TAEGUTEC INDUSTRY 4.0



2022-2023

ROTATING METALCUTTING TOOLS

TaeguTec
Member IMC Group

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I Materials & Grades

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Tool Selection Guide »

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Products Page »

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Alphabetical Index »

All tools are listed in the alphabetical index at the end of the catalogue.

Should you require more information and data from TaeguTec, please contact the nearest TaeguTec Global Service Center or visit our website. www.taegutec.com

THREAD MAKING



THREAD MAKING

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Guide to Icons



› TS-THREAD Holder Page



› Insert Page



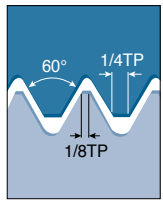
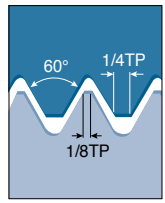
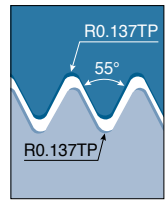
› Cutting Condition Page



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Recommended Cutting Conditions	C62

Tool Selection Guide

Solid carbide threading end mills

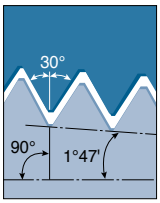
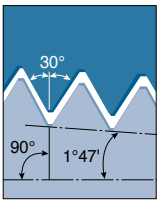
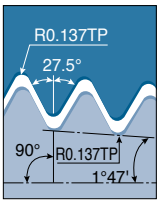
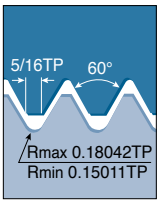
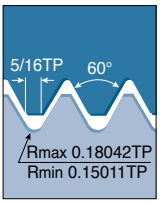
Thread	TS-THREAD		
	Metric ISO	**American UN**	**Whitworth**
			
Application	General usage for all industries	General usage for all industries	General industies. Pipe fittings and couplings
MTEC  General type	● C15	● C21	● C25
MTECB  Internal coolant hole	● C13	● C20	● C25
MTECZ  Internal coolant in the flutes	● C14	● C22	● C25
MTECS  Short head	● C17-C18	● C23	
MTECSH  Short head for hard materials	● C19	● C24	
MTECQ  Reduced neck diameter for deep threading	● C16		
MTECI  Partial profile	● C29	● C29	
MTEC E  External threading	● C16	● C22	

• For correct tool choice and CNC programming, use the 'TS-thread guide' software (Available at www.taegutec.com)

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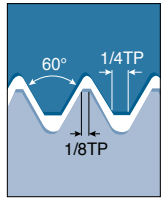
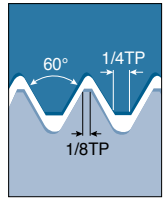
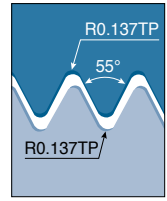
Tool Selection Guide

Solid carbide threading end mills

TS-THREAD				
NPT	**NPTF**	**BSPT**	**UNJ**	**MJ**
				
Steam, gas and water pipes	Steam, gas and water pipes. Dry seal	55° form for steam, gas and water pipes	Aviation and aerospace industry	Aviation and aerospace industry
● C26	● C26	● C27		
● C26		● C27		
	● C26	● C27		
			● C28	● C28

Tool Selection Guide

Indexable insert type

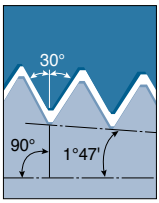
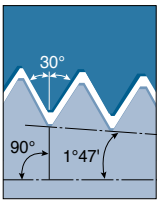
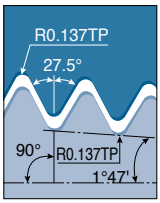
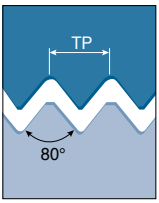
Thread	TS-THREAD		
	Metric ISO	**American UN**	**Whitworth**
			
Insert page	C39, C47	C40, C41, C48	C42, C49
Application	General usage for all industries	General usage for all industries	General industies. Pipe fittings and couplings
MTE D C31  Single insert	●	●	●
MTE D-C C32  Solid carbide shank	●	●	●
MTE D-W C33  Twin insert	●	●	●
TMTSRH C34  Helical end mill	●	●	●
MTF D C35  Large diameter thread	●	●	●
MTFLE D C36  Multi tooth-external threading	●	●	●
TMTSRH C37  Helical shell mill	●	●	●

• For correct tool choice and CNC programming, use the 'TS-thread guide' software (Available at www.taegutec.com)

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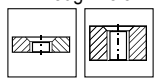
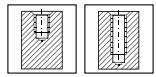
Tool Selection Guide

Indexable insert type

TS-THREAD			
NPT	**NPTF**	**BSPT**	**PG**
			
C43, C49	C44	C45, C50	C46
Steam, gas and water pipes	Steam, gas and water pipes. Dry seal	55˚ form for steam, gas and water pipes	Electrical connector
●	●	●	●
●	●	●	●
●	●	●	●
●	●	●	
●	●	●	●
●	●	●	●
●	●	●	

Tool Selection Guide

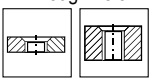
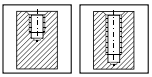
Straight flute with spiral point tap

Series		T-TAP Straight flute with spiral point tap		
		TPH...52B 	**TPH...52B05** 	**TPH...52B10** 
Pages		C56	C57	C58
Coating type		Uncoated	Steam tempered	TiN coated
Chamfer form		Form B 4-5 threads chamfer	Form B 4-5 threads chamfer	Form B 4-5 threads chamfer
Range (ISO metric)	Coarse threads	M2 - M20	M2 - M20	M2 - M20
	Fine threads	M8 - M16	M8 - M16	M8 - M16
Tolerance		ISO 2-6H	ISO 2-6H	ISO 2-6H
Material	P	○	●	●
	M		●	●
	K	○	○	○
	N	●	○	○
	S			○
Application	Through hole  (2xTDZ) (3xTDZ)	●	●	●
	Blind hole  (2xTDZ) (3xTDZ)			

● Recommended, ○ Suitable

Tool Selection Guide

40° right hand spiral flute tap

Series		T-TAP 40° right hand spiral flute tap		
		TPH...54C 	**TPH...54C05** 	**TPH...54C10** 
Pages		C59	C60	C61
Coating type		Uncoated	Steam tempered	TiN coated
Chamfer form		Form C 2-3 threads chamfer	Form C 2-3 threads chamfer	Form C 2-3 threads chamfer
Range (ISO metric)	Coarse threads	M2 - M20	M2 - M20	M2 - M20
	Fine threads	M8 - M16	M8 - M16	M8 - M16
Tolerance		ISO 2-6H	ISO 2-6H	ISO 2-6H
Material	P	○	●	●
	M		●	●
	K	○	○	○
	N	●	○	○
	S			○
Application	Through hole  (2xTDZ) (3xTDZ)			
	Blind hole  (2xTDZ) (3xTDZ)	●	●	●

● Recommended, ○ Suitable

TaeguTec

Grades

Thread making grades

Grades	ISO	Characteristics & applications
TT9030 PVD coated	P20 – P40 M20 – M40 S20 – S40	• General machining of steel • General machining of stainless steel • General machining of heat-resistant alloy

TS-THREAD

Thread Milling



Designation System

TS-THREAD

Solid carbide end mill

MTEC	□	06	04	C	14	1.0	ISO	TT9030
1	2	3	4	5	6	7	8	9

1 TaeguTec mill thread

MT - Mill thread
E - End mill
C - Carbide

2 End mill type

B - Axial coolant bore
Z - Coolant hole in the flutes
S - Short head
SH - Short head for threading hard materials
Q - Reduced diameter neck
I - Partial profile

3 Shank diameter

06 6.0 mm
10 10.0 mm

4 Cutting diameter

031 3.1 mm
04 4.0 mm

5 No. of flutes

C - 3 flutes
D - 4 flutes
E - 5 flutes
F - 6 flutes

6 Length of thread (APMX)

10 10.0 mm

7 Thread pitch

0.25-4.0 **mm** (Thread pitch)
72-7 **TPI** (Threads per inch)

8 Thread standard

ISO
UN
W
NPT
NPTF
BSPT
UNJ
MJ

9 Grades

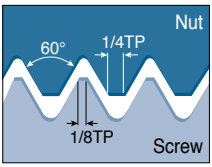
Coated
TT9030
TT1040

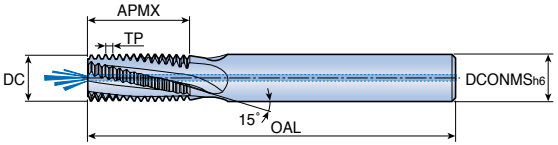
MTECB-ISO

TS-THREAD

Solid carbide threading end mills with internal coolant hole







• Application: General engineering

Designation				TP (mm)	M coarse	M fine	Dimension (mm)				NOF	Grade
							DCONMS	DC	APMX	OAL		TT9030
MTECB	**06038C10**	**0.5**	**ISO**	0.5	-	Ø ≥ 5	6	3.8	10.3	58	3	●
	06031C7	**0.7**	**ISO**	0.7	M4	Ø ≥ 5	6	3.1	7.4	58	3	●
	06045C10	**0.75**	**ISO**	0.75	-	Ø ≥ 6	6	4.5	10.1	58	3	●
	06038C9	**0.8**	**ISO**	0.8	M5	Ø ≥ 6	6	3.8	9.2	58	3	●
	06046C10	**1.0**	**ISO**	1.0	M6	Ø ≥ 7	6	4.6	10.5	58	3	●
	06046C14	**1.0**	**ISO**	1.0	M6	Ø ≥ 7	6	4.6	14.5	58	3	●
	0606C12	**1.0**	**ISO**	1.0	-	Ø ≥ 9	6	6.0	12.5	58	3	●
	0808D16	**1.0**	**ISO**	1.0	-	Ø ≥ 10	8	8.0	16.5	64	4	●
	1010D24	**1.0**	**ISO**	1.0	-	Ø ≥ 12	10	10.0	24.5	73	4	●
	0606C14	**1.25**	**ISO**	1.25	M8	Ø ≥ 10	6	6.0	14.4	58	3	●
	0606C19	**1.25**	**ISO**	1.25	M8	Ø ≥ 10	6	6.0	19.4	58	3	●
	08078C17	**1.5**	**ISO**	1.5	M10	Ø ≥ 12	8	7.8	17.0	64	3	●
	08078C24	**1.5**	**ISO**	1.5	M10	Ø ≥ 12	8	7.8	24.8	64	3	●
	1010D21	**1.5**	**ISO**	1.5	-	Ø ≥ 14	10	10.0	21.8	73	4	●
	1212D26	**1.5**	**ISO**	1.5	-	Ø ≥ 16	12	12.0	26.3	84	4	●
	1616F33	**1.5**	**ISO**	1.5	-	Ø ≥ 20	16	16.0	33.8	105	6	●
	1009C20	**1.75**	**ISO**	1.75	M12	Ø ≥ 12	10	9.0	20.1	73	3	●
	1009C28	**1.75**	**ISO**	1.75	M12	Ø ≥ 12	10	9.0	28.9	73	3	●
	1010C27	**2.0**	**ISO**	2.0	M14	Ø ≥ 15	10	10.0	27.0	73	3	●
	12118D27	**2.0**	**ISO**	2.0	M16	Ø ≥ 17	12	11.8	27.0	84	4	●
	12118D39	**2.0**	**ISO**	2.0	M16	Ø ≥ 17	12	11.8	39.0	105	4	●
	1615E33	**2.5**	**ISO**	2.5	M20	Ø ≥ 22	16	15.0	33.8	105	5	●
	1615E48	**2.5**	**ISO**	2.5	M20	Ø ≥ 22	16	15.0	48.8	105	5	●
	2018D58	**3.0**	**ISO**	3.0	M24	Ø ≥ 25	20	18.0	58.5	120	4	●

Cutting Condition C52-C53

• NOF: Number of flutes

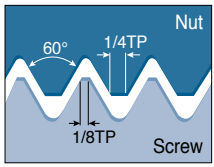
●: Standard items

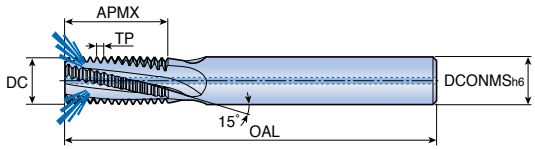
TaeguTec

MTECZ-ISO

Solid carbide with internal coolant in the flutes, for internal threading







• Application: General engineering

Designation				TP (mm)	M coarse	M fine	Dimension (mm)				NOF	Grade TT9030
							DCONMS	DC	APMX	OAL		
MTECZ	**0606C14**	**1.25**	**ISO**	1.25	M8	Ø ≥ 10	6	6.0	14.4	58	3	●
	0606C19	**1.25**	**ISO**	1.25	M8	Ø ≥ 10	6	6.0	19.4	58	3	●
	08078C17	**1.5**	**ISO**	1.5	M10	Ø ≥ 12	8	7.8	17.0	64	3	●
	1010D21	**1.5**	**ISO**	1.5	-	Ø ≥ 14	10	10.0	21.8	73	4	●
	1212D26	**1.5**	**ISO**	1.5	-	Ø ≥ 16	12	12.0	26.3	84	4	●
	1616E33	**1.5**	**ISO**	1.5	-	Ø ≥ 20	16	16.0	33.8	101	5	●
	1009C28	**1.75**	**ISO**	1.75	M12	Ø ≥ 12	10	9.0	28.9	73	3	●
	1010C27	**2.0**	**ISO**	2.0	M14	Ø ≥ 15	10	10.0	27.0	73	3	●
	12118D27	**2.0**	**ISO**	2.0	M16	Ø ≥ 17	12	11.8	27.0	84	4	●

Cutting Condition C52-C53

• NOF: Number of flutes

●: Standard items

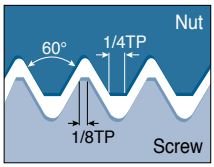
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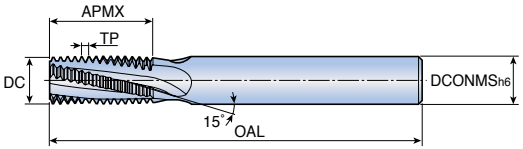
MTEC-ISO

TS-THREAD

Solid carbide threading end mills for internal threading







• Application: General engineering

Designation				TP (mm)	M coarse	M fine	Dimension (mm)				NOF	Grade
							DCONMS	DC	APMX	OAL		TT9030
MTEC	06022C5	0.5	ISO	0.5	M3	Ø ≥ 4	6	2.2	5.3	58	3	●
	06038C10	0.5	ISO	0.5	-	Ø ≥ 5	6	3.8	10.4	58	3	●
	06031C7	0.7	ISO	0.7	M4	Ø ≥ 5	6	3.1	7.4	58	3	●
	06045C10	0.75	ISO	0.75	-	Ø ≥ 6	6	4.5	10.1	58	3	●
	06036C9	0.8	ISO	0.8	M5	Ø ≥ 6	6	3.6	9.2	58	3	●
	0604C10	1.0	ISO	1.0	M6	Ø ≥ 7	6	4.0	10.5	58	3	●
	0604C14	1.0	ISO	1.0	M6	Ø ≥ 7	6	4.0	14.5	58	3	●
	0606C12	1.0	ISO	1.0	-	Ø ≥ 9	6	6.0	12.5	58	3	●
	0808D16	1.0	ISO	1.0	-	Ø ≥ 10	8	8.0	16.5	64	4	●
	0605C14	1.25	ISO	1.25	M8	Ø ≥ 10	6	5.0	14.4	58	3	●
	0605C19	1.25	ISO	1.25	M8	Ø ≥ 10	6	5.0	19.4	58	3	●
	0807C17	1.5	ISO	1.5	M10	Ø ≥ 12	8	7.0	17.3	64	3	●
	0807C24	1.5	ISO	1.5	M10	Ø ≥ 12	8	7.0	24.8	76	3	●
	1010D21	1.5	ISO	1.5	-	Ø ≥ 14	10	10.0	21.8	73	4	●
	1616F33	1.5	ISO	1.5	-	Ø ≥ 20	16	16.0	33.8	105	6	●
	0808C20	1.75	ISO	1.75	M12	Ø ≥ 14	8	8.0	20.1	64	3	●
	0808C28	1.75	ISO	1.75	M12	Ø ≥ 14	8	8.0	28.9	76	3	●
	1010C27	2.0	ISO	2.0	M16	Ø ≥ 17	10	10.0	27.0	73	3	●
	1010C39	2.0	ISO	2.0	M16	Ø ≥ 17	10	10.0	39.0	105	3	●
	1212D27	2.0	ISO	2.0	-	Ø ≥ 18	12	12.0	27.0	84	4	●
	2020F41	2.0	ISO	2.0	-	Ø ≥ 26	20	20.0	41.0	105	6	●
	1414D33	2.5	ISO	2.5	M20	Ø ≥ 22	14	14.0	33.8	84	4	●
	1414D48	2.5	ISO	2.5	M20	Ø ≥ 22	14	14.0	48.8	105	4	●
	1616C40	3.0	ISO	3.0	M24	Ø ≥ 25	16	16.0	40.5	105	3	●
	1616C58	3.0	ISO	3.0	M24	Ø ≥ 25	16	16.0	58.5	120	3	●

Cutting Condition C52-C53

• NOF: Number of flutes

●: Standard items

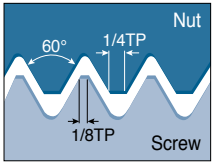
TaeguTec

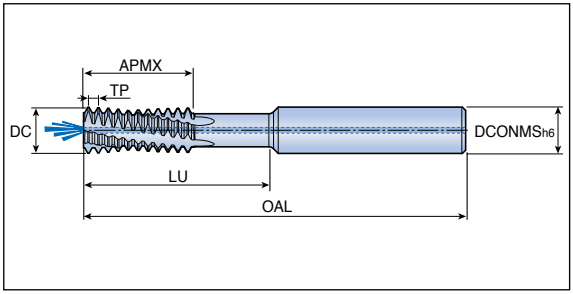
MTECQ-ISO

TS-THREAD

Solid carbide thread end mills with internal coolant holes and a reduced diameter neck for deep internal threading







Designation		TP (mm)	TDZ	Dimension (mm)					NOF	Grade
				DCONMS	DC	APMX	LU	OAL		TT9030
MTECQ	**1010D32 1.0 ISO**	1.0	Ø ≥ 12	10	10.0	18.0	32.0	73	4	●
	1212D38 1.0 ISO	1.0	Ø ≥ 14	12	12.0	21.0	38.0	84	4	●
	1010D30 1.5 ISO	1.5	Ø ≥ 13	10	10.0	18.0	30.0	73	4	●
	2020F56 2.0 ISO	2.0	Ø ≥ 24	20	20.0	34.0	56.0	105	6	●

Cutting Condition C52-C53

- TDZ: Thread diameter size
- NOF: Number of flutes

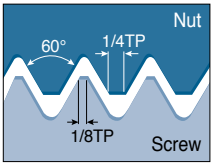
●: Standard items

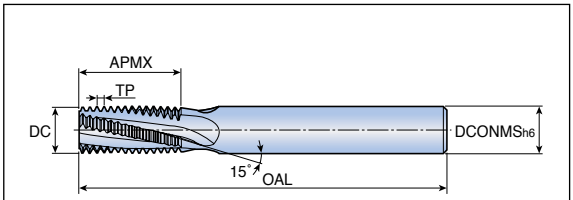
MTEC E-ISO

TS-THREAD

Solid carbide end mills for external threading







- Application: General engineering

Designation		TP (mm)	Dimension (mm)				NOF	Grade
			DCONMS	DC	APMX	OAL		TT9030
MTEC E	**1010D16 1.0 ISO**	1.0	10	10.0	16.5	73	4	●
	1010D16 1.25 ISO	1.25	10	10.0	16.9	73	4	●
	1010D15 1.5 ISO	1.5	10	10.0	15.8	73	4	●
	1212D20 1.5 ISO	1.5	12	12.0	20.3	84	4	●
	1212D21 2.0 ISO	2.0	12	12.0	21.0	84	4	●

Cutting Condition C52-C53

- NOF: Number of flutes

●: Standard items

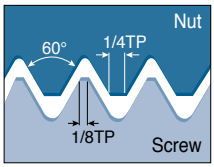
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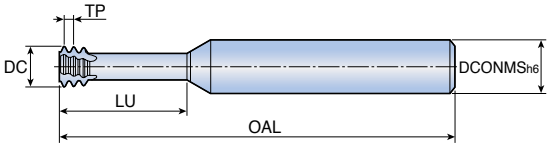
MTECS-ISO

TS-THREAD

Short solid carbide end mills for internal threading







- Thread length up to 2xD
- Application: General engineering

Designation				TP (mm)	TDZ	Dimension (mm)				NOF	Grade
						DCONMS	DC	LU	OAL		TT9030
MTECS	**06016C4**	**0.4**	**ISO**	0.40	M2	6	1.55	4.5	58	3	●
	06017C5	**0.45**	**ISO**	0.45	M2.2	6	1.65	5.0	58	3	●
	0602C5	**0.45**	**ISO**	0.45	M2.5	6	1.95	5.5	58	3	●
	06024C6	**0.5**	**ISO**	0.50	M3	6	2.35	6.5	58	3	●
	06028C7	**0.6**	**ISO**	0.60	M3.5	6	2.75	7.5	58	3	●
	06031C9	**0.7**	**ISO**	0.70	M4	6	3.10	9.0	58	3	●
	06038C12	**0.8**	**ISO**	0.80	M5	6	3.80	12.5	58	3	●
	06047C14	**1.0**	**ISO**	1.00	M6	6	4.65	14.0	58	3	●
	0606C18	**1.25**	**ISO**	1.25	M8	6	5.95	18.0	58	3	●
	0808D25	**0.75**	**ISO**	0.75	M10	8	8.00	25.0	64	4	●
	08078C23	**1.5**	**ISO**	1.50	M10	8	7.80	23.0	64	3	●
	1009C26	**1.75**	**ISO**	1.75	M12	10	9.00	26.0	73	3	●
	12118D35	**2.0**	**ISO**	2.00	M16	12	11.80	35.0	84	4	●
	1615E43	**2.5**	**ISO**	2.50	M20	16	15.00	43.0	105	5	●

Cutting Condition C54

- TDZ: Thread diameter size
- NOF: Number of flutes

●: Standard items

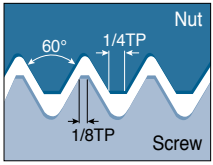
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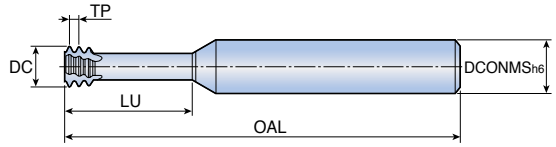
MTECS-ISO

TS-THREAD

Short solid carbide end mills for internal threading







- Thread length up to 3xD
- Application: General engineering

Designation				TP (mm)	TDZ	Dimension (mm)				NOF	Grade
						DCONMS	DC	LU	OAL		TT9030
MTECS	**03007C2**	**0.25**	**ISO**	0.25	M1.0	3	0.72	2.5	39	3	●
	03009C3	**0.25**	**ISO**	0.25	M1.2	3	0.90	3.0	39	3	●
	03011C4	**0.3**	**ISO(1)**	0.30	M1.4	3	1.05	4.0	39	3	●
	03012C5	**0.35**	**ISO(1)**	0.35	M1.6	3	1.20	5.0	39	3	●
	03016C6	**0.4**	**ISO(1)**	0.40	M2	3	1.55	6.0	39	3	●
	0602C7	**0.45**	**ISO**	0.45	M2.5	6	1.95	7.5	58	3	●
	06024C9	**0.5**	**ISO**	0.50	M3	6	2.35	9.5	58	3	●
	06028C10	**0.6**	**ISO**	0.60	M3.5	6	2.75	10.5	58	3	●
	06031C12	**0.7**	**ISO**	0.70	M4	6	3.10	12.5	58	3	●
	06038C16	**0.8**	**ISO**	0.80	M5	6	3.80	16.0	58	3	●
	06047C20	**1.0**	**ISO**	1.00	M6	6	4.65	20.0	58	3	●
	0606C24	**1.25**	**ISO**	1.25	M8	6	5.95	24.0	58	3	●

Cutting Condition C54

- TDZ: Thread diameter size
- NOF: Number of flutes
- (1) Specially designed for the production of dental implants

●: Standard items

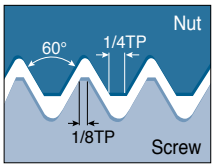
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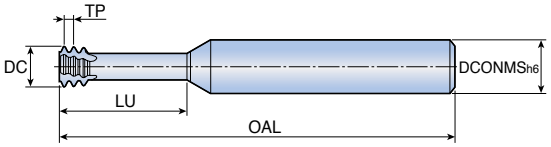
MTECSH-ISO

TS-THREAD

Short solid carbide end mills for internal threading of hardened steel







- Left-hand tools (CNC code M04)
- Application: General engineering

Designation				TP (mm)	TDZ	Dimension (mm)				NOF	Grade
						DCONMS	DC	LU	OAL		TT1040
MTECSH	**03011C4**	**0.3**	**ISO**	0.30	M1.4	3	1.05	4.0	39	3	●
	03012C5	**0.35**	**ISO**	0.35	M1.6	3	1.20	4.8	39	3	●
	03016C6	**0.4**	**ISO**	0.40	M2	3	1.55	6.0	58	3	●
	06016C4	**0.4**	**ISO**	0.40	M2	6	1.55	4.5	58	3	●
	06017C5	**0.45**	**ISO**	0.45	M2.2	6	1.65	5.0	58	3	●
	0602C5	**0.45**	**ISO**	0.45	M2.5	6	1.95	5.5	58	3	●
	0602C7	**0.45**	**ISO**	0.45	M2.5	6	1.95	7.5	58	3	●
	06024C6	**0.5**	**ISO**	0.50	M3	6	2.35	6.5	58	3	●
	06024C9	**0.5**	**ISO**	0.50	M3	6	2.35	9.5	58	3	●
	06028C7	**0.6**	**ISO**	0.60	M3.5	6	2.75	7.5	58	3	●
	06031C9	**0.7**	**ISO**	0.70	M4	6	3.10	9.0	58	3	●
	06031C12	**0.7**	**ISO**	0.70	M4	6	3.10	12.5	58	3	●
	06038C12	**0.8**	**ISO**	0.80	M5	6	3.80	12.5	58	3	●
	06038C16	**0.8**	**ISO**	0.80	M5	6	3.80	16.0	58	3	●
	06047C14	**1.0**	**ISO**	1.00	M6	6	4.65	14.0	58	3	●
	06047C20	**1.0**	**ISO**	1.00	M6	6	4.65	20.0	58	3	●
	0606C18	**1.25**	**ISO**	1.25	M8	6	5.95	18.0	58	3	●
	0606C24	**1.25**	**ISO**	1.25	M8	6	5.95	24.0	58	3	●
	08078C23	**1.5**	**ISO**	1.50	M10	8	7.80	23.0	64	3	●
	1009C26	**1.75**	**ISO**	1.75	M12	10	9.00	26.0	73	3	●
	12118D35	**2.0**	**ISO**	2.00	M16	12	11.80	35.0	84	4	●

Cutting Condition C54

- TDZ: Thread diameter size
- NOF: Number of flutes

●: Standard items

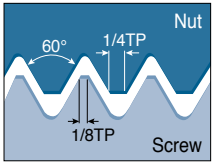
TaeguTec

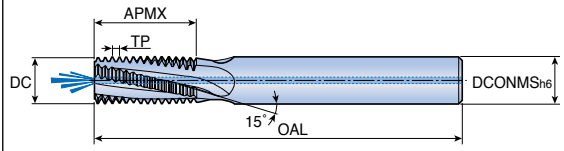
MTECB-UN

TS-THREAD

Solid carbide end mills for internal threading with internal coolant hole







• Application: General engineering

	Designation	TPI	UNC	UNF	UNEF	Dimension (mm)				NOF	Grade
						DCONMS	DC	APMX	OAL		TT9030
MTECB	**06032C6 32 UN**	32	8	10	12	6	3.2	6.8	58	3	●
	0605C11 28 UN	28	-	1/4	-	6	5.0	11.3	58	3	●
	08066C14 24 UN	24	-	5/16	-	8	6.6	14.3	64	3	●
	0808D21 24 UN	24	-	3/8	9/16-5/8	8	8.0	20.6	64	4	●
	0808C21 20 UN	20	-	7/16	-	8	8.0	21.0	64	3	●
	1010D22 20 UN	20	-	1/2	-	10	10.0	22.3	73	4	●
	06056C14 18 UN	18	5/16	-	-	6	5.6	14.8	58	3	●
	12113D26 18 UN	18	-	9/16-5/8	1 1/8-1 5/8	12	11.3	26.1	84	4	●
	08067C16 16 UN	16	3/8	-	-	8	6.7	16.7	64	3	●
	10092C22 13 UN	13	1/2	-	-	10	9.2	22.5	73	3	●
	12114C28 11 UN	11	5/8	-	-	12	11.4	28.9	84	3	●
	16144D34 10 UN	10	3/4	-	-	16	14.4	34.3	105	4	●
	20195D42 8 UN	8	1	-	-	20	19.5	42.9	105	4	●

Cutting Condition C52-C53

• NOF: Number of flutes

●: Standard items

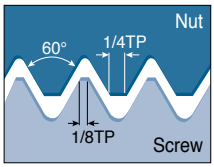
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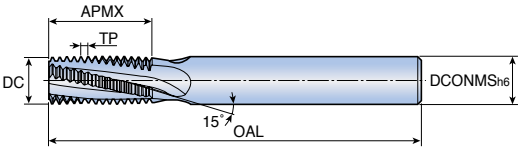
MTEC-UN

TS-THREAD

Solid carbide threading end mills with internal threading







• Application: General engineering

Designation			TPI	UNC	UNF	UNEF	Dimension (mm)				NOF	Grade
							DCONMS	DC	APMX	OAL		TT9030
MTEC	06032C6	32 UN	32	8	10	12	6	3.2	6.8	58	3	●
	0604C11	28 UN	28	-	1/4	-	6	4.0	11.3	58	3	●
	0605C14	24 UN	24	-	5/16	-	6	5.0	14.8	58	3	●
	0807C21	24 UN	24	-	3/8	9/16-5/8	8	7.0	20.0	64	3	●
	06045C12	20 UN	20	1/4	-	-	6	4.5	12.1	58	3	●
	0807C21	20 UN	20	-	7/16-1/2	-	8	7.0	20.0	64	3	●
	1212E27	20 UN	20	-	-	3/4-1	12	12.0	27.3	84	5	●
	0605C14	18 UN	18	5/16	-	-	6	5.0	14.8	58	3	●
	1010D26	18 UN	18	-	9/16-5/8	1 1/8-1 5/8	10	10.0	26.1	73	4	●
	0606C16	16 UN	16	3/8	-	-	6	6.0	16.7	58	3	●
	1212D31	16 UN	16	-	3/4	-	12	12.0	30.0	84	4	●
	1615E37	14 UN	14	-	7/8	-	16	15.0	37.2	105	5	●
	0808C22	13 UN	13	1/2	-	-	8	8.0	22.5	64	3	●
	1010C26	12 UN	12	9/16	-	-	10	10.0	26.5	73	3	●
	1616E41	12 UN	12	-	1 -1 1/2	-	16	16.0	41.3	105	5	●
	1010C28	11 UN	11	5/8	-	-	10	10.0	28.9	73	3	●
	1212C34	10 UN	10	3/4	-	-	12	12.0	34.3	84	3	●
	1616C42	8 UN	8	1	-	-	16	16.0	42.9	105	3	●

Cutting Condition
C52-C53

• NOF: Number of flutes

●: Standard items

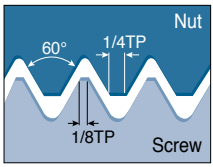
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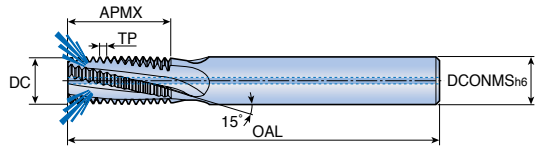
MTECZ-UN

TS-THREAD

Solid carbide with internal coolant in the flutes for internal threading







• Application: General engineering

Designation		TPI	UNC	UNF	UNEF	Dimension (mm)				NOF	Grade
						DCONMS	DC	APMX	OAL		TT9030
MTECZ	**1010D22 20 UN**	20	-	1/2	-	10	10.0	22.3	73	4	●
	12113D26 18 UN	18	-	9/16-5/8	1 1/8-1 5/8	12	11.3	26.1	84	4	●
	08067C16 16 UN	16	3/8	-	-	8	6.7	16.7	64	3	●
	10092C22 13 UN	13	1/2	-	-	10	9.2	22.5	73	3	●

Cutting Condition C52-C53

• NOF: Number of flutes

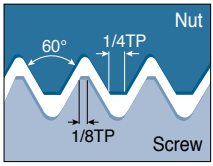
●: Standard items

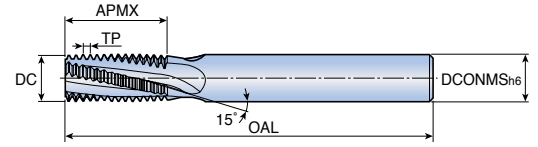
MTEC E-UN

TS-THREAD

Solid carbide end mills for external threading







• Application: General engineering

Designation		TPI	Dimension (mm)				NOF	Grade
			DCONMS	DC	APMX	OAL		TT9030
MTEC E	**1010D16 24 UN**	24	10	10.0	16.4	73	4	●

Cutting Condition C52-C53

• NOF: Number of flutes

●: Standard items

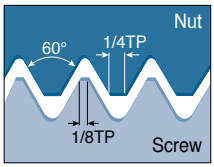
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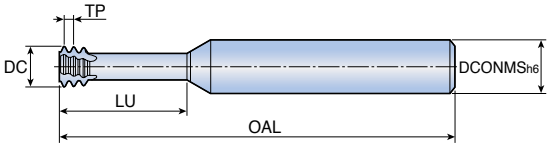
MTECS-UN

TS-THREAD

Short solid carbide end mills for internal threading







• Application: General engineering

Designation			TPI	UNC	UNF	Dimension (mm)				NOF	Grade
						DCONMS	DC	LU	OAL		TT9030
MTECS	**06019C5**	**48 UN**	48	3	4	6	1.90	5.2	58	3	●
	06021C6	**40 UN**	40	4	-	6	2.10	6.3	58	3	●
	06033C9	**36 UN**	36	-	8	6	3.30	9.0	58	3	●
	06025C7	**32 UN**	32	6	-	6	2.55	7.1	58	3	●
	06032C9	**32 UN**	32	8	-	6	3.20	9.5	58	3	●
	06037C10	**32 UN**	32	-	10	6	3.70	10.5	58	3	●
	0605C14	**28 UN**	28	-	1/4	6	5.00	14.5	58	3	●
	08066C17	**24 UN**	24	-	5/16, 3/8	8	6.60	17.0	58	3	●
	06047C14	**20 UN**	20	1/4	-	6	4.75	14.0	58	3	●
	0606C17	**18 UN**	18	5/16	-	6	6.00	17.0	58	3	●
	1212D35	**18 UN**	18	-	5/8	12	12.00	35.0	84	4	●
	08067C22	**16 UN**	16	3/8	-	8	6.70	22.0	64	3	●
	10092C27	**13 UN**	13	1/2	-	10	9.20	27.5	73	3	●
	12114C34	**11 UN**	11	5/8	-	12	11.40	34.5	84	3	●
	06032C12	**32 UN**	32	8	-	6	3.20	12.5	58	3	●
	06025C10	**32 UN**	32	6	-	6	2.55	10.5	58	3	●
	0605C19	**28 UN**	28	-	1/4	6	5.00	19.0	58	3	●
	06047C19	**20 UN**	20	1/4	-	6	4.75	19.0	58	3	●
	0606C23	**18 UN**	18	5/16	-	6	6.00	23.0	58	3	●

Cutting Condition C54

• NOF: Number of flutes

●: Standard items

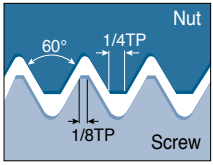
TaeguTec

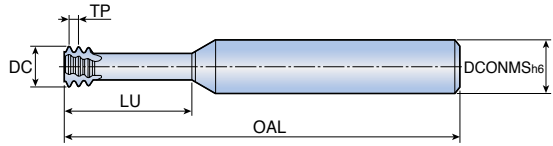
MTECSH-UN

TS-THREAD

Short solid carbide end mills for internal threading of hardened steel







- Left-hand tools (CNC code M04)
- Application: General engineering

Designation		TPI	UNC	UNF	Dimension (mm)				NOF	Grade
					DCONMS	DC	LU	OAL		TT1040
MTECSH	**06019C5 48 UN**	48	3	4	6	1.90	5.2	58	3	●
	06021C6 40 UN	40	4	-	6	2.10	6.3	58	3	●
	06037C10 32 UN	32	-	10	6	3.70	10.5	58	3	●
	0605C14 28 UN	28	-	1/4	6	5.00	14.5	58	3	●
	06035C10 24 UN	24	10,12	-	6	3.50	10.6	58	3	●
	08066C17 24 UN	24	-	5/16	8	6.60	17.0	64	3	●
	0808C25 20 UN	20	-	7/16	8	8.00	25.0	64	3	●
	08067C22 16 UN	16	3/8	-	8	6.70	22.0	64	3	●
	10092C27 13 UN	13	1/2	-	10	9.20	27.5	73	3	●
	06037C15 32 UN	32	-	10	6	3.70	15.0	58	3	●
	0605C19 28 UN	28	-	1/4	6	5.00	19.0	58	3	●
	08066C24 24 UN	24	-	5/16	8	6.60	24.0	64	3	●
	06047C19 20 UN	20	1/4	-	6	4.75	19.0	58	3	●
	0606C23 18 UN	18	5/16	-	6	6.00	23.0	58	3	●

Cutting Condition C54

- NOF: Number of flutes

●: Standard items

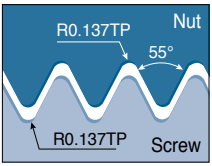
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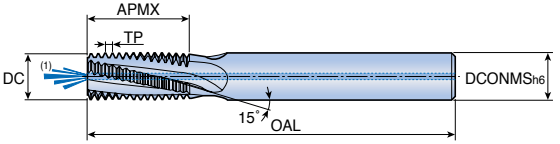
MTECB-W / MTECZ-W / MTEC-W

TS-THREAD

Solid carbide threading end mills with internal coolant hole









• Application: General engineering, fittings and pipe couplings

	Designation	TPI	TDZ	Dimension (mm)				NOF	Grade
				DCONMS	DC	APMX	OAL		TT9030
MTECB	**08078C14 28 W**	28	G1/8	8	7.8	14.1	64	3	●
	1010D16 19 W	19	G1/4-3/8	10	10.0	16.7	73	4	●
	1616E26 14 W	14	G1/2-7/8	16	16.0	26.3	105	5	●
	1616D38 11 W	11	G ≥ 1	16	16.0	38.1	105	4	●
	2020E47 11 W	11	G ≥ 1	20	20.0	47.3	105	5	●
MTECZ	**08078C14 28 W**	28	G1/8	8	7.8	14.1	64	3	●
	1010D16 19 W	19	G1/4-3/8	10	10.0	16.7	73	4	●
	10086D24 12 W	12	-	10	8.6	24.4	73	4	●
	12109D28 11 W	11	-	12	10.9	28.9	84	4	●
	1616D38 11 W	11	G	16	16.0	38.1	101	4	●
	1616E26 14 W	14	G1/2-7/8	16	16.0	26.3	101	5	●
MTEC	**0606C9 28 W**	28	G1/8	6	6.0	9.5	58	3	●
	0808C14 19 W	19	G1/4-3/8	8	8.0	14.0	64	3	●
	1212D19 14 W	14	G1/2-7/8	12	12.0	19.0	84	4	●
	1212D26 14 W	14	G1/2-7/8	12	12.0	26.3	84	4	●
	1212C24 11 W	11	G1-1 1/2	12	12.0	24.2	84	3	●
	1616D38 11 W	11	G1-3	16	16.0	38.1	105	4	●

Cutting Condition C52-C53

- TDZ: Thread diameter size
- NOF: Number of flutes
- (1) B type (2) Z type

●: Standard items

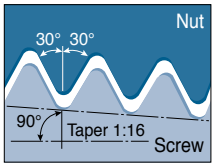
TaeguTec

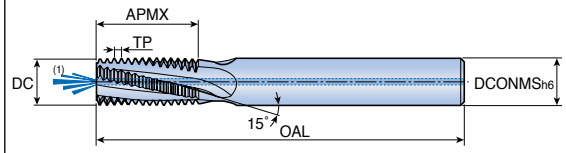
MTECB-NPT / MTEC-NPT

TS-THREAD

Solid carbide end mills for internal or external threading







• Application: Steam, gas and water pipes

Designation				TPI	TDZ	Dimension (mm)				NOF	Grade
						DCONMS	DC	APMX	OAL		TT9030
MTECB	**08076C10**	**27**	**NPT**	27	1/8	8	7.6	10.8	64	3	●
	1010D16	**18**	**NPT**	18	1/4-3/8	10	10.0	16.2	73	4	●
	16155D22	**14**	**NPT**	14	1/2-3/4	16	15.5	22.7	105	4	●
MTEC	**0606C9**	**27**	**NPT**	27	1/8	6	6.0	9.9	58	3	●
	0808C14	**18**	**NPT**	18	1/4-3/8	8	8.0	14.8	64	3	●
	1212D20	**14**	**NPT**	14	1/2-3/4	12	12.0	20.9	84	4	●
	1616D27	**11.5**	**NPT**	11.5	1-2	16	16.0	27.6	105	4	●

●: Standard items

Cutting Condition C52-C53

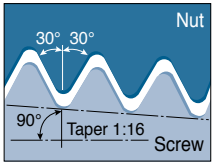
• TDZ: Thread diameter size
• NOF: Number of flutes
• (1) B type

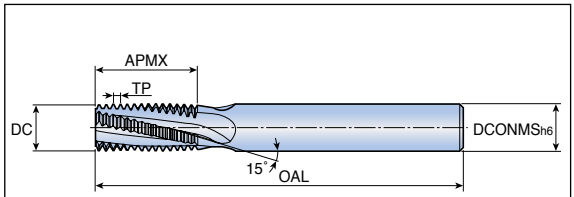
MTECZ-NPTF / MTEC-NPTF

TS-THREAD

Solid carbide end mills for internal or external threading







• Application: General engineering, fittings and pipe couplings

Designation				TPI	TDZ	Dimension (mm)				NOF	Grade
						DCONMS	DC	APMX	OAL		TT9030
MTECZ	**1010D16**	**18**	**NPTF**	18	1/4-3/8	10	10.0	16.2	73	4	●
MTEC	**0606C9**	**27**	**NPTF**	27	1/8	6	6.0	9.9	58	3	●
	0808C14	**18**	**NPTF**	18	1/4-3/8	8	8.0	14.8	64	3	●
	1212D20	**14**	**NPTF**	14	1/2-3/4	12	12.0	20.9	84	4	●

●: Standard items

Cutting Condition C52-C53

• TDZ: Thread diameter size
• NOF: Number of flutes
• (1) Z type

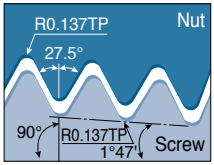
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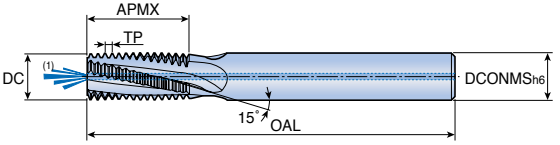
MTECB-BSPT / MTECZ-BSPT / MTEC-BSPT

TS-THREAD

Solid carbide end mills for internal or external threading







• Application: General engineering, fittings and pipe couplings



Designation			TPI	TDZ	Dimension (mm)				NOF	Grade
					DCONMS	DC	APMX	OAL		TT9030
MTECB	**1010D16**	**19 BSPT**	19	RC1/4-3/8	10	10.0	16.7	73	4	●
	1616E26	**14 BSPT**	14	RC1/2-7/8	16	16.0	26.3	105	4	●
MTECZ	**1010D16**	**19 BSPT**	19	RC1/4-3/8	10	10.0	16.7	73	4	●
MTEC	**0606C9**	**28 BSPT**	28	RC1/8	6	6.0	9.5	58	3	●
	0808C14	**19 BSPT**	19	RC1/4-3/8	8	8.0	14.0	64	3	●
	1212D19	**14 BSPT**	14	RC1/2-7/8	12	12.0	19.1	84	4	●
	1616D28	**11 BSPT**	11	RC1-2	16	16.0	28.9	105	4	●

Cutting Condition
C52-C53

• TDZ: Thread diameter size
• NOF: Number of flutes
• (1) B type (2) Z type

●: Standard items

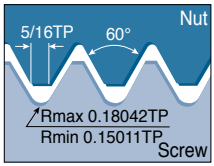
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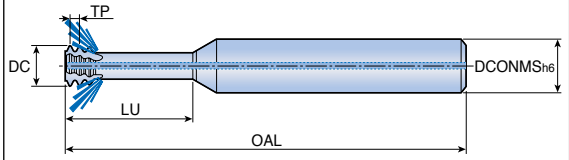
MTECS-MJ / MTECS-UNJ

TS-THREAD

Thread mills for internal MJ and UNJ threads with coolant holes directed to the cutting edges







• For applications requiring high fatigue strength in the aerospace and automotive industries

Designation					TP (mm)	TPI	MJ size	UNJC	UNJF	Dimension (mm)				NOF	Grade
										DCONMS	DC	LU	OAL		TT9030
MTECS	**06039C12**	**0.8**	**MJ**(1)		0.8	-	MJ5	-	-	6	3.90	12.5	58	3	●
	06048C15	**1.0**	**MJ**(1)		1.0	-	MJ6	-	-	6	4.80	15.0	58	3	●
	08061C20	**1.25**	**MJ**		1.25	-	MJ8	-	-	8	6.10	20.0	64	3	●
	0808C25	**1.5**	**MJ**		1.5	-	MJ10	-	-	8	8.00	25.0	64	3	●
	1010C35	**2.0**	**MJ**		2.0	-	MJ14, MJ16	-	-	10	10.00	35.0	73	3	●
MTECS	**06033C10**	**32**	**UNJ**(1)		-	32	-	8	10	6	3.30	10.5	58	3	●
	08051C16	**28**	**UNJ**		-	28	-	-	1/4	8	5.10	16.0	64	3	●
	08069C24	**16**	**UNJ**		-	16	-	3/8	-	8	6.90	24.0	64	3	●

Cutting Condition C54

• NOF: Number of flutes
• (1) Without coolant holes

●: Standard items

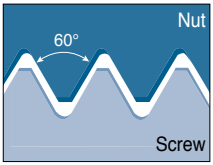
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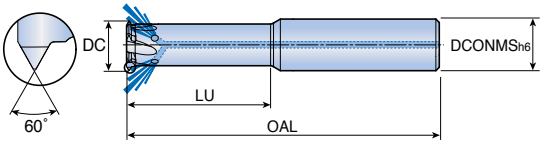
MTECI-60º

TS-THREAD

Partial profile solid carbide thread mills with coolant holes directed to the cutting edges for internal and external threads







• Application: General engineering

Designation		TP (mm)	TPI	TDZ	Dimension (mm)				NOF	Grade
					DCONMS	DC	LU	OAL		TT9030
MTECI	**0605D20 A60**	Int. 0.5-0.8 Ext. 0.4-0.8	56-28 64-32	Ø ≥ 6	6	5.0	20	58	4	●
	0808D30 A60	Int. 1.0-1.75 Ext. 0.8-1.5	28-14 32-16	Ø ≥ 10	8	8.0	30	64	4	●
	1010D35 A60			Ø ≥ 12	10	10.0	35	73	4	●
	1212E39 A60			Ø ≥ 14	12	12.0	39	84	5	●
	1212E40 A60	Int. 2.3-3.0 Ext. 1.75-2.5	23-8 15-10	Ø ≥ 16	12	12.0	40	84	5	●
	1614E45 A60			Ø ≥ 18	16	16.0	45	101	5	●
	1616E50 A60			Ø ≥ 20	16	16.0	50	101	5	●

Cutting Condition
C52-C53

• TDZ: Thread diameter size
• NOF: Number of flutes

●: Standard items

TaeguTec

Tool Designation System

TS-THREAD

End mills

MT	E	D25	-	1	-	W	20	(C)	-	21
1	2	3		4		5	6	7		8

1 Mill thread

M - Mill
T - Thread

2 Tool type

E - End mills type

3 Cutting diameter

D25 - 25.0mm

4 Number of insert

1 1 insert
2 2 inserts

5 Shank type

W - Weldon shank
C - Cylindrical type

6 Shank diameter

20 - 20.0mm

7 Shank material

C Carbide shank

8 Insert size (APMX)

12 12.0 mm
14 14.0 mm
21 21.0 mm
30 30.0 mm
40 40.0 mm

Cutters

MT	F	D063	-	5	-	22	-	21
1	2	3		4		5		6

1 Mill thread

M - Mill
T - Thread

2 Tool type

F - Facemill type

3 Cutting diameter

D063 - 63.0mm

4 Number of insert

4 4 inserts
5 5 inserts

5 Bore diameter

22 22.0 mm
27 27.0 mm
32 32.0 mm

6 Insert size (APMX)

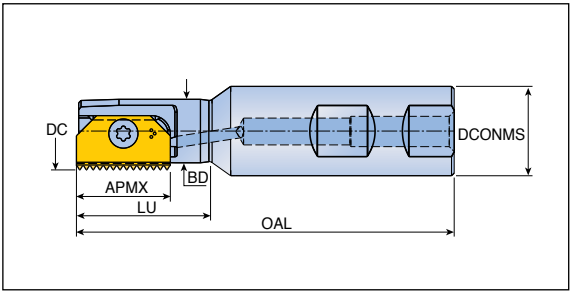
21 21.0 mm
30 30.0 mm
40 40.0 mm

MTE D-1

TS-THREAD

Indexable threading end mills - Weldon shank





Designation		Dimension (mm)						Shank	Kg	Insert
		APMX	DC	DCONMS	BD	LU	OAL			
MTE	D09.5-1-W20-12 (1)	12	9.5	20	7.5	15.5	85	W	0.16	TTMT12
	D09.9-1-W20-12	12	9.9	20	7.5	16.0	85	W	0.16	TTMT12
	D12.2-1-W20-14	14	12.2	20	8.8	20.0	75	W	0.15	TTMT14
	D14.5-1-W20-14	14	14.5	20	10.8	27.1	85	W	0.16	TTMT14
	D17.0-1-W20-14	14	17.0	20	12.8	30.0	85	W	0.23	TTMT14
	D18-1-W20-21 (2)	21	18.5	20	14.2	30.0	85	W	0.20	TTMT21
	D21-1-W20-21	21	21.0	20	15.9	40.0	94	W	0.23	TTMT21
	D25-1-W20-21	21	25.0	20	20.0	61.0	115	W	0.24	TTMT21
	D29-1-W25-30	30	29.0	25	22.2	50.0	110	W	0.32	TTMT30
	D31-1-W25-30	30	31.0	25	25.0	90.0	150	W	0.60	TTMT30
	D38-1-W32-30	30	38.0	32	32.0	86.0	150	W	0.90	TTMT30
	D48-1-W40-40	40	48.0	40	35.0	78.0	153	W	1.30	TTMT40
	D48-1-W40-40-B	40	48.0	40	36.5	138.0	210	W	1.50	TTMT40

- Minimum bore should be one-third larger than DC (diameter)
- All end mills are equipped with a bore for internal coolant
- (1) Not suitable for inserts: TTMT12 18 NPT, TTMT12 18 NPTF, TTMT12 19 BSPT
- (2) Not suitable for inserts: TTMT21 I 3.50 ISO, TTMT21 I 7 UN, TTMT21 11.5 NPT, TTMT21 11.5 NPTF

Spare parts

Designation	Screw	Wrench	Wrench handle	
				
MTE D...12	SR M2.5-T8-MT	BLD T08/M7	SW4-SD	-
MTE D...14	S11	BLD T08/M7	SW4-SD	-
MTE D...21	SR M4-IP15-MT	BLD IP15/S7	SW6-SD	-
MTE D...30/40(-B)	SR M5-IP25-MT	BLD IP25/S7	-	SW6-T

C39-C46

Cutting Condition C51

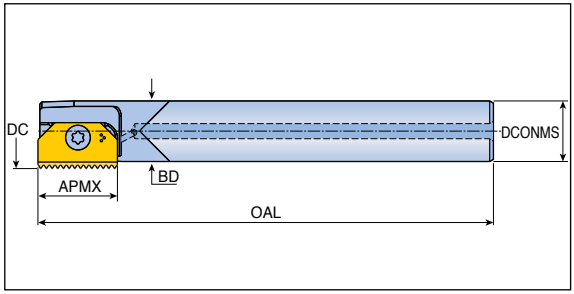
TaeguTec

MTE D-1-C

TS-THREAD

Indexable threading end mills - Cylindrical carbide shank





Designation		Dimension (mm)					Shank	Kg	Insert
		APMX	DC	DCONMS	BD	OAL			
MTE	**D09.9-1-C08C-12**	12	9.9	8	8	127.0	C	0.10	TTMT12
	D13.7-1-C10C-14	14	13.7	10	10	110.0	C	0.12	TTMT14
	D13.7-1-C10C-14-B	14	13.7	10	10	153.5	C	0.17	TTMT14
	D15.2-1-C12C-14	14	15.2	12	12	182.3	C	0.30	TTMT14
	D21-1-C16C-21	21	21.0	16	16	130.0	C	0.35	TTMT21
	D21-1-C16C-21-B	21	21.0	16	16	206.3	C	0.50	TTMT21
	D27-1-C20C-30	30	27.0	20	20	263.0	C	1.20	TTMT30

• For holders with long overhang, reduce the cutting speed and feed rate, between 20 to 40% (depending on workpiece, material, pitch and overhang)

Spare parts

Designation	Screw	Wrench	Wrench handle	
MTE D...C...12	SR M2.5-T8-MT	BLD T08/M7	SW4-SD	-
MTE D...C...14(-B)	S11	BLD T08/M7	SW4-SD	-
MTE D...C...21(-B)	SR M4-IP15-MT	BLD IP15/S7	SW6-SD	-
MTE D...C...30	SR M5-IP25-MT-S	BLD IP25/S7	-	SW6-T

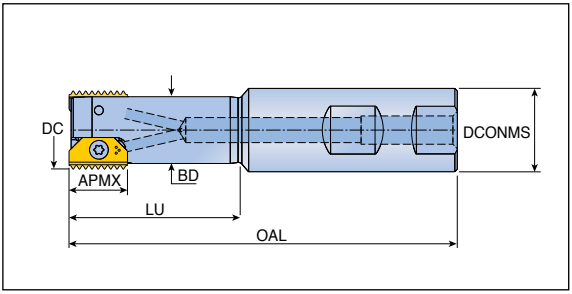
C39-C46 | Cutting Condition C51

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MTE D-2

Double insert thread milling end mills - Weldon shank





Designation	Dimension (mm)						Shank	Kg	Insert
	APMX	DC	DCONMS	BD	LU	OAL			
MTE **D20.0-2-W20-14**	14	20	20	16	41	93	W	0.20	TTMT14
D30-2-W25-21	21	30	25	24	52	108	W	0.40	TTMT21
D40-2-W32-30	30	40	32	30	70	130	W	0.70	TTMT30
D50-2-W40-40	40	50	40	38	78	153	W	0.80	TTMT40

- Minimum bore should be one-third larger than DC (diameter)
- All end mills are equipped with a bore for internal coolant

Spare parts

Designation	Screw	Wrench	Wrench handle	
MTE D...W...14	S11	BLD T08/M7	SW4-SD	-
MTE D...W...21	SR M4-IP15-MT	BLD IP15/S7	SW6-SD	-
MTE D...W...30/40	SR M5-IP25-MT	BLD IP25/S7	-	SW6-T

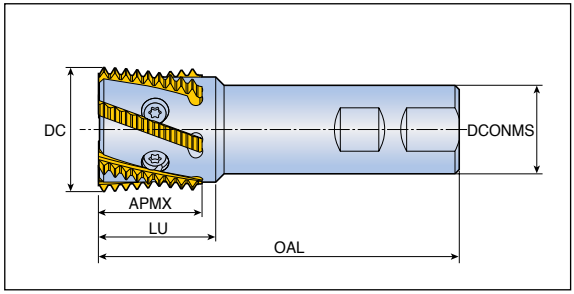
C39-C46
Cutting Condition C51

TMTSRH

TS-THREAD

End mills with coolant holes for helical threading inserts - Weldon shank



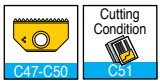


Designation		NOF	Dimension (mm)					Kg	Insert
			APMX	DC	DCONMS	LU	OAL		
TMTSRH	**23-2-N**	2	27	23	25	50	110	0.30	TMTH 23
	32-5-N	5	32	32	32	60	130	0.65	TMTH 32
	45-6-N	6	37	45	32	41	130	0.88	TMTH 45

- All end mills are equipped with a bore for internal coolant
- NOF: Number of flutes

Spare parts

Designation	Screw	Wrench		
				
TMTSRH 23	TS23	TK21		
TMTSRH 32	TS32	TK22		
TMTSRH 45	TS45	TK40		



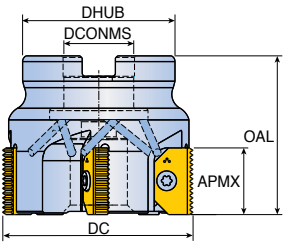
ADVANCE MACHINING
TaeguTec Industry 4.0

MTF D

TS-THREAD

Multi-insert shell mills for large diameter threading





	Designation	CICT	Dimension (mm)					Kg	Insert
			APMX	DC	DHUB	DCONMS	OAL		
MTF	**D063-5-22-21**	5	21	63	40	22	50	0.70	TTMT21
	D063-4-22-30	4	30	63	48	22	50	0.60	TTMT30
	D080-4-27-30	4	30	80	60	27	50	1.22	TTMT30
	D080-4-27-40	4	40	80	60	27	65	1.22	TTMT30
	D100-4-32-30	4	30	100	78	32	50	1.29	TTMT40
	D100-4-32-40	4	40	100	78	32	65	1.22	TTMT40

- All shell mills are equipped with a bore for internal coolant
- CICT: Number of inserts

Spare parts

Designation	Screw	Screw 1	Wrench	Wrench handle	
MTF D063...21	SR M4-IP15-MT	SR M10X25 DIN912	BLD IP15/S7	SW6-SD	-
MTF D063...30	SR M5-IP25-MT	SR M10X25 DIN912	BLD IP25/S7	-	SW6-T
MTF D080...30/40	SR M5-IP25-MT	SR M12X25	BLD IP25/S7	-	SW6-T
MTF D100...30/40	SR M5-IP25-MT	SR M16X30 DIN912	BLD IP25/S7	-	SW6-T

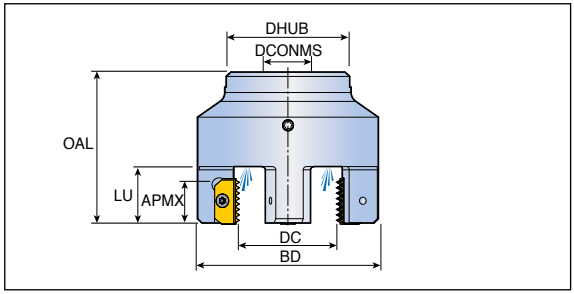
C39-C46
Cutting Condition C51

MTFLE D

TS-THREAD

External multi-tooth threading shell mills





Designation		CICT	Dimension (mm)							Kg	Insert
			APMX	DC	BD	DHUB	DCONMS	LU	OAL		
MTFLE	**D20-3-22-21**	3	21	20	58.2	48	22	27	63	0.70	TTMT21 E
	D30-3-22-21	3	21	30	68.2	48	22	27	63	0.90	TTMT21 E
	D45-4-27-21	4	21	45	83.2	60	27	27	67	1.40	TTMT21 E

- All shell mills are equipped with a bore for internal coolant
- CICT: Number of inserts

Spare parts

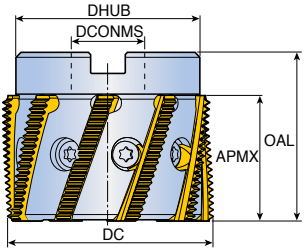
Designation	Screw	Wrench	Wrench handle	
MTFLE D...21	SR M4-IP15-MT	BLD IP15/S7	SW6-SD	

C39-C46 | Cutting Condition C51

TMTSRH

Helical shell mill for large thread diameters





Designation		NOF	Dimension (mm)					Kg	Insert
			APMX	DC	DHUB	DCONMS	OAL		
TMTSRH	**32-5M-N**	5	32	32	26.0	16	52	0.15	TMTH 32
	45-6M-N	6	37	45	38.0	22	60	0.30	TMTH 45
	63-9-N	9	38	63	51.7	22	50	0.66	TMTH 63

- All shell mills are equipped with a bore for internal coolant
- NOF: Number of flutes

Spare parts

Designation	Screw	Wrench		
				
TMTSRH 32	TS32S	TK22		
TMTSRH 45	TS45S	TK40		
TMTSRH 63	TS63	TK40		





TaeguTec

Insert Designation System

Thread milling inserts

TTMT(H)	30	E	1.5	ISO	TT9030
1	2	3	4	5	6

1 TaeguTec mill thread

TT - TaeguTec
M - Mill
T - Thread
H - Helical insert

2 Insert size (INSL)

12 12.0 mm
14 14.0 mm
21 21.0 mm
30 30.0 mm
40 40.0 mm



3 Application

E - External
I - Internal
☐ - External + internal

4 Thread pitch

0.5 - 6.0 mm (Thread pitch)
32 - 4 TPI (Threads per inch)

5 Thread standard

ISO
UN
WHIT
NPT
NPTF
BSPT

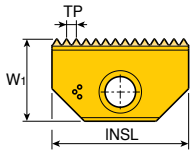
6 Grades

Coated
TT9030

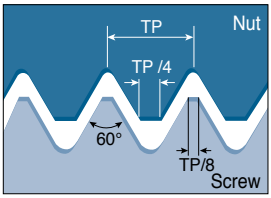
TTMT-ISO

TS-THREAD

ISO Metric



TTMT12 I [1]



Insert	Designation	TP (mm)	Dimension (mm)			Grade
			INSL	W1	S1	TT9030
	**TTMT12 I 0.5 ISO[1]**	0.50	12	6.5	2.9	●
	TTMT12 I 0.75 ISO[1]	0.75	12	6.5	2.9	●
	TTMT12 I 1.0 ISO[1]	1.00	12	6.5	2.9	●
	TTMT12 I 1.25 ISO[1]	1.25	12	6.5	2.9	●
	TTMT12 I 1.5 ISO[1]	1.50	12	6.5	2.9	●
	TTMT14 I 0.5 ISO	0.50	14	7.9	3.2	●
	TTMT14 E/I 0.75 ISO	0.75	14	7.9	3.2	●
	TTMT14 E/I 1.0 ISO	1.00	14	7.9	3.2	●
	TTMT14 E/I 1.25 ISO	1.25	14	7.9	3.2	●
	TTMT14 E/I 1.5 ISO	1.50	14	7.9	3.2	●
	TTMT14 E/I 1.75 ISO	1.75	14	7.9	3.2	●
	TTMT14 E/I 2.0 ISO	2.00	14	7.9	3.2	●
	TTMT14 E/I 2.5 ISO	2.50	14	7.9	3.2	●
	TTMT21 E/I 1.0 ISO	1.00	21	12.6	4.8	●
	TTMT21 E/I 1.5 ISO	1.50	21	12.6	4.8	●
	TTMT21 I 1.75 ISO	1.75	21	12.6	4.8	●
	TTMT21 E/I 2.0 ISO	2.00	21	12.6	4.8	●
	TTMT21 E/I 2.5 ISO	2.50	21	12.6	4.8	●
	TTMT21 E/I 3.0 ISO	3.00	21	12.6	4.8	●
	TTMT21 I 3.5 ISO	3.50	21	12.6	4.8	●
	TTMT30 E/I 1.5 ISO	1.50	30	16.7	5.6	●
	TTMT30 E/I 2.0 ISO	2.00	30	16.7	5.6	●
	TTMT30 E/I 3.0 ISO	3.00	30	16.7	5.6	●
	TTMT30 E/I 3.5 ISO	3.50	30	16.7	5.6	●
	TTMT30 E/I 4.0 ISO	4.00	30	16.7	5.6	●
	TTMT30 I 4.5 ISO	4.50	30	16.7	5.6	●
	TTMT30 I 5.0 ISO	5.00	30	16.7	5.6	●
	TTMT40 E/I 1.5 ISO	1.50	40	20.8	6.4	●
	TTMT40 E/I 2.0 ISO	2.00	40	20.8	6.4	●
	TTMT40 E/I 3.0 ISO	3.00	40	20.8	6.4	●
	TTMT40 I 3.5 ISO	3.50	40	20.8	6.4	●
	TTMT40 E/I 4.0 ISO	4.00	40	20.8	6.4	●
	TTMT40 I 4.5 ISO	4.50	40	20.8	6.4	●
	TTMT40 E/I 5.0 ISO	5.00	40	20.8	6.4	●
	TTMT40 I 5.5 ISO	5.50	40	20.8	6.4	●
	TTMT40 E/I 6.0 ISO	6.00	40	20.8	6.4	●

MTE/F

C31-C36

• [1] TTMT12 insert is only available with a single cutting edge

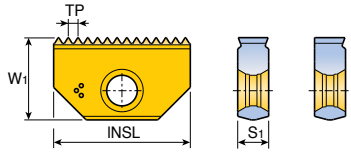
●: Standard items

TaeguTec

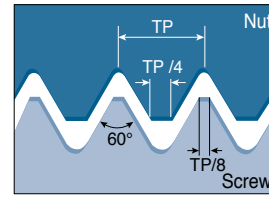
TTMT-UN

TS-THREAD

UN, UNC, UNF, UNEF, UNS



TTMT12 I [1]



Insert	Designation	TPI	Dimension (mm)			Grade
			INSL	W1	S1	TT9030
	**TTMT12 I 32 UN** [1]	32	12	6.5	2.9	●
	TTMT12 I 28 UN [1]	28	12	6.5	2.9	●
	TTMT12 I 24 UN [1]	24	12	6.5	2.9	●
	TTMT12 I 20 UN [1]	20	12	6.5	2.9	●
	TTMT12 I 18 UN [1]	18	12	6.5	2.9	●
	TTMT12 I 16 UN [1]	16	12	6.5	2.9	●
	TTMT14 E/I 32 UN	32	14	7.9	3.2	●
	TTMT14 E/I 28 UN	28	14	7.9	3.2	●
	TTMT14 I 27 UN	27	14	7.9	3.2	●
	TTMT14 E/I 24 UN	24	14	7.9	3.2	●
	TTMT14 E/I 20 UN	20	14	7.9	3.2	●
	TTMT14 E/I 18 UN	18	14	7.9	3.2	●
	TTMT14 E/I 16 UN	16	14	7.9	3.2	●
	TTMT14 E/I 14 UN	14	14	7.9	3.2	●
	TTMT14 E/I 12 UN	12	14	7.9	3.2	●
	TTMT14 I 11 UN	11	14	7.9	3.2	●
	TTMT14 I 10 UN	10	14	7.9	3.2	●
	TTMT21 E/I 24 UN	24	21	12.6	4.8	●
	TTMT21 E/I 20 UN	20	21	12.6	4.8	●
	TTMT21 E/I 18 UN	18	21	12.6	4.8	●
	TTMT21 E/I 16 UN	16	21	12.6	4.8	●
	TTMT21 E/I 14 UN	14	21	12.6	4.8	●
	TTMT21 E/I 12 UN	12	21	12.6	4.8	●
	TTMT21 E/I 10 UN	10	21	12.6	4.8	●
	TTMT21 I 8 UN	8	21	12.6	4.8	●
	TTMT21 I 7 UN	7	21	12.6	4.8	●
	TTMT30 E/I 20 UN	20	30	16.7	5.6	●
	TTMT30 E/I 18 UN	18	30	16.7	5.6	●
	TTMT30 E/I 16 UN	16	30	16.7	5.6	●
	TTMT30 E/I 14 UN	14	30	16.7	5.6	●
	TTMT30 E/I 12 UN	12	30	16.7	5.6	●
	TTMT30 E/I 10 UN	10	30	16.7	5.6	●
	TTMT30 E/I 8 UN	8	30	16.7	5.6	●
	TTMT30 E/I 6 UN	6	30	16.7	5.6	●
	TTMT30 I 5 UN	5	30	16.7	5.6	●

MTE/F

C31-C36

• [1] TTMT12 insert is only available with a single cutting edge

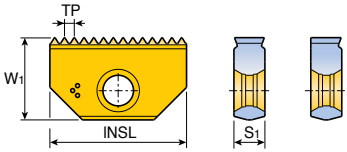
●: Standard items

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TaeguTec Industry 4.0

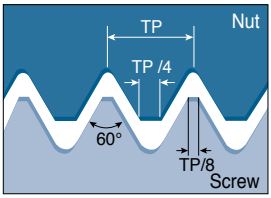
TTMT-UN

TS-THREAD

UN, UNC, UNF, UNEF, UNS



TTMT12 I [1]



Insert	Designation	TPI	Dimension (mm)			Grade
			INSL	W1	S1	TT9030
	**TTMT40 E/I 16 UN**	16	40	20.8	6.4	●
	TTMT40 E/I 14 UN	14	40	20.8	6.4	●
	TTMT40 E/I 12 UN	12	40	20.8	6.4	●
	TTMT40 E/I 10 UN	10	40	20.8	6.4	●
	TTMT40 E/I 8 UN	8	40	20.8	6.4	●
	TTMT40 E/I 6 UN	6	40	20.8	6.4	●
	TTMT40 I 4.5 UN	4.5	40	20.8	6.4	●
	TTMT40 I 4 UN	4	40	20.8	6.4	●

MTE/F

C31-C36

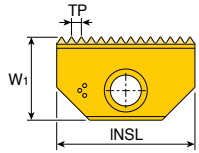
• [1] TTMT12 insert is only available with a single cutting edge

●: Standard items

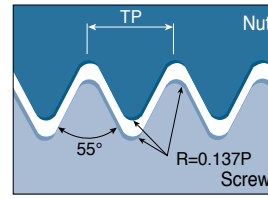
TaeguTec

TTMT-W

Whitworth (BSW, BSF, BSP)



TTMT12 (1)



Insert	Designation	TPI	Dimension (mm)			Grade
			INSL	W1	S1	TT9030
	**TTMT12 19 W(1)**	19	12	6.5	2.9	●
	TTMT14 24 W	24	14	7.9	3.2	●
	TTMT14 20 W	20	14	7.9	3.2	●
	TTMT14 19 W	19	14	7.9	3.2	●
	TTMT14 16 W	16	14	7.9	3.2	●
	TTMT14 14 W	14	14	7.9	3.2	●
	TTMT21 20 W	20	21	12.6	4.8	●
	TTMT21 19 W	19	21	12.6	4.8	●
	TTMT21 16 W	16	21	12.6	4.8	●
	TTMT21 14 W	14	21	12.6	4.8	●
	TTMT21 11 W	11	21	12.6	4.8	●
	TTMT30 16 W	16	30	16.7	5.6	●
	TTMT30 14 W	14	30	16.7	5.6	●
	TTMT30 11 W	11	30	16.7	5.6	●
	TTMT40 11 W	11	40	20.8	6.4	●
	TTMT40 8 W	8	40	20.8	6.4	●

MTE/F
C31-C36

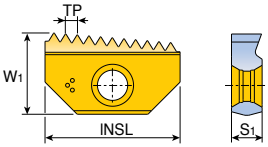
- The same insert for external and internal threading
- (1) TTMT12 insert is only available with a single cutting edge

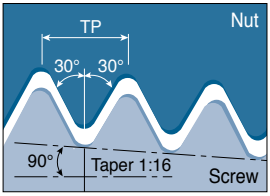
●: Standard items

TTMT-NPT

TS-THREAD

NPT - National pipe taper thread





Insert	Designation	TPI	Dimension (mm)			Grade
			INSL	W1	S1	TT9030
	**TTMT12 18 NPT**	18	12	6.5	2.9	●
	TTMT14 18 NPT	18	14	7.9	3.2	●
	TTMT14 14 NPT	14	14	7.9	3.2	●
	TTMT21 14 NPT	14	21	12.6	4.8	●
	TTMT21 11.5 NPT	11.5	21	12.6	4.8	●
	TTMT30 11.5 NPT	11.5	30	16.7	5.6	●
	TTMT30 8 NPT	8	30	16.7	5.6	●
	TTMT40 11.5 NPT	11.5	40	20.8	6.4	●
	TTMT40 8 NPT	8	40	20.8	6.4	●

MTE/F

C31-C36

- The same insert for external and internal threading
- Conical pipe thread inserts are single-sided

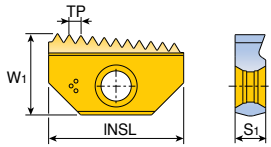
●: Standard items

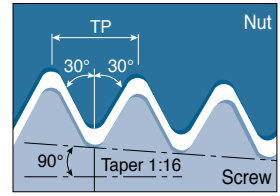
TaeguTec

TTMT-NPTF

TS-THREAD

NPTF - National pipe thread tapered (Dryseal)





Insert	Designation	TPI	Dimension (mm)			Grade
			INSL	W1	S1	TT9030
	**TTMT12 18 NPTF**	18	12	6.5	2.9	●
	TTMT14 18 NPTF	18	14	7.9	3.2	●
	TTMT14 14 NPTF	14	14	7.9	3.2	●
	TTMT21 14 NPTF	14	21	12.6	4.8	●
	TTMT21 11.5 NPTF	11.5	21	12.6	4.8	●
	TTMT30 11.5 NPTF	11.5	30	16.7	5.6	●
	TTMT30 8 NPTF	8	30	16.7	5.6	●
	TTMT40 11.5 NPTF	11.5	40	20.8	6.4	●
	TTMT40 8 NPTF	8	40	20.8	6.4	●

MTE/F

C31-C36

- The same insert for external and internal threading
- Conical pipe thread Inserts are single-sided

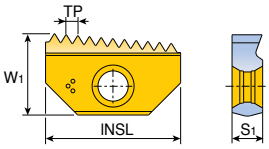
●: Standard items

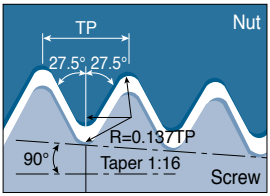
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TTMT-BSPT

TS-THREAD

BSPT - British standard pipe tapered





Insert	Designation	TPI	Dimension (mm)			Grade
			INSL	W1	S1	TT9030
	**TTMT12 19 BSPT**	19	12	6.5	2.9	●
	TTMT14 19 BSPT	19	14	7.9	3.2	●
	TTMT14 14 BSPT	14	14	7.9	3.2	●
	TTMT21 14 BSPT	14	21	12.6	4.8	●
	TTMT21 11 BSPT	11	21	12.6	4.8	●
	TTMT30 11 BSPT	11	30	16.7	5.6	●
	TTMT40 11 BSPT	11	40	20.8	6.4	●

MTE/F

C31-C36

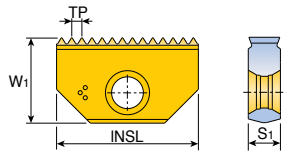
- The same insert for external and internal threading
- Conical pipe thread inserts are single-sided

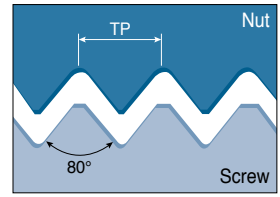
●: Standard items

TaeguTec

TTMT-PG

Electrical connectors (DIN 40430)





Insert	Designation	TPI	Thread size	Dimension (mm)			Grade
				INSL	W_1	S_1	TT9030
	**TTMT14 18 PG**	18	PG9, 11, 13.5, 16	14	7.9	3.2	●
	TTMT21 18 PG	18	PG16	21	12.6	4.8	●
	TTMT21 16 PG	16	PG21, 29, 36, 42, 48	21	12.6	4.8	●
	TTMT30 16 PG	16	PG36, 42, 48	30	16.7	5.6	●

MTE/F
C31-C36

• The same insert for external and internal threading

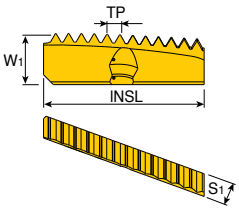
●: Standard items

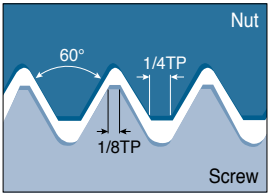
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TMTH-ISO

TS-THREAD

Helical inserts for ISO metric threads (Internal)





Insert	Designation	TP (mm)	THID	Dimension (mm)			Tool	Grade
				INSL	W1	S1		TT9030
	**TMTH 23 I 1.0 ISO**	1.0	≥M26	27	8.0	3.5	TMTSRH 23-2	●
	TMTH 23 I 1.5 ISO	1.5	≥M27	27	8.0	3.5	TMTSRH 23-2	●
	TMTH 23 I 2.0 ISO	2.0	≥M28	27	8.0	3.5	TMTSRH 23-2	●
	TMTH 23 I 3.0 ISO	3.0	≥M30	27	8.0	3.5	TMTSRH 23-2	●
	TMTH 32 I 1.0 ISO	1.0	≥M34	32	9.0	4.0	TMTSRH 32-5	●
	TMTH 32 I 1.5 ISO	1.5	≥M35	32	9.0	4.0	TMTSRH 32-5	●
	TMTH 32 I 2.0 ISO	2.0	≥M36	32	9.0	4.0	TMTSRH 32-5	●
	TMTH 32 I 3.0 ISO	3.0	≥M38	32	9.0	4.0	TMTSRH 32-5	●
	TMTH 32 I 4.0 ISO	4.0	≥M40	32	9.0	4.0	TMTSRH 32-5	●
	TMTH 45 I 1.5 ISO	1.5	≥M50	37	11.9	5.0	TMTSRH 45-6	●
	TMTH 45 I 2.0 ISO	2.0	≥M50	37	11.9	5.0	TMTSRH 45-6	●
	TMTH 45 I 3.0 ISO	3.0	≥M56	37	11.9	5.0	TMTSRH 45-6	●
	TMTH 45 I 4.0 ISO	4.0	≥M56	37	11.9	5.0	TMTSRH 45-6	●
	TMTH 63 I 1.5 ISO	1.5	≥M70	38	11.9	5.0	TMTSRH 63-9	●
	TMTH 63 I 2.0 ISO	2.0	≥M70	38	11.9	5.0	TMTSRH 63-9	●
	TMTH 63 I 3.0 ISO	3.0	≥M75	38	11.9	5.0	TMTSRH 63-9	●
	TMTH 63 I 4.0 ISO	4.0	≥M75	38	11.9	5.0	TMTSRH 63-9	●
	TMTH 63 I 6.0 ISO	6.0	≥M78	38	11.9	5.0	TMTSRH 63-9	●

TMTSRH

C34,C37

• THID: Thread designation inside

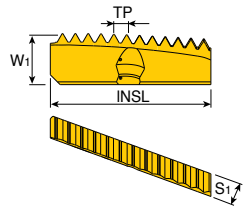
●: Standard items

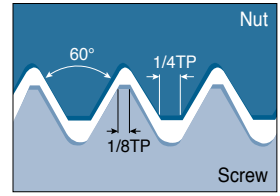
TaeguTec

TMTH-UN

TS-THREAD

Helical inserts for UN, UNC, UNF, UNEF, UNS threads (Internal)





Insert	Designation	TPI	THID	Dimension (mm)			Tool	Grade
				INSL	W1	S1		TT9030
	**TMTH 23 I 24 UN**	24	≥1”	27	8.0	3.5	TMTSRH 23-2	●
	TMTH 23 I 20 UN	20	≥1”	27	8.0	3.5	TMTSRH 23-2	●
	TMTH 23 I 18 UN	18	≥1 1/16”	27	8.0	3.5	TMTSRH 23-2	●
	TMTH 23 I 16 UN	16	≥1 1/16”	27	8.0	3.5	TMTSRH 23-2	●
	TMTH 23 I 14 UN	14	≥1 1/8”	27	8.0	3.5	TMTSRH 23-2	●
	TMTH 23 I 12 UN	12	≥1 1/8”	27	8.0	3.5	TMTSRH 23-2	●
	TMTH 23 I 8 UN	8	≥1 3/16”	27	8.0	3.5	TMTSRH 23-2	●
	TMTH 23 I 7 UN	7	≥1 1/4”	27	8.0	3.5	TMTSRH 23-2	●
	TMTH 32 I 20 UN	20	≥1 3/8”	32	9.0	4.0	TMTSRH 32-5	●
	TMTH 32 I 18 UN	18	≥1 3/8”	32	9.0	4.0	TMTSRH 32-5	●
	TMTH 32 I 16 UN	16	≥1 3/8”	32	9.0	4.0	TMTSRH 32-5	●
	TMTH 32 I 12 UN	12	≥1 7/16”	32	9.0	4.0	TMTSRH 32-5	●
	TMTH 32 I 8 UN	8	≥1 1/2”	32	9.0	4.0	TMTSRH 32-5	●
	TMTH 32 I 6 UN	6	≥1 9/16”	32	9.0	4.0	TMTSRH 32-5	●
	TMTH 45 I 16 UN	16	≥2”	37	11.9	5.0	TMTSRH 45-6	●
	TMTH 45 I 12 UN	12	≥2”	37	11.9	5.0	TMTSRH 45-6	●
	TMTH 45 I 8 UN	8	≥2 1/4”	37	11.9	5.0	TMTSRH 45-6	●
	TMTH 45 I 6 UN	6	≥2 1/4”	37	11.9	5.0	TMTSRH 45-6	●
	TMTH 63 I 16 UN	16	≥2 3/4”	38	11.9	5.0	TMTSRH 63-9	●
	TMTH 63 I 12 UN	12	≥2 3/4”	38	11.9	5.0	TMTSRH 63-9	●
	TMTH 63 I 8 UN	8	≥3”	38	11.9	5.0	TMTSRH 63-9	●
	TMTH 63 I 6 UN	6	≥3”	38	11.9	5.0	TMTSRH 63-9	●

TMTSRH
C34,C37

• THID: Thread designation inside

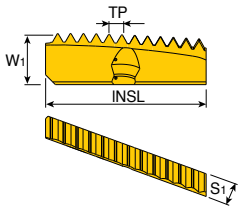
●: Standard items

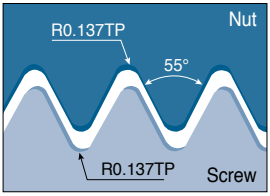
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TMTH-W

TS-THREAD

Helical inserts for whitworth threads, BSW, BSF, BSP (Internal and external)





Insert	Designation	TPI	THID	THOD	Dimension (mm)			Tool	Grade
					INSL	W1	S1		TT9030
	**TMTH 23 11 W**	11	≥G 1"	≥G 1"	27	8.0	3.5	TMTSRH 23-2	●
	TMTH 32 11 W	11	≥G 1 1/8"	≥G 1"	32	9.0	4.0	TMTSRH 32-5	●
	TMTH 45 11 W	11	≥G 1 3/4"	≥G 1"	37	11.9	5.0	TMTSRH 45-6	●
	TMTH 63 11 W	11	≥G 2 1/2"	≥G 1"	38	11.9	5.0	TMTSRH 63-9	●

TMTSRH

C34,C37

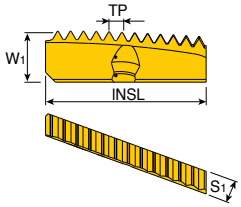
- THID: Thread designation inside
- THOD: Thread designation outside

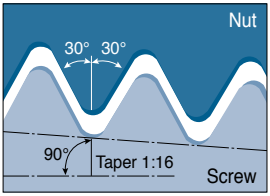
●: Standard item

TMTH-NPT

TS-THREAD

Helical inserts for NPT threads (Internal and external)





Insert	Designation	TPI	THID	THOD	Dimension (mm)			Tool	Grade
					INSL	W1	S1		TT9030
	**TMTH 23 11.5 NPT**	11.5	1"-2" NPT	1"-2" NPT	27	8.0	3.5	TMTSRH 23-2	●
	TMTH 32 11.5 NPT	11.5	11/14"-2" NPT	1"-2" NPT	32	9.0	4.0	TMTSRH 32-5	●
	TMTH 45 11.5 NPT	11.5	2" NPT	1"-2" NPT	37	11.9	5.0	TMTSRH 45-6	●
	TMTH 63 11.5 NPT	11.5	-	≥1" NPT	38	11.9	5.0	TMTSRH 63-9	●

TMTSRH

C34,C37

- THID: Thread designation inside
- THOD: Thread designation outside

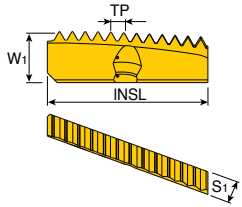
●: Standard items

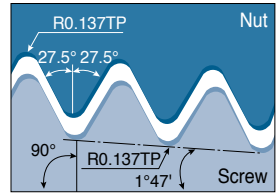
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TMTH-BSPT

TS-THREAD

Helical inserts for BSPT threads (Internal and external)





Insert	Designation	TPI	THID	THOD	Dimension (mm)			Tool	Grade
					INSL	W1	S1		TT9030
	**TMTH 23 11 BSPT**	11	≥1" BSPT	≥1" BSPT	27	8.0	3.5	TMTSRH 23-2	●
	TMTH 32 11 BSPT	11	≥1 1/8" BSPT	≥1" BSPT	32	9.0	4.0	TMTSRH 32-5	●
	TMTH 45 11 BSPT	11	≥1 3/4" BSPT	≥1" BSPT	37	11.9	5.0	TMTSRH 45-6	●
	TMTH 63 11 BSPT	11	≥2 1/2" BSPT	≥1" BSPT	38	11.9	5.0	TMTSRH 63-9	●

TMTSRH
C34,C37

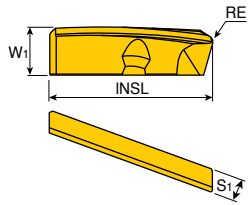
- THID: Thread designation inside
- THOD: Thread designation outside

●: Standard Item

TMTH-F

TS-THREAD

Helical long edge finishing inserts



Insert	Designation	Dimension (mm)				Tool	Grade
		INSL	W1	S1	RE		TT9030
	**TMTH 23F R0.2**	27	8.0	3.5	0.2	TMTSRH 23-2	●
	TMTH 23F R0.5	27	8.0	3.5	0.5	TMTSRH 23-2	●
	TMTH 23F R1.0	27	8.0	3.5	1.0	TMTSRH 23-2	●
	TMTH 32F R0.2	32	9.0	4.0	0.2	TMTSRH 32-5	●
	TMTH 32F R0.5	32	9.0	4.0	0.5	TMTSRH 32-5	●
	TMTH 32F R1.0	32	9.0	4.0	1.0	TMTSRH 32-5	●
	TMTH 45F R0.2	37	11.9	5.0	0.2	TMTSRH 45-6	●

TMTSRH
C34,C37

●: Standard items

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TaeguTec Industry 4.0

Recommended Cutting Conditions

TS-THREAD

Machining data for indexable insert of threading cutters

ISO	Material		Condition	Tensile strength (N/mm^2)	Hardness HB	Material No.	Cutting speed Vc(m/min) TT9030
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1	100-200
		>=0.25%C	Annealed	650	190	2	95-190
		<0.55%C	Quenched and tempered	850	250	3	90-180
		>=0.55%C	Annealed	750	220	4	90-170
			Quenched and tempered	1000	300	5	80-150
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	600	200	6	120-170
			Quenched and tempered	930	275	7	115-160
				1000	300	8	105-150
				1200	350	9	140
	High alloy steel, cast steel and tool steel		Annealed	680	200	10	90-170
			Quenched and tempered	1100	325	11	75-145
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12	110-170
			Martensitic	820	240	13	100-160
			Austenitic	600	180	14	90-145
K	Gray cast iron (GG)		Ferritic		160	15	65-135
			Pearlitic		250	16	65-110
	Cast iron nodular (GGG)		Ferritic		180	17	65-135
			Pearlitic		260	18	60-100
	Malleable cast iron		Ferritic		130	19	65-135
			Pearlitic		230	20	60-120
N	Aluminum - Wrought alloy		Not cureable		60	21	110-260
			Cured		100	22	110-200
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23	145-350
			Cured		90	24	145-275
		>12% Si	High temp.		130	25	95-225
	Copper alloys	>1% Pb	Free cutting		110	26	145-350
			Brass		90	27	145-350
			Electrolitic copper		100	28	145-350
	Non-metallic		Duroplastics, fiber plastics			29	90-370
			Hard rubber			30	80-330
S	High temp. alloys	Fe based	Annealed		200	31	20-60
			Cured		280	32	20-50
		Ni or Co based	Annealed		250	33	20-30
			Cured		350	34	10-20
			Cast		320	35	15-25
	Titanium, Ti alloys			Rm 400		36	30-90
			Alpha+beta alloys cured	Rm 1050		37	20-70
H	Hardened steel		Hardened		55HRC	38	25-60
			Hardened		60HRC	39	20-40
	Chilled cast iron		Cast		400	40	25-60
	Cast iron nodular		Hardened		55HRC	41	20-50

- For more information of material groups, see the materials & grades "material conversion table"

Steel Stainless steel Cast iron Nonferrous High temp. alloys Hardened steel

- Feed rate: 0.05 - 0.15 mm/tooth

TaeguTec

Recommended Cutting Conditions

TS-THREAD

Machining data for solid carbide threading end mills

ISO	Material		Condition	Tensile strength (N/mm^2)	Hardness HB	Material No.	Cutting speed Vc(m/min) TT9030
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1	100-250
		>=0.25%C	Annealed	650	190	2	80-210
		<0.55%C	Quenched and tempered	850	250	3	65-170
		>=0.55%C	Annealed	750	220	4	110-180
			Quenched and tempered	1000	300	5	95-160
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	600	200	6	90-160
			Quenched and tempered	930	275	7	65-200
				1000	300	8	70-210
				1200	350	9	95-160
	High alloy steel, cast steel and tool steel		Annealed	680	200	10	130-170
			Quenched and tempered	1100	325	11	75-100
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12	110-170
			Martensitic	820	240	13	70-155
			Austenitic	600	180	14	85-100
K	Gray cast iron (GG)		Ferritic		160	15	70-150
			Pearlitic		250	16	110-140
	Cast iron nodular (GGG)		Ferritic		180	17	120-160
			Pearlitic		260	18	75-160
	Malleable cast iron		Ferritic		130	19	120-160
			Pearlitic		230	20	110-140
N	Aluminum - Wrought alloy		Not cureable		60	21	160-300
			Cured		100	22	
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23	
			Cured		90	24	
		>12% Si	High temp.		130	25	
	Copper alloys	>1% Pb	Free cutting		110	26	
			Brass		90	27	
			Electrolitic copper		100	28	
	Non-metallic		Duroplastics, fiber plastics			29	100-400
			Hard rubber			30	
S	High temp. alloys	Fe based	Annealed		200	31	
			Cured		280	32	
		Ni or Co based	Annealed		250	33	20-80
			Cured		350	34	
			Cast		320	35	
	Titanium, Ti alloys			Rm 400		36	
			Alpha+beta alloys cured	Rm 1050		37	20-80
H	Hardened steel		Hardened		55HRC	38	55-65
			Hardened		60HRC	39	45-55
	Chilled cast iron		Cast		400	40	90-105
	Cast iron nodular		Hardened		55HRC	41	55-65

• For more information of material groups, see the materials & grades "material conversion table"

Steel | Stainless steel | Cast iron | Nonferrous | High temp. alloys | Hardened steel

Recommended Cutting Conditions

TS-THREAD

Machining data for solid carbide threading end mills

Feed (mm/tooth) for diameter (mm)											
Ø2	Ø3	Ø4	Ø6	Ø8	Ø10	Ø12	Ø14	Ø16	Ø20	Ø25	Ø30
0.03	0.04	0.04	0.06	0.07	0.08	0.09	0.11	0.12	0.15	0.18	0.21
0.03	0.04	0.04	0.06	0.07	0.08	0.09	0.11	0.12	0.15	0.18	0.21
0.02	0.03	0.03	0.05	0.06	0.07	0.08	0.09	0.1	0.12	0.15	0.18
0.02	0.03	0.03	0.05	0.06	0.07	0.08	0.09	0.1	0.12	0.15	0.18
0.02	0.02	0.02	0.03	0.04	0.05	0.05	0.06	0.07	0.08	0.1	0.11
0.02	0.02	0.02	0.03	0.04	0.05	0.05	0.06	0.07	0.08	0.1	0.11
0.02	0.02	0.02	0.03	0.04	0.05	0.05	0.06	0.07	0.08	0.1	0.11
0.02	0.02	0.02	0.03	0.04	0.05	0.05	0.06	0.07	0.08	0.1	0.11
0.02	0.02	0.02	0.03	0.04	0.05	0.05	0.06	0.07	0.08	0.1	0.11
0.02	0.02	0.02	0.03	0.04	0.05	0.05	0.06	0.07	0.08	0.1	0.11
0.02	0.02	0.02	0.03	0.04	0.05	0.05	0.06	0.07	0.08	0.1	0.11
0.02	0.02	0.02	0.03	0.04	0.05	0.05	0.06	0.07	0.08	0.1	0.11
0.03	0.04	0.04	0.06	0.07	0.08	0.09	0.11	0.12	0.15	0.18	0.21
0.03	0.04	0.04	0.06	0.07	0.08	0.09	0.11	0.12	0.15	0.18	0.21
0.03	0.04	0.04	0.06	0.07	0.08	0.09	0.11	0.12	0.15	0.18	0.21
0.03	0.04	0.04	0.06	0.07	0.08	0.09	0.11	0.12	0.15	0.18	0.21
0.03	0.04	0.04	0.06	0.07	0.08	0.09	0.11	0.12	0.15	0.18	0.21
0.03	0.04	0.04	0.06	0.07	0.08	0.09	0.11	0.21	0.15	0.18	0.21
0.03	0.04	0.04	0.06	0.07	0.08	0.09	0.11	0.12	0.15	0.18	0.21
0.05	0.06	0.07	0.09	0.1	0.11	0.12	0.13	0.15	0.18	0.22	0.25
0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.05
0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.05

• For cutters with long cutting flute, reduce feed rate by 40%

Recommended Cutting Conditions

TS-THREAD

Machining data for short solid carbide thread mIlls

ISO	Material	Hardness (HRC)	Cutting speed Vc (m/min)	Feed (mm/tooth) for diameter (mm)												
				Ø1.5	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	Ø9	Ø10	Ø12	Ø14	Ø15
P	Low & medium carbon steels		60-120	0.05	0.05	0.07	0.09	0.11	0.13	0.14	0.15	0.16	0.16	0.17	0.18	0.18
	High carbon steels		60-90	0.04	0.05	0.06	0.08	0.09	0.10	0.12	0.13	0.14	0.14	0.16	0.17	0.18
	Alloy steels, treated steels		50-80	0.04	0.04	0.05	0.05	0.06	0.07	0.07	0.08	0.09	0.1	0.12	0.13	0.14
	Cast steels		70-90	0.04	0.04	0.05	0.05	0.06	0.07	0.07	0.08	0.09	0.1	0.12	0.13	0.14
M	Stainless steels		60-90	0.03	0.03	0.04	0.05	0.06	0.06	0.07	0.08	0.09	0.1	0.11	0.12	0.13
K	Cast Iron		40-80	0.05	0.05	0.07	0.09	0.11	0.13	0.14	0.15	0.16	0.16	0.17	0.18	0.18
N	Aluminum		80-150	0.05	0.05	0.07	0.09	0.11	0.13	0.14	0.15	0.16	0.16	0.17	0.18	0.18
	Synthetics, duroplastics, thermoplastics		50-200	0.10	0.11	0.12	0.14	0.16	0.18	0.19	0.19	0.19	0.19	0.19	0.20	0.20
S	Nickel alloys, titanium alloys.		20-40	0.03	0.03	0.04	0.04	0.05	0.06	0.06	0.06	0.07	0.07	0.07	0.08	0.08
H	Hardened steel	45-50	60-70	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.07	0.08				
		51-55	50-60	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.07				
		56-62	40-50	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.06				

• For more information of material groups, see the materials & grades "material conversion table"

Steel Stainless steel Cast iron Nonferrous High temp. alloys Hardened steel

ADVANCE MACHINING
TaeguTec Industry 4.0

T-TAP

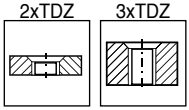
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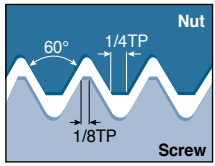


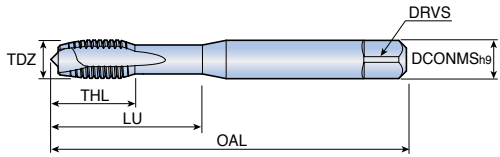
TPH...52B

Straight flute with spiral point - Uncoated









- For general purpose
- Form B: 4-5 threads chamfer

Metric ISO standard thread DIN 13 standard

Designation	TDZ	TP (mm)	Standard (DIN)	Tolerance	Dimension (mm)					
					OAL	THL	LU	DCONMS	DRVS	Core hole
TPH452B M2x0.4	M2	0.4	DIN371	ISO 2-6H	45	8	-	2.8	2.1	1.6
TPH452B M2.5x0.45	M2.5	0.45			50	9	-	2.8	2.1	2.05
TPH452B M3x0.5	M3	0.5			56	10	18	3.5	2.7	2.5
TPH452B M4x0.7	M4	0.7			63	12	21	4.5	3.4	3.3
TPH452B M5x0.8	M5	0.8			70	14	25	6	4.9	4.2
TPH452B M6x1.0	M6	1			80	16	30	6	4.9	5
TPH452B M8x1.25	M8	1.25			90	18	35	8	6.2	6.8
TPH452B M10x1.5	M10	1.5			100	20	39	10	8	8.5
TPH652B M12x1.75	M12	1.75	DIN376	ISO 2-6H	110	22	-	9	7	10.2
TPH652B M14x2.0	M14	2			110	24	-	11	9	12
TPH652B M16x2.0	M16	2			110	26	-	12	9	14
TPH652B M20x2.5	M20	2.5			140	30	-	16	12	17.5

Metric ISO fine thread DIN 13 standard

Designation	TDZ	TP (mm)	Standard (DIN)	Tolerance	Dimension (mm)					
					OAL	THL	LU	DCONMS	DRVS	Core hole
TPH552B MF8x1.0	M8	1	DIN374	ISO 2-6H	90	15	-	6	4.9	7
TPH552B MF10x1.25	M10	1.25			100	18	-	7	5.5	8.8
TPH552B MF12x1.5	M12	1.5			100	18	-	9	7	10.5
TPH552B MF14x1.5	M14	1.5			100	18	-	11	9	12.5
TPH552B MF16x1.5	M16	1.5			100	18	-	12	9	14.5

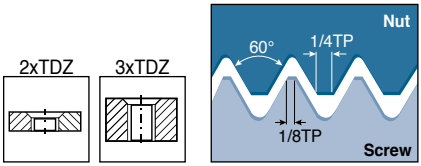
Cutting Condition
Cb2

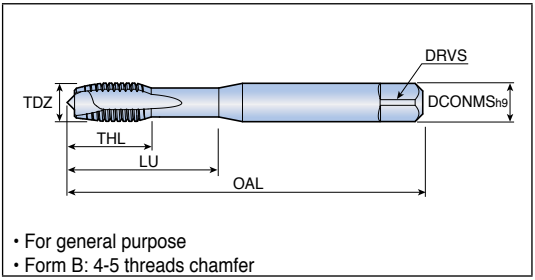
TPH...52B05

T-TAP

Straight flute with spiral point - Steam tempered







- For general purpose
- Form B: 4-5 threads chamfer

Metric ISO standard thread DIN 13 standard

Designation	TDZ	TP (mm)	Standard (DIN)	Tolerance	Dimension (mm)					
					OAL	THL	LU	DCONMS	DRVS	Core hole
TPH452B05 M2x0.4	M2	0.4	DIN371	ISO 2-6H	45	8	-	2.8	2.1	1.6
TPH452B05 M2.5x0.45	M2.5	0.45			50	9	-	2.8	2.1	2.05
TPH452B05 M3x0.5	M3	0.5			56	10	18	3.5	2.7	2.5
TPH452B05 M4x0.7	M4	0.7			63	12	21	4.5	3.4	3.3
TPH452B05 M5x0.8	M5	0.8			70	14	25	6	4.9	4.2
TPH452B05 M6x1.0	M6	1			80	16	30	6	4.9	5
TPH452B05 M8x1.25	M8	1.25			90	18	35	8	6.2	6.8
TPH452B05 M10x1.5	M10	1.5			100	20	39	10	8	8.5
TPH652B05 M12x1.75	M12	1.75	DIN376	ISO 2-6H	110	22	-	9	7	10.2
TPH652B05 M14x2.0	M14	2			110	24	-	11	9	12
TPH652B05 M16x2.0	M16	2			110	26	-	12	9	14
TPH652B05 M20x2.5	M20	2.5			140	30	-	16	12	17.5

Metric ISO fine thread DIN 13 standard

Designation	TDZ	TP (mm)	Standard (DIN)	Tolerance	Dimension (mm)					
					OAL	THL	LU	DCONMS	DRVS	Core hole
TPH552B05 MF8x1.0	M8	1	DIN374	ISO 2-6H	90	15	-	6	4.9	7
TPH552B05 MF10x1.25	M10	1.25			100	18	-	7	5.5	8.8
TPH552B05 MF12x1.5	M12	1.5			100	18	-	9	7	10.5
TPH552B05 MF14x1.5	M14	1.5			100	18	-	11	9	12.5
TPH552B05 MF16x1.5	M16	1.5			100	18	-	12	9	14.5

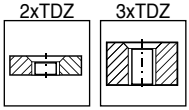
Cutting Condition
Cb2

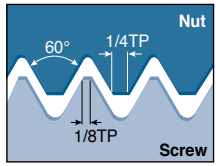
TaeguTec

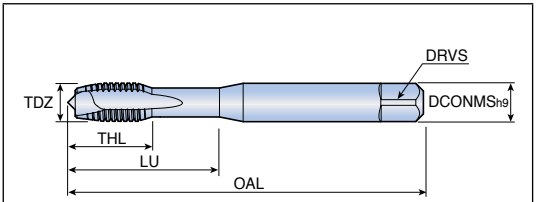
TPH...52B10

Straight flute with spiral point - TiN coated









- For general purpose
- Form B: 4-5 threads chamfer

Metric ISO standard thread DIN 13 standard

Designation	TDZ	TP (mm)	Standard (DIN)	Tolerance	Dimension (mm)					
					OAL	THL	LU	DCONMS	DRVS	Core hole
TPH452B10 M2x0.4	M2	0.4	DIN371	ISO 2-6H	45	8	-	2.8	2.1	1.6
TPH452B10 M2.5x0.45	M2.5	0.45			50	9	-	2.8	2.1	2.05
TPH452B10 M3x0.5	M3	0.5			56	10	18	3.5	2.7	2.5
TPH452B10 M4x0.7	M4	0.7			63	12	21	4.5	3.4	3.3
TPH452B10 M5x0.8	M5	0.8			70	14	25	6	4.9	4.2
TPH452B10 M6x1.0	M6	1			80	16	30	6	4.9	5
TPH452B10 M8x1.25	M8	1.25			90	18	35	8	6.2	6.8
TPH452B10 M10x1.5	M10	1.5			100	20	39	10	8	8.5
TPH652B10 M12x1.75	M12	1.75	DIN376	ISO 2-6H	110	22	-	9	7	10.2
TPH652B10 M14x2.0	M14	2			110	24	-	11	9	12
TPH652B10 M16x2.0	M16	2			110	26	-	12	9	14
TPH652B10 M20x2.5	M20	2.5			140	30	-	16	12	17.5

Metric ISO fine thread DIN 13 standard

Designation	TDZ	TP (mm)	Standard (DIN)	Tolerance	Dimension (mm)					
					OAL	THL	LU	DCONMS	DRVS	Core hole
TPH552B10 MF8x1.0	M8	1	DIN374	ISO 2-6H	90	15	-	6	4.9	7
TPH552B10 MF10x1.25	M10	1.25			100	18	-	7	5.5	8.8
TPH552B10 MF12x1.5	M12	1.5			100	18	-	9	7	10.5
TPH552B10 MF14x1.5	M14	1.5			100	18	-	11	9	12.5
TPH552B10 MF16x1.5	M16	1.5			100	18	-	12	9	14.5

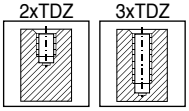
Cutting Condition
Cb2

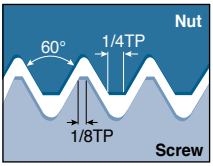
TPH...54C

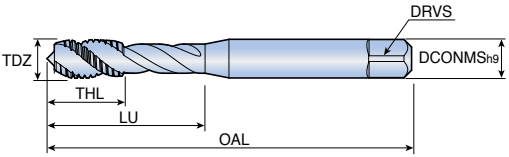
T-TAP

Right hand spiral flute (40˚) - Uncoated









- For general purpose
- Form C: 2-3 threads chamfer

Metric ISO standard thread DIN 13 standard

Designation	TDZ	TP (mm)	Standard (DIN)	Tolerance	Dimension (mm)					
					OAL	THL	LU	DCONMS	DRVS	Core hole
TPH454C M2x0.4	M2	0.4	DIN371	ISO 2-6H	45	6	10	2.8	2.1	1.6
TPH454C M2.5x0.45	M2.5	0.45			50	6	12	2.8	2.1	2.05
TPH454C M3x0.5	M3	0.5			56	7	18	3.5	2.7	2.5
TPH454C M4x0.7	M4	0.7			63	8	21	4.5	3.4	3.3
TPH454C M5x0.8	M5	0.8			70	10	25	6	4.9	4.2
TPH454C M6x1.0	M6	1			80	12	30	6	4.9	5
TPH454C M8x1.25	M8	1.25			90	15	35	8	6.2	6.8
TPH454C M10x1.5	M10	1.5			100	18	39	10	8	8.5
TPH654C M12x1.75	M12	1.75	DIN376	ISO 2-6H	110	18	-	9	7	10.2
TPH654C M14x2.0	M14	2			110	20	-	11	9	12
TPH654C M16x2.0	M16	2			110	20	-	12	9	14
TPH654C M20x2.5	M20	2.5			140	25	-	16	12	17.5

Metric ISO fine thread DIN 13 standard

Designation	TDZ	TP (mm)	Standard (DIN)	Tolerance	Dimension (mm)					
					OAL	THL	LU	DCONMS	DRVS	Core hole
TPH554C MF8x1.0	M8	1	DIN374	ISO 2-6H	90	15	-	6	4.9	7
TPH554C MF10x1.25	M10	1.25			100	18	-	7	5.5	8.8
TPH554C MF12x1.5	M12	1.5			100	18	-	9	7	10.5
TPH554C MF14x1.5	M14	1.5			100	18	-	11	9	12.5
TPH554C MF16x1.5	M16	1.5			100	18	-	12	9	14.5

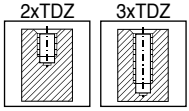
Cutting Condition
Cb3

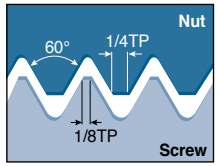
TaeguTec

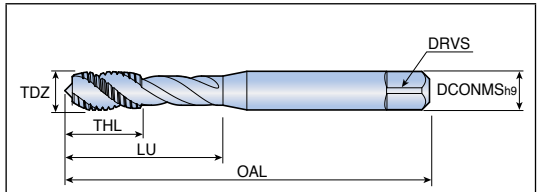
TPH...54C05

Right hand spiral flute (40˚) - Steam tempered









- For general purpose
- Form C: 2-3 threads chamfer

Metric ISO standard thread DIN 13 standard

Designation	TDZ	TP (mm)	Standard (DIN)	Tolerance	Dimension (mm)					
					OAL	THL	LU	DCONMS	DRVS	Core hole
TPH454C05 M2x0.4	M2	0.4	DIN371	ISO 2-6H	45	6	10	2.8	2.1	1.6
TPH454C05 M2.5x0.45	M2.5	0.45			50	6	12	2.8	2.1	2.05
TPH454C05 M3x0.5	M3	0.5			56	7	18	3.5	2.7	2.5
TPH454C05 M4x0.7	M4	0.7			63	8	21	4.5	3.4	3.3
TPH454C05 M5x0.8	M5	0.8			70	10	25	6	4.9	4.2
TPH454C05 M6x1.0	M6	1			80	12	30	6	4.9	5
TPH454C05 M8x1.25	M8	1.25			90	15	35	8	6.2	6.8
TPH454C05 M10x1.5	M10	1.5			100	18	39	10	8	8.5
TPH654C05 M12x1.75	M12	1.75	DIN376	ISO 2-6H	110	18	-	9	7	10.2
TPH654C05 M14x2.0	M14	2			110	20	-	11	9	12
TPH654C05 M16x2.0	M16	2			110	20	-	12	9	14
TPH654C05 M20x2.5	M20	2.5			140	25	-	16	12	17.5

Metric ISO fine thread DIN 13 standard

Designation	TDZ	TP (mm)	Standard (DIN)	Tolerance	Dimension (mm)					
					OAL	THL	LU	DCONMS	DRVS	Core hole
TPH554C05 MF8x1.0	M8	1	DIN374	ISO 2-6H	90	15	-	6	4.9	7
TPH554C05 MF10x1.25	M10	1.25			100	18	-	7	5.5	8.8
TPH554C05 MF12x1.5	M12	1.5			100	18	-	9	7	10.5
TPH554C05 MF14x1.5	M14	1.5			100	18	-	11	9	12.5
TPH554C05 MF16x1.5	M16	1.5			100	18	-	12	9	14.5

Cutting Condition C63

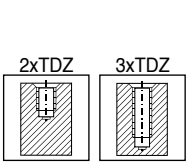
ADVANCE MACHINING TaeguTec Industry 4.0

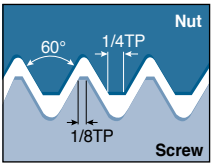
TPH...54C10

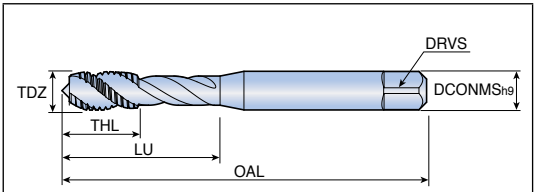
T-TAP

Right hand spiral flute (40˚) - TiN coated









- For general purpose
- Form C: 2-3 threads chamfer

Metric ISO standard thread DIN 13 standard

Designation	TDZ	TP (mm)	Standard (DIN)	Tolerance	Dimension (mm)					
					OAL	THL	LU	DCONMS	DRVS	Core hole
TPH454C10 M2x0.4	M2	0.4	DIN371	ISO 2-6H	45	6	10	2.8	2.1	1.6
TPH454C10 M2.5x0.45	M2.5	0.45			50	6	12	2.8	2.1	2.05
TPH454C10 M3x0.5	M3	0.5			56	7	18	3.5	2.7	2.5
TPH454C10 M4x0.7	M4	0.7			63	8	21	4.5	3.4	3.3
TPH454C10 M5x0.8	M5	0.8			70	10	25	6	4.9	4.2
TPH454C10 M6x1.0	M6	1			80	12	30	6	4.9	5
TPH454C10 M8x1.25	M8	1.25			90	15	35	8	6.2	6.8
TPH454C10 M10x1.5	M10	1.5			100	18	39	10	8	8.5
TPH654C10 M12x1.75	M12	1.75	DIN376	ISO 2-6H	110	18	-	9	7	10.2
TPH654C10 M14x2.0	M14	2			110	20	-	11	9	12
TPH654C10 M16x2.0	M16	2			110	20	-	12	9	14
TPH654C10 M20x2.5	M20	2.5			140	25	-	16	12	17.5

Metric ISO fine thread DIN 13 standard

Designation	TDZ	TP (mm)	Standard (DIN)	Tolerance	Dimension (mm)					
					OAL	THL	LU	DCONMS	DRVS	Core hole
TPH554C10 MF8x1.0	M8	1	DIN374	ISO 2-6H	90	15	-	6	4.9	7
TPH554C10 MF10x1.25	M10	1.25			100	18	-	7	5.5	8.8
TPH554C10 MF12x1.5	M12	1.5			100	18	-	9	7	10.5
TPH554C10 MF14x1.5	M14	1.5			100	18	-	11	9	12.5
TPH554C10 MF16x1.5	M16	1.5			100	18	-	12	9	14.5

Cutting Condition
Cb3

TaeguTec

Recommended Cutting Conditions

T-TAP

Machining data for straight flute with spiral point tap

Cutting speed Vc(m/min)

ISO	Material		Condition	Straight flute with spiral point tap			Lubrication
				Uncoated	Steam tempered	TiN coated	
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	5-25	5-25 *	15-45 *	E/O
		>=0.25%C	Annealed	5-20	5-20 *	10-40 *	E/O
		<0.55%C	Quenched and tempered	-	2-15 *	5-25 *	E/O
		>=0.55%C	Annealed	5-20	5-20 *	10-40 *	E/O
			Quenched and tempered	-	2-15 *	5-25 *	E/O
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	5-25	5-25 *	15-45 *	E/O
			Quenched and tempered	-	2-15 *	5-20 *	E/O
	High alloy steel, cast steel and tool steel		Annealed	5-20	5-20	10-40 *	E/O
			Quenched and tempered	-	-	5-20	O/S
M	Stainless steel and cast steel		Ferritic / martensitic	-	2-10 *	5-20 *	E/O
			Martensitic	-	2-10 *	5-20 *	E/O
			Austenitic	-	2-10 *	5-20 *	E/O
K	Gray cast iron (GG)		Ferritic	10-15	10-25	15-45	E/D
			Pearlitic	10-15	10-25	10-40	E/D
	Cast iron nodular (GGG)		Ferritic	8-12	5-20	10-30	E/D
			Pearlitic	8-12	5-15	10-25	E/D
	Malleable cast iron		Ferritic	10-15	10-25	15-45	E/D
			Pearlitic	10-15	10-20	10-40	E/D
N	Aluminum - wrought alloy		Not cureable	15-25 *	15-25	15-25	E/O
			Cured	15-25 *	15-25	15-25	E/O
	Aluminum-cast, alloyed	<=12% Si	Not cureable	15-20 *	10-20	15-40 *	E/O
			Cured	15-20 *	10-20	15-40 *	E/O
		>12% Si	High temp.	15-20 *	15-20	10-30	E/O
	Copper alloys	>1% Pb	Free cutting	15-25 *	15-25	10-30	E/O
			Brass	10-40	10-40	20-60	E/O
			Electrolitic copper	10-15 *	2-10	5-25	E/O
	Non-metallic		Duroplastics, fiber plastics	-	10-20	10-20	D
			Hard rubber	-	10-20	10-20	D
S	High temp. alloys	Fe based	Annealed	-	-	3-5	S
			Cured	-	-	3-5	S
		Ni or Co based	Annealed	-	-	2-4	S
			Cured	-	-	2-4	S
			Cast	-	-	2-4	S
	Titanium, Ti alloys			-	-	4-6	S
			Alpha+beta alloys cured	-	-	4-6	S

* : Recommended

• For more information of material groups, see the materials & grades "material conversion table"

Steel Stainless steel Cast iron Nonferrous High temp. alloys Hardened steel

• **Lubrication** **E:** Emulsion **O:** Cutting oil **S:** Special cutting oil **D:**Dry/air

ADVANCE MACHINING
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Recommended Cutting Conditions

T-TAP

Machining data for 40° right hand spiral flute tap

Cutting speed Vc(m/min)

ISO	Material		Condition	40° right hand spiral flute tap			Lubrication
				Uncoated	Steam tempered	TiN coated	
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	5-25	5-25 *	15-45 *	E/O
		>=0.25%C	Annealed	5-20	5-20 *	10-40 *	E/O
		<0.55%C	Quenched and tempered	-	2-15 *	5-25 *	E/O
		>=0.55%C	Annealed	5-20	5-20 *	10-40 *	E/O
			Quenched and tempered	-	2-15 *	5-25 *	E/O
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	5-25	5-25 *	15-45 *	E/O
			Quenched and tempered	-	2-15 *	5-20 *	E/O
	High alloy steel, cast steel and tool steel		Annealed	5-20	5-20	10-40 *	E/O
			Quenched and tempered	-	-	5-20	O/S
M	Stainless steel and cast steel		Ferritic / martensitic	-	2-10 *	5-20 *	E/O
			Martensitic	-	2-10 *	5-20 *	E/O
			Austenitic	-	2-10 *	5-20 *	E/O
K	Gray cast iron (GG)		Ferritic	10-15	10-25	15-45	E/D
			Pearlitic	10-15	10-20	10-40	E/D
	Cast iron nodular (GGG)		Ferritic	8-12	5-20	10-30	E/D
			Pearlitic	8-12	5-15	10-25	E/D
	Malleable cast iron		Ferritic	10-15	10-25	15-45	E/D
			Pearlitic	10-15	10-20	10-40	E/D
N	Aluminum - wrought alloy		Not cureable	15-25 *	15-25	15-25	E/O
			Cured	15-25 *	15-25	15-25	E/O
	Aluminum-cast, alloyed	<=12% Si	Not cureable	15-20 *	10-20	15-40 *	E/O
			Cured	15-20 *	10-20	15-40 *	E/O
		>12% Si	High temp.	15-20 *	15-20	10-30	E/O
	Copper alloys	>1% Pb	Free cutting	15-25 *	15-25	10-30	E/O
			Brass	10-40	10-40	50-60	E/O
			Electrolitic copper	10-15 *	2-10	5-25	E/O
	Non-metallic		Duroplastics, fiber plastics	-	10-20	10-20	D
			Hard rubber	-	10-20	10-20	D
S	High temp. alloys	Fe based	Annealed	-	-	3-5	S
			Cured	-	-	3-5	S
		Ni or Co based	Annealed	-	-	2-4	S
			Cured	-	-	2-4	S
			Cast	-	-	2-4	S
	Titanium, Ti alloys			-	-	4-6	S
			Alpha+beta alloys cured	-	-	4-6	S

* : Recommended

• For more information of material groups, see the materials & grades "material conversion table"

Steel Stainless steel Cast iron Nonferrous High temp. alloys Hardened steel

• **Lubrication** **E:** Emulsion **O:** Cutting oil **S:** Special cutting oil **D:**Dry/air

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INDUSTRY4.0

HOLEMAKING



HOLEMAKING

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Guide to Icons


› External Coolant

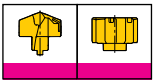

› Internal Coolant


› Through Hole


› Blind Hole



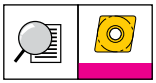
› Tube Page

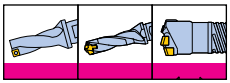

› Head Page



› Pad Page


› Cartridge Page


› Insert Page


› Drill Body & Deep Drill Head Page



› Assembly Page



› Technical Data Page



› Cutting Condition Page



Reaming Tools	
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TM-REAM	D228
TB-REAM	D230
Reaming Heads & Blades	D233
Recommended Cutting Conditions (Reaming)	D236
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Tool Selection Guide

Drilling tools

Series			Indexable drill				
			TOPDRILL		TDRILL		TDEEP
			TOP 2/3/4/5	TOP-CA	TDR 2/3/4/5	TDR-CA	TRGD/TRGD3
							
Pages			D16 - D27	D28 - D31	D32 - D44	D45 - D47	D144 - D150
DC(mm)			Ø12.0 - Ø50.0	Ø51.0 - Ø80.0	Ø12.5 - Ø50.0	Ø51.0 - Ø80.0	Ø14.0 - Ø36.0
Drilling depth(L/D)			2, 3, 4, 5 x Dc	2, 3, 4 x Dc	2, 3, 4, 5 x Dc	2.5, 3.5 x Dc	10-25 x Dc
Hole tolerance			IT 11-13	IT 12-13	IT 12-13	IT 12-13	IT 10-11
Application	General drilling		●	●	●	●	●
	Cross hole drilling		●	●	●	●	○
	Irregular surface drilling		○	○	○	○	
	Interrupted drilling		○	○	○	○	
	Chamfering						
Coolant supply			Internal	Internal	Internal	Internal	Internal

Tool Selection Guide

Drilling tools

Head changeable drill					Solid carbide drill
DRILLSPEED	DRILLRUSH		MODURDRILL	SPADERUSH	SOLID3DRILL
3ED	**TCD**	**TCD-M**	**TNDH-TP/MDB**	**LCD**	**3HD**
					
D49 - D50	D51 - D59	D60	D62 - D65	D66 - D68	D69 - D70
Ø15.0 - Ø20.9	Ø6.0 - Ø25.9	M8 - M24 (ISO)	Ø26.0 - Ø50.0	Ø20.0 - Ø41.0	Ø4.0 - Ø12.0
3, 5 x Dc	1.5, 3, 5, 8, 12 x Dc		3, 5 x Dc	3, 5, 8 x Dc	3, 5 x Dc
IT 9-10	IT 9-10	IT 9-10	IT 10-12	IT 9-10	IT 8-10
●	●	●	●	●	●
○	●		●	●	●
		●			
Internal	Internal	Internal	Internal	Internal	Internal

● Recommended, ○ Suitable

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Tool Selection Guide

Drilling tools

Series			Solid carbide drill					Multi-function
			HDRILL					TOPCAP
			NHD-PE/PI	NHD-KI	SHO 10/15/20	SHO-M	CDF	TCAP
								
Pages			D71 - D82	D83 - D84	D86	D87	D88	D91 - D95
DC(mm)			Ø3.0 - Ø12.0	Ø3.0 - Ø12.0	Ø4.0 - Ø10.0	M4 - M10 (ISO)	Ø3.0 - Ø12.7	Ø8.0 - Ø32.0
Drilling depth(L/D)			3, 5 x Dc	3, 5 x Dc	10, 15, 20 x Dc			2.25, 3 x Dc
Hole tolerance			IT 8-10	IT 8-10	IT 8-10	IT 8-10	IT 8-10	IT 10-12
Application	General drilling		●	●	●	●	●	●
	Cross hole drilling		●	●	○			
	Irregular surface drilling							●
	Interrupted drilling							
	Chamfering					●		
Coolant supply			External / Internal	Internal	Internal	Internal	External	Internal

● Recommended, ○ Suitable

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Tool Selection Guide

Deep drilling tools

Series		Indexable deep drill head				
		TDEEP				
		TBTA3 	**TBTA5** 	**TBTA7** 	**TBTA9** 	**TBTA-FB** 
Pages		D99 - D104	D105 - D108	D109 - D111	D112 - D114	D115 - D120
DC(mm)		Ø38.00 - Ø106.99	Ø107.00 - Ø168.99	Ø169.00 - Ø232.99	Ø233.00 - Ø293.99	Ø25.00 - Ø89.00
Drilling depth(L/D)		100 x Dc	100 x Dc	100 x Dc	100 x Dc	100 x Dc
Hole tolerance		IT 10	IT 10	IT 10	IT 10	IT 10
Surface finish		3μm	3μm	3μm	3μm	3μm
Single tube	Outer four thread	●	●	●	●	●
	Inner single thread	●	●	●★	●	●
Double tube	Outer four thread	●	●			●

★ In case of inner single thread connection TBTA7 series can cover up to dia. 245.99mm

Series		Indexable deep drill & boring head		Brazed deep drill head	
		TDEEP			
		TBTA-TR 	**TBTA-R** 	**BTA-SE/DE** 	**BTS-SE** 
Pages		D127 - D130	D121 - D126	D131 - D133	D134
DC(mm)		Ø16.00 - Ø40.00	Ø25.00 - Ø110.99	Ø12.60 - Ø65.00	Ø8.00 - Ø20.00
Drilling depth(L/D)		100 x Dc	100 x Dc	100 x Dc	100 x Dc
Hole tolerance		IT 10	IT 7 - IT 9	IT 9	IT 9
Surface finish		3μm	1-2μm	2μm	2μm
Single tube	Outer four thread	●	●	●	●★
	Inner single thread	●	●		
Double tube	Outer four thread	●		●	

★ Two start thread: Diameter 12.60 to 15.59mm

● Recommended

Tool Selection Guide

Reaming tools

Series				Solid reamer	Indexable reamer	
				TSREAM	TMREAM	TBREAM
				TS	TM	TB
						
Pages				D226 - D227	D228 - D229	D230 - D232
DC(mm)				Ø3.000 - Ø12.000	Ø11.501 - Ø32.000	Ø8.000 - Ø32.000
Reaming depth(L/D)				7.5-10 x Dc	3, 5, 8 x Dc	5-9 x Dc
Hole tolerance				IT 7	IT 7★	IT 6★★
Application		**Through**	**Blind**			
	General reaming			●	●	●
	Cross hole reaming			●		●
	Irregular surface reaming			●		●
	Interrupted reaming			●	●	●
Coolant supply				Internal	Internal	Internal

★ Up to IT 6 tolerance ★★ Up to IT 5 tolerance ● Recommended

ADVANCE MACHINING TaeguTec Industry 4.0

Tool Selection Guide

Drill inserts

Series			TOPDRILL	TDRILL	DRILLSPEED	DRILLRUSH	
			SOMT	SPMG / SPGG	3ED-P+	TCD-P/M/K/N	TCD-P+
							
Pages			D152 - D153	D154 - D155	D156 - D157	D158 - D164	D165 - D169
Size			04/05/06/07/08 09/11/13/15	05/06/07/09 11/12/14	Ø15.0 - Ø20.9	Ø6.0 - Ø25.9	Ø6.0 - Ø25.9
Chip former			DP, DK, DL, DA	DG, DK, DA	P+	P/M/K/N	P+
Grades			TT9080, TT9300 TT8020, TT6080 K10	TT9030, TT8020 TT7400, TT6030 K10	TT5130	TT9080 UF10	TT9080
Application	General drilling		●	●	●	●	●
	Cross hole drilling		●	●	●	●	●
	Irregular surface drilling		○	○	○	○	○
	Interrupted drilling		○	○			
	Chamfering						

● Recommended, ○ Suitable

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Tool Selection Guide

Drill inserts

Series			DRILLRUSH		MODURDRILL	
			TCD-F	AOMT	TCD-P-CO+	SPGX...DW
						
Pages			D170 - D171	D172	D173	D173
Size			Ø8.0 - Ø25.5	06 - C45	Ø15.9 - Ø25.9	06/07/09/11/14
Chip former			F	-	P-CO+	DW
Grades			TT9080	TT9080	TT9080	TT9080
Application	General drilling		●		●	●
	Cross hole drilling		●		●	●
	Irregular surface drilling		○		○	○
	Interrupted drilling					
	Chamfering			●		

Tool Selection Guide

Drill inserts

SPADERUSH		DRILLRUSH	TCHAMFER	TOPCAP
LCD-P	**LCD-F**	**CRNG**	**XCGT**	**XCGT XCMT**
				
D174 - D175	D176 - D177	D172	D178	D179 - D180
Ø20.0 - Ø41.0	Ø20.0 - Ø41.0	08 - 45CD	06/09	04/05/06/07/08 10/13/17
P	F	-	C30/C45/C60	TA/GV/TC
TT9080	TT9080	TT9080	TT9080	TT9080, TT8020, TT9030, K10
●				●
●				
○				
	●		●	

● Recommended, ○ Suitable

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Tool Selection Guide

Drill inserts

Series			TDEEP			
			NPHT NPMT 	**NPMX TPMX** 	**TOGT** 	**TPMX XPMT** 
Pages			D181 - D183	D184	D185	D186
Size			06/07/08/09 /11/13	08/14/17/24/28	07/08/09/10/11 /12/13/14	14/16/17/24
Chip former			R(L)-G ... /R(L)-HF...	R-B/R-G	RS/GF	LG/-45
Grades			TT9030, TT9130, TT8125, TT6130, TT5030	TT9030, TT9130, TT8125, TT7200, TT6130, TT6020, TT5100, TT5030	TT9030	TT9030, TT9130, TT6020, TT5100
Application	General drilling		●	●	●	●
	Cross hole drilling		○	○		○
	Irregular surface drilling					
	Interrupted drilling					
	Chamfering					

ADVANCE MACHINING
TaeguTec Industry 4.0

Tool Selection Guide

Reamer heads & blades

Series				TMREAM TM 	TBREAM TB 
Pages				D233 - D234	D235
Size				Ø11.501 - Ø32.000	1/2/3/4
Chip former				BL/AS	A06/B06/B12
Grades				TT9030	TT5030, TT5050
Application		Through	Blind		
	General reaming			●	●
	Cross hole reaming				
	Irregular surface reaming				
	Interrupted reaming				

● Recommended, ○ Suitable

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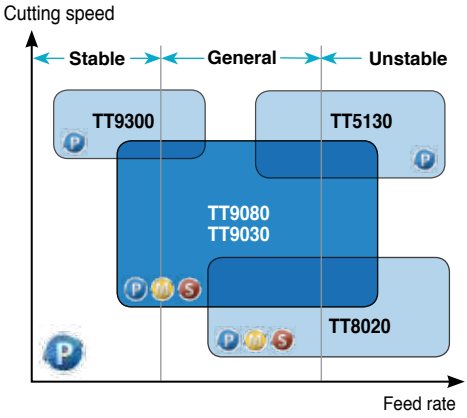
Grades

Holemaking grades

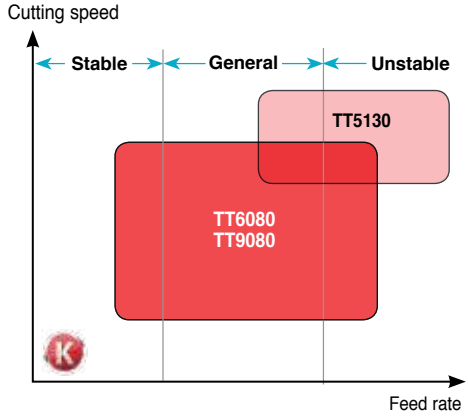
Grades	ISO	Characteristics & applications
TT6080 PVD carbide	K05 – K25 H05 – H25	• General machining for gray and ductile cast iron • Finish and medium machining of hardened steel
TT9300 CVD carbide	P10 – P25	• High speed drilling of carbon & alloy steel
TT5130 PVD carbide	P20 – P40 K20 – K40	• High speed drilling of carbon & alloy steel
TT9080 PVD carbide	P20 – P40 M20 – M40 S20 – S40	• General machining of steel • General machining of stainless steel • General machining of heat-resistant alloy
TT9030 PVD carbide	P20 – P40 M20 – M40 S20 – S40	• General machining of steel • General machining of stainless steel • General machining of heat-resistant alloy
TT8020 PVD carbide	P30 – P50 M30 – M50 S30 – S50	• Interrupted and rough machining of steel • Interrupted and rough machining of stainless steel • Low speed and interrupted machining of heat-resistant alloy
K10 Uncoated	K05 – K15 N05 – N15 S05 – S15	• General machining of cast iron • General machining of aluminum alloys and non-ferrous materials • General machining of heat-resistant alloy
UF1A/UF10 Uncoated	N10 – N25 S10 – S30	• General machining of aluminum alloys and non-ferrous materials • General machining of heat-resistant alloy

Selection guide for holemaking grades

For steel



For cast iron

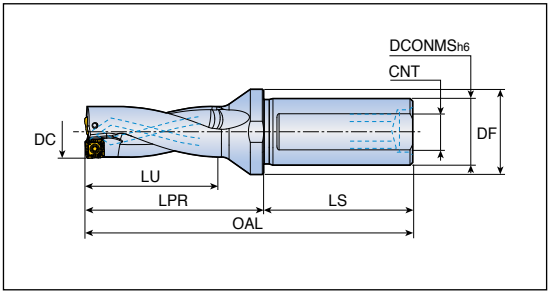


Drilling Tools



Indexable drill holders





• Drilling depth: 2xdiameter

Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TOP 2120-20T2-04	12.0	20	25	24	44	50	M13X1.0	SOMT 04...DP
2125-20T2-04	12.5	20	25	26	46	50	M13X1.0	D152
2130-20T2-04	13.0	20	25	26	46	50	M13X1.0	
2135-20T2-04	13.5	20	25	28	46	50	M13X1.0	
2140-20T2-05	14.0	20	25	28	46	50	M13X1.0	SOMT 05...DP/DL/DK/DA
2145-20T2-05	14.5	20	25	30	49	50	M13X1.0	D152-153
2150-20T2-05	15.0	20	25	30	49	50	M13X1.0	
2155-20T2-05	15.5	20	25	32	52	50	M13X1.0	
2160-20T2-05	16.0	20	25	32	52	50	M13X1.0	
2165-25T2-06	16.5	25	32	34	54	56	M16X1.5	SOMT 06...DP/DL/DK/DA
2170-25T2-06	17.0	25	32	34	54	56	M16X1.5	D152-153
2175-25T2-06	17.5	25	32	36	57	56	M16X1.5	
2180-25T2-06	18.0	25	32	36	57	56	M16X1.5	
2185-25T2-06	18.5	25	32	38	59	56	M16X1.5	
2190-25T2-06	19.0	25	32	38	59	56	M16X1.5	
2195-25T2-07	19.5	25	32	40	63	56	M16X1.5	SOMT 07...DP/DL/DK/DA
2200-25T2-07	20.0	25	32	40	63	56	M16X1.5	D152-153
2205-25T2-07	20.5	25	32	42	65	56	M16X1.5	
2210-25T2-07	21.0	25	32	42	65	56	M16X1.5	
2215-25T2-07	21.5	25	32	44	67	56	M16X1.5	
2220-25T2-07	22.0	25	32	44	67	56	M16X1.5	
2225-25T2-08	22.5	25	32	46	68	56	M16X1.5	SOMT 08...DP/DL/DK/DA
2230-25T2-08	23.0	25	32	46	68	56	M16X1.5	D152-153
2230-32T2-08	23.0	32	40	46	68	60	M22X2.0	
2235-25T2-08	23.5	25	32	48	70	56	M16X1.5	
2235-32T2-08	23.5	32	40	48	70	60	M22X2.0	
2240-25T2-08	24.0	25	32	48	70	56	M16X1.5	
2240-32T2-08	24.0	32	40	48	70	60	M22X2.0	
2245-25T2-08	24.5	25	32	50	72	56	M16X1.5	
2245-32T2-08	24.5	32	40	50	72	60	M22X2.0	
2250-25T2-08	25.0	25	32	50	72	56	M16X1.5	
2250-32T2-08	25.0	32	40	50	72	60	M22X2.0	
2255-25T2-08	25.5	25	32	52	73	56	M16X1.5	
2255-32T2-08	25.5	32	40	52	73	60	M22X2.0	
2260-25T2-08	26.0	25	32	52	73	56	M16X1.5	
2260-32T2-08	26.0	32	40	52	73	60	M22X2.0	

Cutting Condition D192

• OAL = LPR+LS

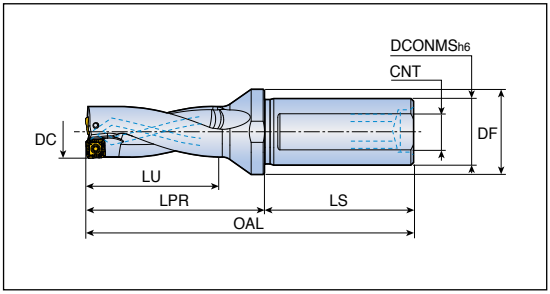
TOP 2...-T2

TOPDRILL

Indexable drill holders



• Drilling depth: 2xdiameter



Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TOP 2265-32T2-09	26.5	32	40	54	77	60	M22X2.0	SOMT 09...DP/DL/DK/DA
2270-25T2-09	27.0	25	40	54	77	56	M16X1.5	D152-153
2270-32T2-09	27.0	32	40	54	77	60	M22X2.0	
2275-32T2-09	27.5	32	40	56	79	60	M22X2.0	
2280-25T2-09	28.0	25	40	56	79	56	M16X1.5	
2280-32T2-09	28.0	32	40	56	79	60	M22X2.0	
2285-32T2-09	28.5	32	40	58	81	60	M22X2.0	
2290-25T2-09	29.0	25	40	58	81	56	M16X1.5	
2290-32T2-09	29.0	32	40	58	81	60	M22X2.0	
2295-32T2-09	29.5	32	40	60	83	60	M22X2.0	
2300-32T2-09	30.0	32	40	60	83	60	M22X2.0	
2305-32T2-09	30.5	32	40	62	85	60	M22X2.0	
2310-32T2-09	31.0	32	40	62	85	60	M22X2.0	
2320-32T2-11	32.0	32	40	64	87	60	M22X2.0	SOMT 11...DP/DL/DK/DA
2320-40T2-11	32.0	40	50	64	87	70	M30X2.0	D152-153
2330-32T2-11	33.0	32	40	66	89	60	M22X2.0	
2330-40T2-11	33.0	40	50	66	89	70	M30X2.0	
2340-32T2-11	34.0	32	40	68	91	60	M22X2.0	
2340-40T2-11	34.0	40	50	68	91	70	M30X2.0	
2350-32T2-11	35.0	32	40	70	93	60	M22X2.0	
2350-40T2-11	35.0	40	50	70	93	70	M30X2.0	
2360-32T2-11	36.0	32	40	72	95	60	M22X2.0	
2360-40T2-11	36.0	40	50	72	95	70	M30X2.0	
2370-32T2-13	37.0	32	50	74	102	60	M22X2.0	SOMT 13...DP/DL/DK/DA
2370-40T2-13	37.0	40	50	74	102	70	M30X2.0	D152-153
2380-32T2-13	38.0	32	50	76	104	60	M22X2.0	
2380-40T2-13	38.0	40	50	76	104	70	M30X2.0	
2390-32T2-13	39.0	32	50	78	106	60	M22X2.0	
2390-40T2-13	39.0	40	50	78	106	70	M30X2.0	
2400-32T2-13	40.0	32	50	80	108	60	M22X2.0	
2400-40T2-13	40.0	40	50	80	108	70	M30X2.0	
2410-40T2-13	41.0	40	50	82	110	70	M30X2.0	
2420-40T2-13	42.0	40	50	84	112	70	M30X2.0	
2430-40T2-13	43.0	40	50	86	114	70	M30X2.0	

Cutting Condition D192

• OAL = LPR+LS

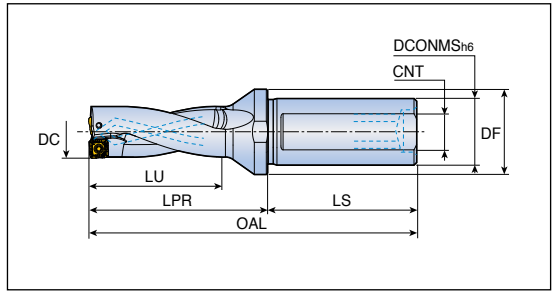
TaeguTec

Indexable drill holders



• Drilling depth: 2xdiameter





Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TOP 2440-40T2-15	44.0	40	60	88	123	70	M30X2.0	SOMT 15...DP/DL/DK/DA
2450-40T2-15	45.0	40	60	90	125	70	M30X2.0	D152-153
2460-40T2-15	46.0	40	60	92	127	70	M30X2.0	
2470-40T2-15	47.0	40	60	94	129	70	M30X2.0	
2480-40T2-15	48.0	40	60	96	131	70	M30X2.0	
2490-40T2-15	49.0	40	60	98	133	70	M30X2.0	
2500-40T2-15	50.0	40	60	100	135	70	M30X2.0	

• OAL = LPR+LS

Spare parts

Designation	Screw	Wrench	Plug*	
TOP 2120 - 2135	TS 18041I/HG	TD 6P	SL 20M	
TOP 2140 - 2160	TS 20043I/HG-P	TD 6P	SL 20M	
TOP 2165 - 2220	TS 22052I/HG-P	TD 7P	SL 25M	
TOP 2225 - 2260	SO 25065I	TD 7	SL 25M / SL 32M	
TOP 2265 - 2360	TS 35088I	TD 10	SL 25M / SL 32M / SL 40M	
TOP 2370 - 2430	TS 40093I	TD 15	SL 32M / SL 40M	
TOP 2440 - 2550	TS 50115I	TD 20	SL 40M	

Cutting Condition D192

• *Notice: Cooling hole plug for lathe should be ordered separately
Order example) Plug for shank diameter 25.0mm : SL 25M

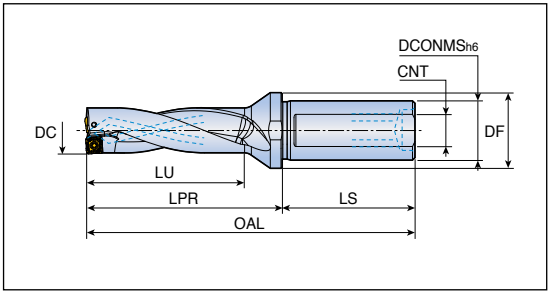
TOP 3...-T2

TOPDRILL

Indexable drill holders



• Drilling depth: 3xdiameter



Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TOP 3120-20T2-04	12.0	20	25	36	56	50	M13X1.0	SOMT 04...DP
3125-20T2-04	12.5	20	25	39	59	50	M13X1.0	D152-153
3130-20T2-04	13.0	20	25	39	59	50	M13X1.0	
3135-20T2-04	13.5	20	25	42	60	50	M13X1.0	
3140-20T2-05	14.0	20	25	42	60	50	M13X1.0	SOMT 05...DP/DL/DK/DA
3145-20T2-05	14.5	20	25	45	64	50	M13X1.0	D152-153
3150-20T2-05	15.0	20	25	45	64	50	M13X1.0	
3155-20T2-05	15.5	20	25	48	68	50	M13X1.0	
3160-20T2-05	16.0	20	25	48	68	50	M13X1.0	
3165-25T2-06	16.5	25	32	51	71	56	M16X1.5	SOMT 06...DP/DL/DK/DA
3167-25T2-06 *	16.7	25	32	51	71	56	M16X1.5	D152-153
3170-25T2-06	17.0	25	32	51	71	56	M16X1.5	
3175-25T2-06	17.5	25	32	54	75	56	M16X1.5	
3180-25T2-06	18.0	25	32	54	75	56	M16X1.5	
3185-25T2-06	18.5	25	32	57	78	56	M16X1.5	
3190-25T2-06	19.0	25	32	57	78	56	M16X1.5	
3195-25T2-07	19.5	25	32	60	83	56	M16X1.5	SOMT 07...DP/DL/DK/DA
3200-25T2-07	20.0	25	32	60	83	56	M16X1.5	D152-153
3205-25T2-07	20.5	25	32	63	86	56	M16X1.5	
3210-25T2-07	21.0	25	32	63	86	56	M16X1.5	
3215-25T2-07	21.5	25	32	66	89	56	M16X1.5	
3220-25T2-07	22.0	25	32	66	89	56	M16X1.5	
3222-25T2-07 *	22.2	25	32	66	89	56	M16X1.5	
3225-25T2-08	22.5	25	32	69	91	56	M16X1.5	SOMT 08...DP/DL/DK/DA
3230-25T2-08	23.0	25	32	69	91	56	M16X1.5	D152-153
3230-32T2-08	23.0	32	40	69	91	60	M22X2.0	
3235-25T2-08	23.5	25	32	72	94	56	M16X1.5	
3235-32T2-08	23.5	32	40	72	94	60	M22X2.0	
3240-25T2-08	24.0	25	32	72	94	56	M16X1.5	
3240-32T2-08	24.0	32	40	72	94	60	M22X2.0	
3245-25T2-08	24.5	25	32	75	97	56	M16X1.5	
3245-32T2-08	24.5	32	40	75	97	60	M22X2.0	
3250-25T2-08	25.0	25	32	75	97	56	M16X1.5	
3250-32T2-08	25.0	32	40	75	97	60	M22X2.0	
3254-25T2-08 *	25.4	25	32	75	97	56	M16X1.5	

Cutting Condition D192

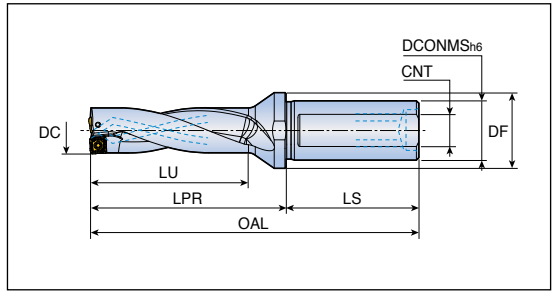
• '*' Marked items are for inch sized hole
• OAL = LPR+LS

Indexable drill holders



• Drilling depth: 3xdiameter





Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TOP 3255-25T2-08	25.5	25	32	78	99	56	M16X1.5	SOMT 08...DP/DL/DK/DA
3255-32T2-08	25.5	32	40	78	99	60	M22X2.0	D152-153
3260-25T2-08	26.0	25	32	78	99	56	M16X1.5	
3260-32T2-08	26.0	32	32	78	99	60	M22X2.0	
3265-25T2-09	26.5	25	40	81	104	56	M16X1.5	SOMT 09...DP/DL/DK/DA
3265-32T2-09	26.5	32	40	81	104	60	M22X2.0	D152-153
3270-25T2-09	27.0	25	40	81	104	56	M16X1.5	
3270-32T2-09	27.0	32	40	81	104	60	M22X2.0	
3275-25T2-09	27.5	25	40	84	107	56	M16X1.5	
3275-32T2-09	27.5	32	40	84	107	60	M22X2.0	
3280-25T2-09	28.0	25	40	84	107	56	M16X1.5	
3280-32T2-09	28.0	32	40	84	107	60	M22X2.0	
3285-25T2-09	28.5	25	40	87	110	56	M16X1.5	
3285-32T2-09	28.5	32	40	87	110	60	M22X2.0	
3290-25T2-09	29.0	25	40	87	110	56	M16X1.5	
3290-32T2-09	29.0	32	40	87	110	60	M22X2.0	
3295-32T2-09	29.5	32	40	90	113	60	M22X2.0	
3300-32T2-09	30.0	32	40	90	113	60	M22X2.0	
3305-32T2-09	30.5	32	40	93	116	60	M22X2.0	
3310-32T2-09	31.0	32	40	93	116	60	M22X2.0	
3320-32T2-11	32.0	32	40	96	119	60	M22X2.0	SOMT 11...DP/DL/DK/DA
3320-40T2-11	32.0	40	50	96	119	70	M30X2.0	D152-153
3330-32T2-11	33.0	32	40	99	122	60	M22X2.0	
3330-40T2-11	33.0	40	50	99	122	70	M30X2.0	
3340-32T2-11	34.0	32	40	102	125	60	M22X2.0	
3340-40T2-11	34.0	40	50	102	125	70	M30X2.0	
3350-32T2-11	35.0	32	40	105	128	60	M22X2.0	
3350-40T2-11	35.0	40	50	105	128	70	M30X2.0	
3360-32T2-11	36.0	32	40	108	131	60	M22X2.0	
3360-40T2-11	36.0	40	50	108	131	70	M30X2.0	
3370-32T2-13	37.0	32	50	111	139	60	M22X2.0	SOMT 13...DP/DL/DK/DA
3370-40T2-13	37.0	40	50	111	139	70	M30X2.0	D152-153
3380-32T2-13	38.0	32	50	114	142	60	M22X2.0	
3380-40T2-13	38.0	40	50	114	142	70	M30X2.0	
3390-32T2-13	39.0	32	50	117	145	60	M22X2.0	

Cutting Condition D192

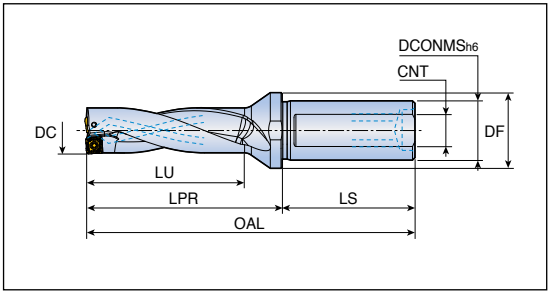
• OAL = LPR+LS

TOP 3...-T2

TOPDRILL

Indexable drill holders





• Drilling depth: 3xdiameter



Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TOP 3390-40T2-13	39.0	40	50	117	145	70	M30X2.0	SOMT 13...DP/DL/DK/DA
3400-32T2-13	40.0	32	50	120	148	60	M22X2.0	D152-153
3400-40T2-13	40.0	40	50	120	148	70	M30X2.0	
3410-40T2-13	41.0	40	50	123	151	70	M30X2.0	
3420-40T2-13	42.0	40	50	126	154	70	M30X2.0	
3430-40T2-13	43.0	40	50	129	157	70	M30X2.0	
3440-40T2-15	44.0	40	60	132	167	70	M30X2.0	SOMT 15...DP/DL/DK/DA
3450-40T2-15	45.0	40	60	135	170	70	M30X2.0	D152-153
3460-40T2-15	46.0	40	60	138	173	70	M30X2.0	
3470-40T2-15	47.0	40	60	141	176	70	M30X2.0	
3480-40T2-15	48.0	40	60	144	179	70	M30X2.0	
3490-40T2-15	49.0	40	60	147	182	70	M30X2.0	
3500-40T2-15	50.0	40	60	150	185	70	M30X2.0	

• OAL = LPR+LS

Spare parts

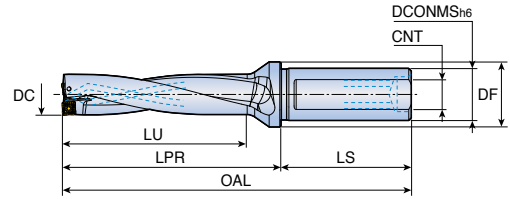
Designation	Screw	Wrench	Plug*	
				
TOP 3120 - 3135	TS 18041I/HG	TD 6P	SL 20M	
TOP 3140 - 3160	TS 20043I/HG-P	TD 6P	SL 20M	
TOP 3165 - 3220	TS 22052I/HG-P	TD 7P	SL 25M	
TOP 3225 - 3260	SO 25065I	TD 7	SL 25M / SL 32M	
TOP 3265 - 3360	TS 35088I	TD 10	SL 25M / SL 32M / SL 40M	
TOP 3370 - 3430	TS 40093I	TD 15	SL 32M / SL 40M	
TOP 3440 - 3500	TS 50115I	TD 20	SL 40M	

Cutting Condition D192

• *Notice: Cooling hole plug for lathe should be ordered separately
Order example) Plug for shank diameter 25.0mm : SL 25M

Indexable drill holders





• Drilling depth: 4xdiameter



Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TOP 4120-20T2-04	12.0	20	25	48	68	50	M13X1.0	SOMT 04...DP
4125-20T2-04	12.5	20	25	52	72	50	M13X1.0	D152
4130-20T2-04	13.0	20	25	52	72	50	M13X1.0	
4135-20T2-04	13.5	20	25	56	74	50	M13X1.0	
4140-20T2-05	14.0	20	25	56	74	50	M13X1.0	SOMT 05...DP/DL/DK/DA
4145-20T2-05	14.5	20	25	60	79	50	M13X1.0	D152-153
4150-20T2-05	15.0	20	25	60	79	50	M13X1.0	
4155-20T2-05	15.5	20	25	64	84	50	M13X1.0	
4160-20T2-05	16.0	20	25	64	84	50	M13X1.0	
4165-25T2-06	16.5	25	32	68	88	56	M16X1.5	SOMT 06...DP/DL/DK/DA
4170-25T2-06	17.0	25	32	68	88	56	M16X1.5	D152-153
4175-25T2-06	17.5	25	32	72	93	56	M16X1.5	
4180-25T2-06	18.0	25	32	72	93	56	M16X1.5	
4185-25T2-06	18.5	25	32	76	97	56	M16X1.5	
4190-25T2-06	19.0	25	32	76	97	56	M16X1.5	
4195-25T2-07	19.5	25	32	80	103	56	M16X1.5	SOMT 07...DP/DL/DK/DA
4200-25T2-07	20.0	25	32	80	103	56	M16X1.5	D152-153
4205-25T2-07	20.5	25	32	84	107	56	M16X1.5	
4210-25T2-07	21.0	25	32	84	107	56	M16X1.5	
4215-25T2-07	21.5	25	32	88	111	56	M16X1.5	
4220-25T2-07	22.0	25	32	88	111	56	M16X1.5	
4225-25T2-08	22.5	25	32	92	114	56	M16X1.5	SOMT 08...DP/DL/DK/DA
4230-25T2-08	23.0	25	32	92	114	56	M16X1.5	D152-153
4230-32T2-08	23.0	32	40	92	114	60	M22X2.0	
4235-25T2-08	23.5	25	32	96	118	56	M16X1.5	
4235-32T2-08	23.5	32	40	96	118	60	M22X2.0	
4240-25T2-08	24.0	25	32	96	118	56	M16X1.5	
4240-32T2-08	24.0	32	40	96	118	60	M22X2.0	
4245-25T2-08	24.5	25	32	100	122	56	M16X1.5	
4245-32T2-08	24.5	32	40	100	122	60	M22X2.0	
4250-25T2-08	25.0	25	32	100	122	56	M16X1.5	
4250-32T2-08	25.0	32	40	100	122	60	M22X2.0	
4254-25T2-08 *	25.4	25	32	100	122	56	M16X1.5	
4255-25T2-08	25.5	25	32	104	125	56	M16X1.5	
4255-32T2-08	25.5	32	40	104	125	60	M22X2.0	

Cutting Condition D192

• '*' Marked items are for inch sized hole
• OAL = LPR+LS

TOP 4...-T2

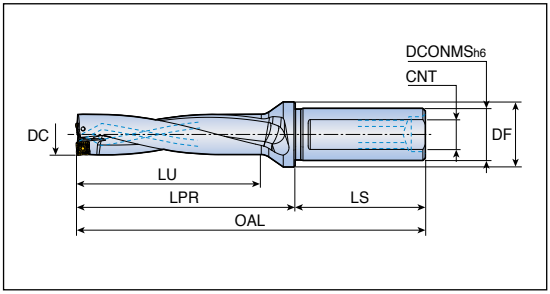
TOPDRILL

Indexable drill holders



• Drilling depth: 4xdiameter





Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TOP 4260-25T2-08	26.0	25	32	104	125	56	M16X1.5	SOMT 08...DP/DL/DK/DA
4260-32T2-08	26.0	32	40	104	125	60	M22X2.0	D152-153
4265-25T2-09	26.5	25	40	108	131	56	M16X1.5	SOMT 09...DP/DL/DK/DA
4265-32T2-09	26.5	32	40	108	131	60	M22X2.0	D152-153
4270-25T2-09	27.0	25	40	108	131	56	M16X1.5	
4270-32T2-09	27.0	32	40	108	131	60	M22X2.0	
4275-25T2-09	27.5	25	40	112	135	56	M16X1.5	
4275-32T2-09	27.5	32	40	112	135	60	M22X2.0	
4280-25T2-09	28.0	25	40	112	135	56	M16X1.5	
4280-32T2-09	28.0	32	40	112	135	60	M22X2.0	
4285-25T2-09	28.5	25	40	116	139	56	M16X1.5	
4285-32T2-09	28.5	32	40	116	139	60	M22X2.0	
4286-32T2-09 *	28.6	32	40	116	139	60	M22X2.0	
4290-25T2-09	29.0	25	40	116	139	56	M16X1.5	
4290-32T2-09	29.0	32	40	116	139	60	M22X2.0	
4295-32T2-09	29.5	32	40	120	143	60	M22X2.0	
4300-32T2-09	30.0	32	40	120	143	60	M22X2.0	
4305-32T2-09	30.5	32	40	124	147	60	M22X2.0	
4310-32T2-09	31.0	32	40	124	147	60	M22X2.0	
4318-32T2-11 *	31.8	32	40	128	151	60	M22X2.0	SOMT 11...DP/DL/DK/DA
4320-32T2-11	32.0	32	40	128	151	60	M22X2.0	D152-153
4320-40T2-11	32.0	40	50	128	151	70	M30X2.0	
4330-32T2-11	33.0	32	40	132	155	60	M22X2.0	
4330-40T2-11	33.0	40	50	132	155	70	M30X2.0	
4340-32T2-11	34.0	32	40	136	159	60	M22X2.0	
4340-40T2-11	34.0	40	50	136	159	70	M30X2.0	
4349-40T2-11 *	34.9	40	50	140	163	70	M30X2.0	
4350-32T2-11	35.0	32	40	140	163	60	M22X2.0	
4350-40T2-11	35.0	40	50	140	163	70	M30X2.0	
4360-32T2-11	36.0	32	40	144	167	60	M22X2.0	
4360-40T2-11	36.0	40	50	144	167	70	M30X2.0	
4370-32T2-13	37.0	32	50	148	176	60	M22X2.0	SOMT 13...DP/DL/DK/DA
4370-40T2-13	37.0	40	50	148	176	70	M30X2.0	D152-153
4371-40T2-13 *	37.1	40	50	148	176	70	M30X2.0	

Cutting Condition D192

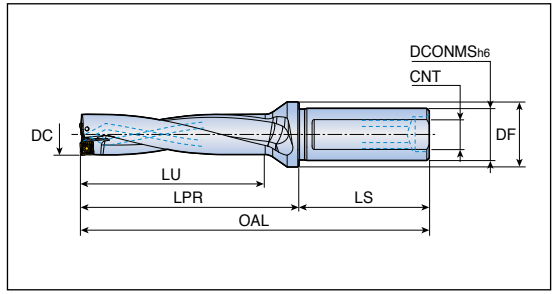
• '*' Marked items are for inch sized hole
• OAL = LPR+LS

Indexable drill holders



• Drilling depth: 4xdiameter





Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TOP 4380-32T2-13	38.0	32	50	152	180	60	M22X2.0	SOMT 13...DP/DL/DK/DA
4380-40T2-13	38.0	40	50	152	180	70	M30X2.0	D152-153
4381-40T2-13 *	38.1	40	50	152	180	70	M30X2.0	
4390-32T2-13	39.0	32	50	156	184	60	M22X2.0	
4390-40T2-13	39.0	40	50	156	184	70	M30X2.0	
4400-32T2-13	40.0	32	50	160	188	60	M22X2.0	
4400-40T2-13	40.0	40	50	160	188	70	M30X2.0	
4410-40T2-13	41.0	40	50	164	192	70	M30X2.0	
4413-40T2-13 *	41.3	40	50	164	192	70	M30X2.0	
4420-40T2-13	42.0	40	50	168	196	70	M30X2.0	
4429-40T2-13 *	42.9	40	50	172	200	70	M30X2.0	
4430-40T2-13	43.0	40	50	172	200	70	M30X2.0	
4440-40T2-15	44.0	40	60	176	211	70	M30X2.0	SOMT 15...DP/DL/DK/DA
4445-40T2-15 *	44.5	40	60	180	215	70	M30X2.0	D152-153
4450-40T2-15	45.0	40	60	180	215	70	M30X2.0	
4460-40T2-15	46.0	40	60	184	219	70	M30X2.0	
4470-40T2-15	47.0	40	60	188	223	70	M30X2.0	
4476-40T2-15 *	47.6	40	60	192	227	70	M30X2.0	
4480-40T2-15	48.0	40	60	192	227	70	M30X2.0	
4490-40T2-15	49.0	40	60	196	231	70	M30X2.0	
4500-40T2-15	50.0	40	60	200	235	70	M30X2.0	
4508-40T2-15 *	50.8	40	60	204	239	70	M30X2.0	

• '*' Marked items are for inch sized hole
• OAL = LPR+LS

Spare parts

Designation	Screw	Wrench	Plug*	
				
TOP 4120 - 4135	TS 18041I/HG	TD 6P	SL 20M	
TOP 4140 - 4160	TS 20043I/HG-P	TD 6P	SL 20M	
TOP 4165 - 4220	TS 22052I/HG-P	TD 7P	SL 25M	
TOP 4225 - 4260	SO 25065I	TD 7	SL 25M / SL 32M	
TOP 4265 - 4360	TS 35088I	TD 10	SL 25M / SL 32M / SL 40M	
TOP 4370 - 4430	TS 40093I	TD 15	SL 32M / SL 40M	
TOP 4440 - 4508	TS 50115I	TD 20	SL 40M	

Cutting Condition D192

• *Notice: Cooling hole plug for lathe should be ordered separately
Order example) Plug for shank diameter 25.0mm : SL 25M

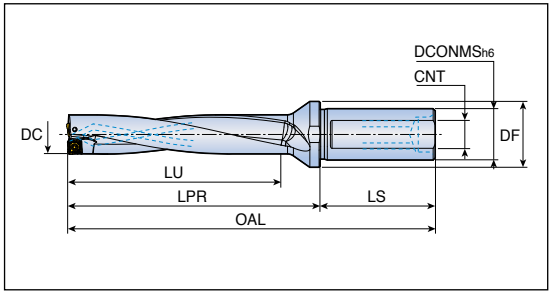
TOP 5...-T2

TOPDRILL

Indexable drill holders



• Drilling depth: 5xdiameter



Designation		Dimension (mm)							Insert
		DC	DCONMS	DF	LU	LPR	LS	CNT	
TOP	5120-20T2-04	12.0	20	25	60	80	50	M13X1.0	SOMT 04...DP
	5125-20T2-04	12.5	20	25	65	85	50	M13X1.0	D152
	5130-20T2-04	13.0	20	25	65	85	50	M13X1.0	
	5135-20T2-04	13.5	20	25	70	88	50	M13X1.0	
	5140-20T2-05	14.0	20	25	70	88	50	M13X1.0	SOMT 05...DP/DL/DK/DA
	5145-20T2-05	14.5	20	25	75	94	50	M13X1.0	D152-153
	5150-20T2-05	15.0	20	25	75	94	50	M13X1.0	
	5155-20T2-05	15.5	20	25	80	100	50	M13X1.0	
	5160-20T2-05	16.0	20	25	80	100	50	M13X1.0	
	5165-25T2-06	16.5	25	32	85	105	56	M16X1.5	SOMT 06...DP/DL/DK/DA
	5170-25T2-06	17.0	25	32	85	105	56	M16X1.5	D152-153
	5175-25T2-06	17.5	25	32	90	111	56	M16X1.5	
	5180-25T2-06	18.0	25	32	90	111	56	M16X1.5	
	5185-25T2-06	18.5	25	32	95	116	56	M16X1.5	
	5190-25T2-06	19.0	25	32	95	116	56	M16X1.5	
	5195-25T2-07	19.5	25	32	100	123	56	M16X1.5	SOMT 07...DP/DL/DK/DA
	5200-25T2-07	20.0	25	32	100	123	56	M16X1.5	D152-153
	5205-25T2-07	20.5	25	32	105	128	56	M16X1.5	
	5210-25T2-07	21.0	25	32	105	128	56	M16X1.5	
	5215-25T2-07	21.5	25	32	110	133	56	M16X1.5	
	5220-25T2-07	22.0	25	32	110	133	56	M16X1.5	
	5222-25T2-07 *	22.2	25	32	110	133	56	M16X1.5	
	5225-25T2-08	22.5	25	32	115	137	56	M16X1.5	SOMT 08...DP/DL/DK/DA
	5230-25T2-08	23.0	25	32	115	137	56	M16X1.5	D152-153
	5230-32T2-08	23.0	32	40	115	137	60	M22X2.0	
	5235-25T2-08	23.5	25	32	120	142	56	M16X1.5	
	5235-32T2-08	23.5	32	40	120	142	60	M22X2.0	
	5240-25T2-08	24.0	25	32	120	142	56	M16X1.5	
	5240-32T2-08	24.0	32	40	120	142	60	M22X2.0	
	5245-25T2-08	24.5	25	32	125	147	56	M16X1.5	
	5245-32T2-08	24.5	32	40	125	147	60	M22X2.0	
	5250-25T2-08	25.0	25	32	125	147	56	M16X1.5	
	5250-32T2-08	25.0	32	40	125	147	60	M22X2.0	
	5255-25T2-08	25.5	25	32	130	151	56	M16X1.5	
	5255-32T2-08	25.5	32	40	130	151	60	M22X2.0	

Cutting Condition D194

• '*' Marked items are for inch sized hole
• OAL = LPR+LS

TOP 5...-T2

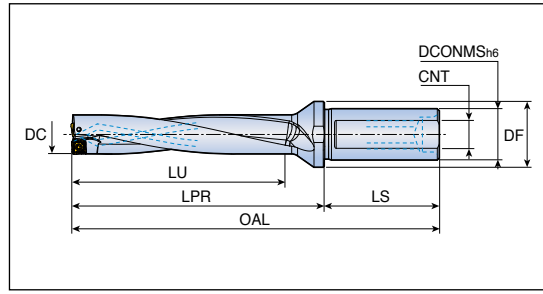
TOPDRILL

Indexable drill holders



• Drilling depth: 5xdiameter





Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TOP 5260-25T2-08	26.0	25	32	130	151	56	M16X1.5	SOMT 08...DP/DL/DK/DA
5260-32T2-08	26.0	32	40	130	151	60	M22X2.0	D152-153
5265-32T2-09	26.5	32	40	135	158	60	M22X2.0	SOMT 09...DP/DL/DK/DA
5270-25T2-09	27.0	25	40	135	158	56	M16X1.5	D152-153
5270-32T2-09	27.0	32	40	135	158	60	M22X2.0	
5275-32T2-09	27.5	32	40	140	163	60	M22X2.0	
5280-25T2-09	28.0	25	40	140	163	56	M16X1.5	
5280-32T2-09	28.0	32	40	140	163	60	M22X2.0	
5282-32T2-09 *	28.2	32	40	140	163	60	M22X2.0	
5285-32T2-09	28.5	32	40	145	168	60	M22X2.0	
5290-25T2-09	29.0	25	40	145	168	56	M16X1.5	
5290-32T2-09	29.0	32	40	145	168	60	M22X2.0	
5295-32T2-09	29.5	32	40	150	173	60	M22X2.0	
5300-32T2-09	30.0	32	40	150	173	60	M22X2.0	
5305-32T2-09	30.5	32	40	155	178	60	M22X2.0	
5310-32T2-09	31.0	32	40	155	178	60	M22X2.0	
5320-32T2-11	32.0	32	40	160	183	60	M22X2.0	SOMT 11...DP/DL/DK/DA
5320-40T2-11	32.0	40	50	160	183	70	M30X2.0	D152-153
5330-32T2-11	33.0	32	40	165	188	60	M22X2.0	
5330-40T2-11	33.0	40	50	165	188	70	M30X2.0	
5340-32T2-11	34.0	32	40	170	193	60	M22X2.0	
5340-40T2-11	34.0	40	50	170	193	70	M30X2.0	
5350-32T2-11	35.0	32	40	175	198	60	M22X2.0	
5350-40T2-11	35.0	40	50	175	198	70	M30X2.0	
5360-32T2-11	36.0	32	40	180	203	60	M22X2.0	
5360-40T2-11	36.0	40	50	180	203	70	M30X2.0	
5370-32T2-13	37.0	32	50	185	213	60	M22X2.0	SOMT 13...DP/DL/DK/DA
5370-40T2-13	37.0	40	50	185	213	70	M30X2.0	D152-153
5380-32T2-13	38.0	32	50	190	218	60	M22X2.0	
5380-40T2-13	38.0	40	50	190	218	70	M30X2.0	
5390-32T2-13	39.0	32	50	195	223	60	M22X2.0	
5390-40T2-13	39.0	40	50	195	223	70	M30X2.0	
5400-32T2-13	40.0	32	50	200	228	60	M22X2.0	
5400-40T2-13	40.0	40	50	200	228	70	M30X2.0	

Cutting Condition D194

• '*' Marked items are for inch sized hole
• OAL = LPR+LS

ADVANCE MACHINING TaeguTec Industry 4.0

TOP 5...-T2

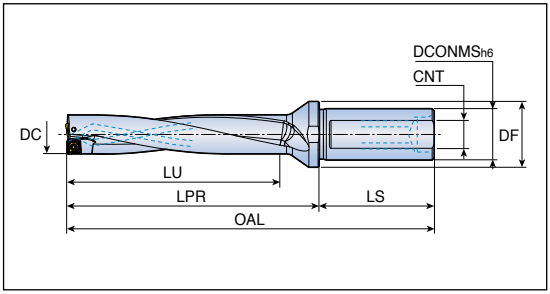
TOPDRILL

Indexable drill holders



• Drilling depth: 5xdiameter





Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TOP 5410-40T2-13	41.0	40	50	205	233	70	M30X2.0	SOMT 13...DP/DL/DK/DA D152-153
5420-40T2-13	42.0	40	50	210	238	70	M30X2.0	
5430-40T2-13	43.0	40	50	215	243	70	M30X2.0	
5440-40T2-15	44.0	40	60	220	255	70	M30X2.0	SOMT 15...DP/DL/DK/DA D152-153
5450-40T2-15	45.0	40	60	225	260	70	M30X2.0	
5460-40T2-15	46.0	40	60	230	265	70	M30X2.0	
5470-40T2-15	47.0	40	60	235	270	70	M30X2.0	
5480-40T2-15	48.0	40	60	240	275	70	M30X2.0	
5490-40T2-15	49.0	40	60	245	280	70	M30X2.0	
5500-40T2-15	50.0	40	60	250	285	70	M30X2.0	

• OAL = LPR+LS

Spare parts

Designation	Screw	Wrench	Plug*	
TOP 5120 - 5135	TS 18041I/HG	TD 6P	SL 20M	
TOP 5140 - 5160	TS 20043I/HG-P	TD 6P	SL 20M	
TOP 5165 - 5220	TS 22052I/HG-P	TD 7P	SL 25M	
TOP 5225 - 5260	SO 25065I	TD 7	SL 25M / SL 32M	
TOP 5265 - 5360	TS 35088I	TD 10	SL 25M / SL 32M / SL 40M	
TOP 5370 - 5430	TS 40093I	TD 15	SL 32M / SL 40M	
TOP 5440 - 5500	TS 50115I	TD 20	SL 40M	

Cutting Condition D194

• *Notice: Cooling hole plug for lathe should be ordered separately
Order example) Plug for shank diameter 25.0mm : SL 25M

TOP 20…CA

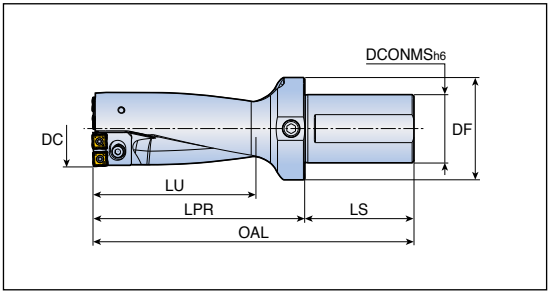
TOPDRILL

Indexable drill holders for cartridge



• Drilling depth: 2xdiameter





Designation	Dimension (mm)							Setting Plate	Insert
	DC	DCONMS	DF	OAL	LU	LPR	LS		
TOP 2051-55-50T2-09CA	51	50	75	223	110	143	80	-	SOMT 09… DP/DL/DK/DA D152-153
	52	50	75	223	110	143	80	TOP-0901	
	53	50	75	223	110	143	80	TOP-0902	
	54	50	75	223	110	143	80	TOP-0903	
	55	50	75	223	110	143	80	TOP-0904	
TOP 2056-60-50T2-11CA	56	50	75	236	120	156	80	-	SOMT 11… DP/DL/DK/DA D152-153
	57	50	75	236	120	156	80	TOP-0901	
	58	50	75	236	120	156	80	TOP-0902	
	59	50	75	236	120	156	80	TOP-0903	
	60	50	75	236	120	156	80	TOP-0904	
TOP 2061-65-50T2-11CA	61	50	75	249	130	169	80	-	SOMT 11… DP/DL/DK/DA D152-153
	62	50	75	249	130	169	80	TOP-0901	
	63	50	75	249	130	169	80	TOP-0902	
	64	50	75	249	130	169	80	TOP-0903	
	65	50	75	249	130	169	80	TOP-0904	
TOP 2066-70-50T2-11CA	66	50	75	262	140	182	80	-	SOMT 11… DP/DL/DK/DA D152-153
	67	50	75	262	140	182	80	TOP-0901	
	68	50	75	262	140	182	80	TOP-0902	
	69	50	75	262	140	182	80	TOP-0903	
	70	50	75	262	140	182	80	TOP-0904	
TOP 2071-75-50T2-13CA	71	50	75	275	150	195	80	-	SOMT 13… DP/DL/DK/DA D152-153
	72	50	75	275	150	195	80	TOP-0901	
	73	50	75	275	150	195	80	TOP-0902	
	74	50	75	275	150	195	80	TOP-0903	
	75	50	75	275	150	195	80	TOP-0904	
TOP 2076-80-50T2-13CA	76	50	75	288	160	208	80	-	SOMT 13… DP/DL/DK/DA D152-153
	77	50	75	288	160	208	80	TOP-0901	
	78	50	75	288	160	208	80	TOP-0902	
	79	50	75	288	160	208	80	TOP-0903	
	80	50	75	288	160	208	80	TOP-0904	

Cutting Condition D196

ADVANCE MACHINING TaeguTec Industry 4.0

TOP 30…CA

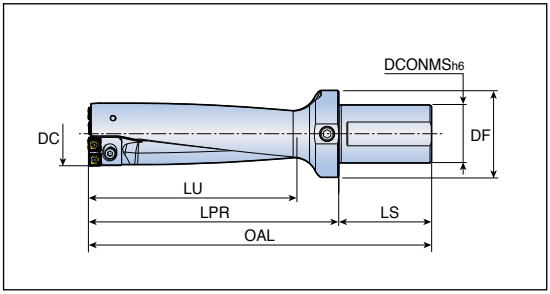
TOPDRILL

Indexable drill holders for cartridge



• Drilling depth: 3xdiameter





Designation	Dimension (mm)							Setting Plate	Insert
	DC	DCONMS	DF	OAL	LU	LPR	LS		
TOP 3051-55-50T2-09CA	51	50	75	278	165	198	80	-	SOMT 09… DP/DL/DK/DA D152-153
	52	50	75	278	165	198	80	TOP-0901	
	53	50	75	278	165	198	80	TOP-0902	
	54	50	75	278	165	198	80	TOP-0903	
	55	50	75	278	165	198	80	TOP-0904	
TOP 3056-60-50T2-11CA	56	50	75	296	180	216	80	-	SOMT 11… DP/DL/DK/DA D152-153
	57	50	75	296	180	216	80	TOP-0901	
	58	50	75	296	180	216	80	TOP-0902	
	59	50	75	296	180	216	80	TOP-0903	
	60	50	75	296	180	216	80	TOP-0904	
TOP 3061-65-50T2-11CA	61	50	75	314	195	234	80	-	SOMT 11… DP/DL/DK/DA D152-153
	62	50	75	314	195	234	80	TOP-0901	
	63	50	75	314	195	234	80	TOP-0902	
	64	50	75	314	195	234	80	TOP-0903	
	65	50	75	314	195	234	80	TOP-0904	
TOP 3066-70-50T2-11CA	66	50	75	332	210	252	80	-	SOMT 11… DP/DL/DK/DA D152-153
	67	50	75	332	210	252	80	TOP-0901	
	68	50	75	332	210	252	80	TOP-0902	
	69	50	75	332	210	252	80	TOP-0903	
	70	50	75	332	210	252	80	TOP-0904	
TOP 3071-75-50T2-13CA	71	50	75	350	225	270	80	-	SOMT 13… DP/DL/DK/DA D152-153
	72	50	75	350	225	270	80	TOP-0901	
	73	50	75	350	225	270	80	TOP-0902	
	74	50	75	350	225	270	80	TOP-0903	
	75	50	75	350	225	270	80	TOP-0904	
TOP 3076-80-50T2-13CA	76	50	75	368	240	288	80	-	SOMT 13… DP/DL/DK/DA D152-153
	77	50	75	368	240	288	80	TOP-0901	
	78	50	75	368	240	288	80	TOP-0902	
	79	50	75	368	240	288	80	TOP-0903	
	80	50	75	368	240	288	80	TOP-0904	

Cutting Condition D196

TOP 40…CA

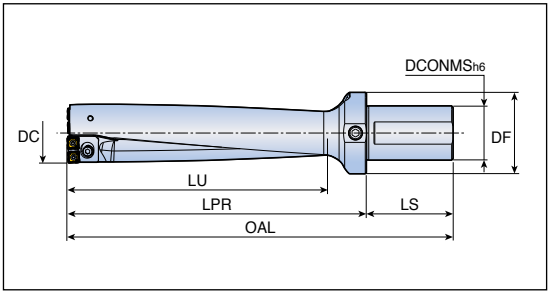
TOPDRILL

Indexable drill holders for cartridge



• Drilling depth: 4xdiameter





Designation	Dimension (mm)							Setting Plate	Insert
	DC	DCONMS	DF	OAL	LU	LPR	LS		
TOP 4051-55-50T2-09CA	51	50	75	333	220	253	80	-	SOMT 09… DP/DL/DK/DA D152-153
	52	50	75	333	220	253	80	TOP-0901	
	53	50	75	333	220	253	80	TOP-0902	
	54	50	75	333	220	253	80	TOP-0903	
	55	50	75	333	220	253	80	TOP-0904	
TOP 4056-60-50T2-11CA	56	50	75	356	240	276	80	-	SOMT 11… DP/DL/DK/DA D152-153
	57	50	75	356	240	276	80	TOP-0901	
	58	50	75	356	240	276	80	TOP-0902	
	59	50	75	356	240	276	80	TOP-0903	
	60	50	75	356	240	276	80	TOP-0904	
TOP 4061-65-50T2-11CA	61	50	75	379	260	299	80	-	SOMT 11… DP/DL/DK/DA D152-153
	62	50	75	379	260	299	80	TOP-0901	
	63	50	75	379	260	299	80	TOP-0902	
	64	50	75	379	260	299	80	TOP-0903	
	65	50	75	379	260	299	80	TOP-0904	
TOP 4066-70-50T2-11CA	66	50	75	402	280	322	80	-	SOMT 11… DP/DL/DK/DA D152-153
	67	50	75	402	280	322	80	TOP-0901	
	68	50	75	402	280	322	80	TOP-0902	
	69	50	75	402	280	322	80	TOP-0903	
	70	50	75	402	280	322	80	TOP-0904	
TOP 4071-75-50T2-13CA	71	50	75	425	300	345	80	-	SOMT 13… DP/DL/DK/DA D152-153
	72	50	75	425	300	345	80	TOP-0901	
	73	50	75	425	300	345	80	TOP-0902	
	74	50	75	425	300	345	80	TOP-0903	
	75	50	75	425	300	345	80	TOP-0904	
TOP 4076-80-50T2-13CA	76	50	75	448	320	368	80	-	SOMT 13… DP/DL/DK/DA D152-153
	77	50	75	448	320	368	80	TOP-0901	
	78	50	75	448	320	368	80	TOP-0902	
	79	50	75	448	320	368	80	TOP-0903	
	80	50	75	448	320	368	80	TOP-0904	

Cutting Condition D196

ADVANCE MACHINING TaeguTec Industry 4.0

Indexable drill holders for cartridge

Spare parts

Designation	Screw	Cartridge for peripheral	Cartridge for center
			
TOP ..51-55-50T2-09CA	TS 35088I	TOP 09CA-P1	TOP 09CA-C1
TOP ..56-60-50T2-11CA	TS 35088I	TOP 11CA-P1	TOP 11CA-C1
TOP ..61-65-50T2-11CA	TS 35088I	TOP 11CA-P2	TOP 11CA-C2
TOP ..66-70-50T2-11CA	TS 35088I	TOP 11CA-P3	TOP 11CA-C3
TOP ..71-75-50T2-13CA	TS 40093I	TOP 13CA-P1	TOP 13CA-C1
TOP ..76-80-50T2-13CA	TS 40093I	TOP 13CA-P2	TOP 13CA-C2

Spare parts for cartridge

Designation	Cartridge clamping screw	Washer	Setting plate screw
TOP 09CA-P1	SH M4x0.7x16	MW 4.3x8	TS 20043I/HG-P
TOP 09CA-C1	SH M4x0.7x16	MW 4.3x8	-
TOP 11CA-P1	SH M5x0.8x16	MW 5.5x10	TS 20043I/HG-P
TOP 11CA-C1	SH M5x0.8x16	MW 5.5x10	-
TOP 11CA-P2	SH M5x0.8x16	MW 5.5x10	TS 20043I/HG-P
TOP 11CA-C2	SH M5x0.8x16	MW 5.5x10	-
TOP 11CA-P3	SH M5x0.8x16	MW 5.5x10	TS 20043I/HG-P
TOP 11CA-C3	SH M5x0.8x16	MW 5.5x10	-
TOP 13CA-P1	SH M6x1.0x20	MW 6.4x12	TS 20043I/HG-P
TOP 13CA-C1	SH M6x1.0x20	MW 6.4x12	-
TOP 13CA-P2	SH M6x1.0x20	MW 6.4x12	TS 20043I/HG-P
TOP 13CA-C2	SH M6x1.0x20	MW 6.4x12	-

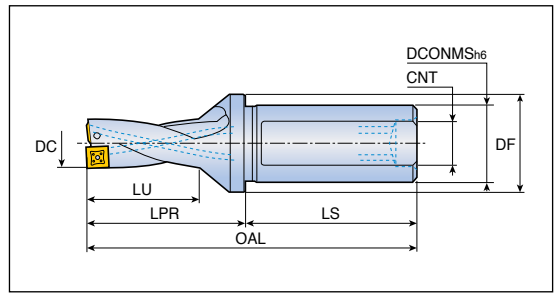
TDR 2...-T2

Indexable drill holders



• Drilling depth: 2xdiameter





Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TDR 2125-20T2-05	12.5	20	25	26	44	50	M13X1.0	SPMG 05... DG/DK SPGG 05..DA D154-155
2130-20T2-05	13.0	20	25	26	44	50	M13X1.0	
2135-20T2-05	13.5	20	25	28	46	50	M13X1.0	
2140-20T2-05	14.0	20	25	28	46	50	M13X1.0	
2145-20T2-05	14.5	20	25	30	49	50	M13X1.0	
2150-20T2-05	15.0	20	25	30	49	50	M13X1.0	
2155-25T2-06	15.5	25	32	32	52	56	M16X1.5	SPMG 06... DG/DK SPGG 06..DA D154-155
2160-25T2-06	16.0	25	32	32	52	56	M16X1.5	
2165-25T2-06	16.5	25	32	34	54	56	M16X1.5	
2170-25T2-06	17.0	25	32	34	54	56	M16X1.5	
2175-25T2-06	17.5	25	32	36	57	56	M16X1.5	
2180-25T2-06	18.0	25	32	36	57	56	M16X1.5	
2185-25T2-06	18.5	25	32	38	59	56	M16X1.5	
2190-25T2-06	19.0	25	32	38	59	56	M16X1.5	
2195-25T2-06	19.5	25	32	40	63	56	M16X1.5	
2200-25T2-06	20.0	25	32	40	63	56	M16X1.5	
2205-25T2-06	20.5	25	32	42	65	56	M16X1.5	
2210-25T2-06	21.0	25	32	42	65	56	M16X1.5	
2215-25T2-06	21.5	25	32	44	67	56	M16X1.5	
2220-25T2-07	22.0	25	32	44	67	56	M16X1.5	SPMG 07... DG/DK SPGG 07..DA D154-155
2225-25T2-07	22.5	25	32	46	71	56	M16X1.5	
2225-32T2-07	22.5	32	40	46	71	60	M22X2.0	
2230-25T2-07	23.0	25	32	46	71	56	M16X1.5	
2230-32T2-07	23.0	32	40	46	71	60	M22X2.0	
2235-25T2-07	23.5	25	32	48	74	56	M16X1.5	
2235-32T2-07	23.5	32	40	48	74	60	M22X2.0	
2240-25T2-07	24.0	25	32	48	74	56	M16X1.5	
2240-32T2-07	24.0	32	40	48	74	60	M22X2.0	
2245-25T2-07	24.5	25	32	50	77	56	M16X1.5	
2245-32T2-07	24.5	32	40	50	77	60	M22X2.0	
2250-25T2-07	25.0	25	32	50	77	56	M16X1.5	
2250-32T2-07	25.0	32	40	50	77	60	M22X2.0	
2255-25T2-07	25.5	25	32	52	79	56	M16X1.5	
2255-32T2-07	25.5	32	40	52	79	60	M22X2.0	
2260-25T2-07	26.0	25	32	52	79	56	M16X1.5	

Cutting Condition D198

• OAL = LPR+LS

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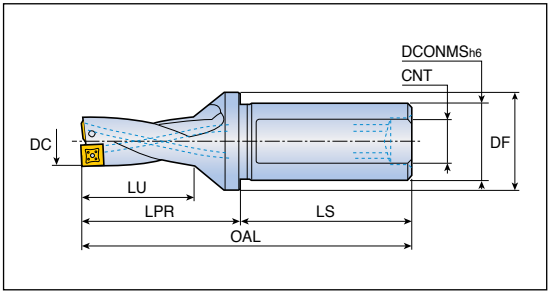
TDR 2...-T2

Indexable drill holders



• Drilling depth: 2xdiameter





Designation		Dimension (mm)							Insert
		DC	DCONMS	DF	LU	LPR	LS	CNT	
TDR	2260-32T2-07	26.0	32	40	52	79	60	M22X2.0	SPMG 07...
	2265-25T2-07	26.5	25	32	54	81	56	M16X1.5	DG/DK
	2265-32T2-07	26.5	32	40	54	81	60	M22X2.0	SPGG 07..DA
	2270-25T2-07	27.0	25	32	54	81	56	M16X1.5	D154-155
	2270-32T2-07	27.0	32	40	54	81	60	M22X2.0	
	2275-25T2-07	27.5	25	32	56	84	56	Rc 1/8	
	2275-32T2-07	27.5	32	40	56	84	60	Rc 1/4	
	2280-25T2-09	28.0	25	40	56	84	56	Rc 1/8	SPMG 09...
	2280-32T2-09	28.0	32	40	56	84	60	Rc 1/4	DG/DK
	2285-25T2-09	28.5	25	40	58	86	56	Rc 1/8	SPGG 09..DA
	2285-32T2-09	28.5	32	40	58	86	60	Rc 1/4	D154-155
	2290-25T2-09	29.0	25	40	58	86	56	Rc 1/8	
	2290-32T2-09	29.0	32	40	58	86	60	Rc 1/4	
	2295-32T2-09	29.5	32	40	60	91	60	Rc 1/4	
	2295-40T2-09	29.5	40	50	60	91	70	Rc 1/4	
	2300-32T2-09	30.0	32	40	60	91	60	Rc 1/4	
	2300-40T2-09	30.0	40	50	60	91	70	Rc 1/4	
	2305-32T2-09	30.5	32	40	62	94	60	Rc 1/4	
	2305-40T2-09	30.5	40	50	62	94	70	Rc 1/4	
	2310-32T2-09	31.0	32	40	62	94	60	Rc 1/4	
	2310-40T2-09	31.0	40	50	62	94	70	Rc 1/4	
	2315-32T2-09	31.5	32	40	64	96	60	Rc 1/4	
	2315-40T2-09	31.5	40	50	64	96	70	Rc 1/4	
	2320-32T2-09	32.0	32	40	64	96	60	Rc 1/4	
	2320-40T2-09	32.0	40	50	64	96	70	Rc 1/4	
	2325-32T2-09	32.5	32	40	66	99	60	Rc 1/4	
	2325-40T2-09	32.5	40	50	66	99	70	Rc 1/4	
	2330-32T2-09	33.0	32	40	66	99	60	Rc 1/4	
	2330-40T2-09	33.0	40	50	66	99	70	Rc 1/4	
	2340-32T2-11	34.0	32	50	68	101	60	Rc 1/4	SPMG 11...
	2340-40T2-11	34.0	40	55	68	101	70	Rc 1/4	DG/DK
	2350-32T2-11	35.0	32	50	70	104	60	Rc 1/4	SPGG 11..DA
	2350-40T2-11	35.0	40	55	70	104	70	Rc 1/4	D154-155
	2360-32T2-11	36.0	32	50	72	107	60	Rc 1/4	
	2360-40T2-11	36.0	40	55	72	107	70	Rc 1/4	

Cutting Condition D198

• OAL = LPR+LS

TDR 2...-T2

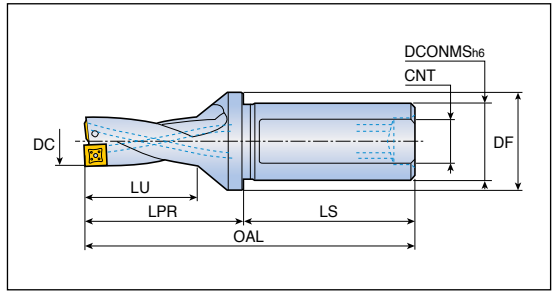
TDRILL

Indexable drill holders



• Drilling depth: 2xdiameter





Designation		Dimension (mm)							Insert
		DC	DCONMS	DF	LU	LPR	LS	CNT	
TDR	**2370-32T2-11**	37.0	32	50	74	110	60	Rc 1/4	SPMG 11...
	2370-40T2-11	37.0	40	55	74	110	70	Rc 1/4	DG/DK
	2380-32T2-11	38.0	32	50	76	113	60	Rc 1/4	SPGG 11..DA
	2380-40T2-11	38.0	40	55	76	113	70	Rc 1/4	D154-155
	2390-32T2-11	39.0	32	50	78	115	60	Rc 1/4	
	2390-40T2-11	39.0	40	55	78	115	70	Rc 1/4	
	2400-32T2-11	40.0	32	50	80	118	60	Rc 1/4	
	2400-40T2-11	40.0	40	55	80	118	70	Rc 1/4	
	2410-40T2-11	41.0	40	55	82	121	70	Rc 1/4	
	2420-40T2-14	42.0	40	60	84	123	70	Rc 1/4	SPMG 14...
	2430-40T2-14	43.0	40	60	86	126	70	Rc 1/4	DG/DK
	2440-40T2-14	44.0	40	60	88	128	70	Rc 1/4	SPGG 14..DA
	2450-40T2-14	45.0	40	60	90	132	70	Rc 1/4	D154-155
	2460-40T2-14	46.0	40	60	92	135	70	Rc 1/4	
	2470-40T2-14	47.0	40	60	94	137	70	Rc 1/4	
	2480-40T2-14	48.0	40	60	96	140	70	Rc 1/4	
	2490-40T2-14	49.0	40	60	98	142	70	Rc 1/4	
	2500-40T2-14	50.0	40	60	100	145	70	Rc 1/4	

• OAL = LPR+LS

Spare parts

Designation	Screw	Wrench	Plug	
				
TDR 2125 - 2150	TS 20043I/HG-P	TD 6P	SL 20 M	
TDR 2155 - 2215	TS 22052I/HG	TD 7	SL 25 M	
TDR 2220 - 2270	TS 25064I	TD 8	SL 25 M / SL 32 M	
TDR 2275	TS 25064I	TD 8	-	
TDR 2280 - 2330	TS 35088I	TD 10	-	
TDR 2340 - 2390	TS 40093I	TD 15	-	
TDR 2400 - 2410	TS 40093I	TD 15	-	
TDR 2420 - 2500	SO 50090I	TD 20	-	

Cutting Condition D198

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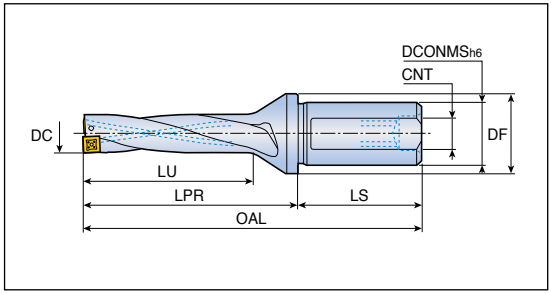
TDR 3...-T2

TDRILL

Indexable drill holders



• Drilling depth: 3xdiameter



Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TDR 3125-20T2-05	12.5	20	25	39	57	50	M13X1.0	SPMG 05...
3130-20T2-05	13.0	20	25	39	57	50	M13X1.0	DG/DK
3135-20T2-05	13.5	20	25	42	60	50	M13X1.0	SPGG 05..DA
3140-20T2-05	14.0	20	25	42	60	50	M13X1.0	D154-155
3145-20T2-05	14.5	20	25	45	64	50	M13X1.0	
3150-20T2-05	15.0	20	25	45	64	50	M13X1.0	
3155-25T2-06	15.5	25	32	48	68	56	M16X1.5	SPMG 06...
3160-25T2-06	16.0	25	32	48	68	56	M16X1.5	DG/DK
3165-25T2-06	16.5	25	32	51	71	56	M16X1.5	SPGG 06..DA
3170-25T2-06	17.0	25	32	51	71	56	M16X1.5	D154-155
3175-25T2-06	17.5	25	32	54	75	56	M16X1.5	
3180-25T2-06	18.0	25	32	54	75	56	M16X1.5	
3185-25T2-06	18.5	25	32	57	78	56	M16X1.5	
3190-25T2-06	19.0	25	32	57	78	56	M16X1.5	
3195-25T2-06	19.5	25	32	60	83	56	M16X1.5	
3200-25T2-06 *	20.0	25	32	60	83	56	M16X1.5	
3205-25T2-06	20.5	25	32	63	86	56	M16X1.5	
3209-25T2-06 *	20.9	25	32	63	86	56	M16X1.5	
3210-25T2-06	21.0	25	32	63	86	56	M16X1.5	
3215-25T2-06	21.5	25	32	66	89	56	M16X1.5	
3220-25T2-07	22.0	25	32	66	89	56	M16X1.5	SPMG 07...
3225-25T2-07	22.5	25	32	69	94	56	M16X1.5	DG/DK
3225-32T2-07	22.5	32	40	69	94	60	M22X2.0	SPGG 07..DA
3230-25T2-07	23.0	25	32	69	94	56	M16X1.5	D154-155
3230-32T2-07	23.0	32	40	69	94	60	M22X2.0	
3235-25T2-07	23.5	25	32	72	98	56	M16X1.5	
3235-32T2-07	23.5	32	40	72	98	60	M22X2.0	
3239-25T2-07 *	23.9	25	32	72	98	56	M16X1.5	
3239-32T2-07 *	23.9	32	45	72	98	60	M22X2.0	
3240-25T2-07	24.0	25	32	72	98	56	M16X1.5	
3240-32T2-07	24.0	32	40	72	98	60	M22X2.0	
3245-25T2-07	24.5	25	32	75	102	56	M16X1.5	
3245-32T2-07	24.5	32	40	75	102	60	M22X2.0	
3250-25T2-07	25.0	25	32	75	102	56	M16X1.5	
3250-32T2-07	25.0	32	40	75	102	60	M22X2.0	

Cutting Condition D198

• '*' Marked items are for pre-thread hole making
• OAL = LPR+LS

TaeguTec

TDR 3...-T2

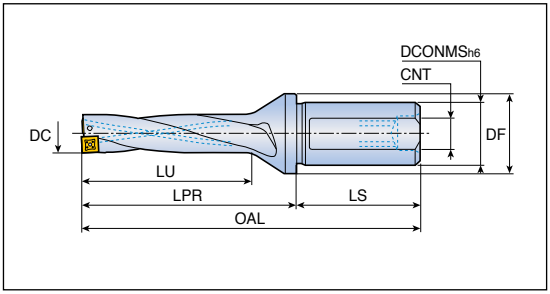
TDRILL

Indexable drill holders



• Drilling depth: 3xdiameter





Designation		Dimension (mm)							Insert
		DC	DCONMS	DF	LU	LPR	LS	CNT	
TDR	**3255-25T2-07**	25.5	25	32	78	105	56	M16X1.5	SPMG 07...
	3255-32T2-07	25.5	32	40	78	105	60	M22X2.0	DG/DK
	3260-25T2-07	26.0	25	32	78	105	56	M16X1.5	SPGG 07..DA
	3260-32T2-07	26.0	32	40	78	105	60	M22X2.0	D154-155
	3264-25T2-07 *	26.4	25	45	81	108	56	M16X1.5	
	3264-32T2-07 *	26.4	32	45	81	108	60	M22X2.0	
	3265-25T2-07	26.5	25	32	81	108	56	M16X1.5	
	3265-32T2-07	26.5	32	40	81	108	60	M22X2.0	
	3270-25T2-07	27.0	25	32	81	108	56	M16X1.5	
	3270-32T2-07	27.0	32	40	81	108	60	M22X2.0	
	3275-25T2-07	27.5	25	32	84	112	56	Rc 1/8	
	3275-32T2-07	27.5	32	40	84	112	60	Rc 1/4	
	3280-25T2-09	28.0	25	40	84	112	56	Rc 1/8	SPMG 09...
	3280-32T2-09	28.0	32	40	84	112	60	Rc 1/4	DG/DK
	3285-25T2-09	28.5	25	40	87	115	56	Rc 1/8	SPGG 09..DA
	3285-32T2-09	28.5	32	40	87	115	56	Rc 1/4	D154-155
	3290-25T2-09	29.0	25	40	87	115	56	Rc 1/8	
	3290-32T2-09	29.0	32	40	87	115	60	Rc 1/4	
	3294-32T2-09 *	29.4	32	55	90	121	60	Rc 1/4	
	3294-40T2-09 *	29.4	40	55	90	121	70	Rc 1/4	
	3295-32T2-09	29.5	32	40	90	121	60	Rc 1/4	
	3295-40T2-09	29.5	40	50	90	121	70	Rc 1/4	
	3300-32T2-09	30.0	32	40	90	121	60	Rc 1/4	
	3300-40T2-09	30.0	40	50	90	121	70	Rc 1/4	
	3305-32T2-09	30.5	32	40	93	125	60	Rc 1/4	
	3305-40T2-09	30.5	40	50	93	125	70	Rc 1/4	
	3310-32T2-09	31.0	32	40	93	125	60	Rc 1/4	
	3310-40T2-09	31.0	40	50	93	125	70	Rc 1/4	
	3315-32T2-09	31.5	32	40	96	128	60	Rc 1/4	
	3315-40T2-09	31.5	40	50	96	128	70	Rc 1/4	
	3320-32T2-09	32.0	32	40	96	128	60	Rc 1/4	
	3320-40T2-09	32.0	40	50	96	128	70	Rc 1/4	

Cutting Condition D198

• '*' Marked items are for pre-thread hole making
• OAL = LPR+LS

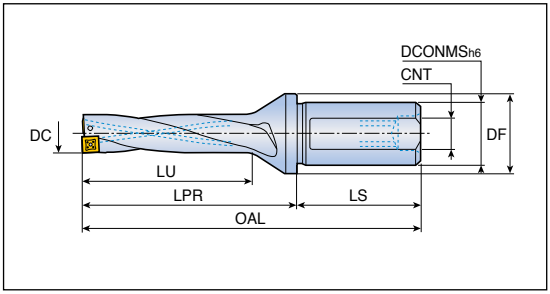
ADVANCE MACHINING TaeguTec Industry 4.0

TDR 3...-T2

Indexable drill holders



• Drilling depth: 3xdiameter



Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TDR 3325-32T2-09	32.5	32	40	99	132	60	Rc 1/4	SPMG 09... DG/DK SPGG 09..DA D154-155
3325-40T2-09	32.5	40	50	99	132	70	Rc 1/4	
3330-32T2-09	33.0	32	40	99	132	60	Rc 1/4	
3330-40T2-09	33.0	40	50	99	132	70	Rc 1/4	
3340-32T2-11	34.0	32	50	102	135	60	Rc 1/4	SPMG 11... DG/DK SPGG 09..DA D154-155
3340-40T2-11	34.0	40	55	102	135	70	Rc 1/4	
3350-32T2-11	35.0	32	50	105	139	60	Rc 1/4	
3350-40T2-11	35.0	40	55	105	139	70	Rc 1/4	
3360-32T2-11	36.0	32	50	108	143	60	Rc 1/4	
3360-40T2-11	36.0	40	55	108	143	70	Rc 1/4	
3370-32T2-11	37.0	32	50	111	147	60	Rc 1/4	
3370-40T2-11	37.0	40	55	111	147	70	Rc 1/4	
3375-32T2-11 *	37.5	32	55	114	151	60	Rc 1/4	
3375-40T2-11 *	37.5	40	55	114	151	70	Rc 1/4	
3380-32T2-11	38.0	32	50	114	151	60	Rc 1/4	
3380-40T2-11	38.0	40	55	114	151	70	Rc 1/4	
3390-32T2-11	39.0	32	50	117	154	60	Rc 1/4	
3390-40T2-11	39.0	40	55	117	154	70	Rc 1/4	
3400-32T2-11	40.0	32	50	120	158	60	Rc 1/4	
3400-40T2-11	40.0	40	55	120	158	70	Rc 1/4	
3405-40T2-11 *	40.5	40	60	123	162	70	Rc 1/4	
3410-40T2-11	41.0	40	55	123	162	70	Rc 1/4	

Cutting Condition D198

• '*' Marked items are for pre-thread hole making
• OAL = LPR+LS

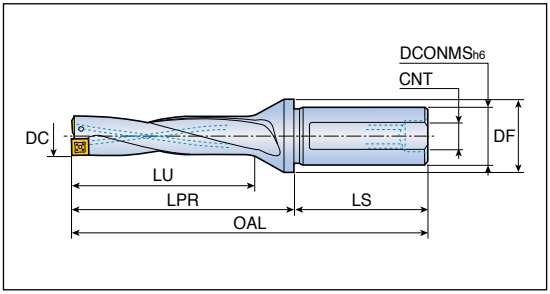
TDR 3...-T2

Indexable drill holders



• Drilling depth: 3xdiameter





Designation		Dimension (mm)							Insert
		DC	DCONMS	DF	LU	LPR	LS	CNT	
TDR	**3420-40T2-14**	42.0	40	60	126	165	70	Rc 1/4	SPMG 14...
	3430-40T2-14	43.0	40	60	129	169	70	Rc 1/4	DG/DK
	3440-40T2-14	44.0	40	60	132	172	70	Rc 1/4	SPGG 14..DA
	3450-40T2-14	45.0	40	60	135	177	70	Rc 1/4	D154-155
	3460-40T2-14	46.0	40	60	138	181	70	Rc 1/4	
	3470-40T2-14	47.0	40	60	141	184	70	Rc 1/4	
	3480-40T2-14	48.0	40	60	144	188	70	Rc 1/4	
	3490-40T2-14	49.0	40	60	147	191	70	Rc 1/4	
	3500-40T2-14	50.0	40	60	150	195	70	Rc 1/4	

• OAL = LPR+LS

Spare parts

Designation	Screw	Wrench	Plug	
TDR 3125 - 3150	TS 20043I/HG-P	TD 6P	SL 20 M	
TDR 3155 - 3215	TS 22052I/HG	TD 7	SL 25 M	
TDR 3220 - 3270	TS 25064I	TD 8	SL 25 M / SL 32 M	
TDR 3275	TS 25064I	TD 8	-	
TDR 3280 - 3330	TS 35088I	TD 10	-	
TDR 3340 - 3390	TS 40093I	TD 15	-	
TDR 3400 - 3410	TS 40093I	TD 15	-	
TDR 3420 - 3500	SO 50090I	TD 20	-	

Cutting Condition
D198

ADVANCE MACHINING
TaeguTec Industry 4.0

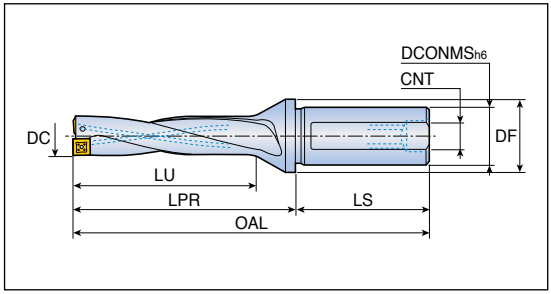
TDR 4...-T2

TDRILL

Indexable drill holders



• Drilling depth: 4xdiameter



Designation		Dimension (mm)							Insert
		DC	DCONMS	DF	LU	LPR	LS	CNT	
TDR	4125-20T2-05	12.5	20	25	52	70	50	M13X1.0	SPMG 05... DG/DK SPGG 05..DA D154-155
	4130-20T2-05	13.0	20	25	52	70	50	M13X1.0	
	4135-20T2-05	13.5	20	25	56	74	50	M13X1.0	
	4140-20T2-05	14.0	20	25	56	74	50	M13X1.0	
	4145-20T2-05	14.5	20	25	60	79	50	M13X1.0	
	4150-20T2-05	15.0	20	25	60	79	50	M13X1.0	
	4155-25T2-06	15.5	25	32	64	84	56	M16X1.5	SPMG 06... DG/DK SPGG 06..DA D154-155
	4160-25T2-06	16.0	25	32	64	84	56	M16X1.5	
	4165-25T2-06	16.5	25	32	68	88	56	M16X1.5	
	4170-25T2-06	17.0	25	32	68	88	56	M16X1.5	
	4175-25T2-06	17.5	25	32	72	93	56	M16X1.5	
	4180-25T2-06	18.0	25	32	72	93	56	M16X1.5	
	4185-25T2-06	18.5	25	32	76	97	56	M16X1.5	
	4190-25T2-06	19.0	25	32	76	97	56	M16X1.5	
	4195-25T2-06	19.5	25	32	80	103	56	M16X1.5	
	4200-25T2-06	20.0	25	32	80	103	56	M16X1.5	
	4205-25T2-06	20.5	25	32	84	107	56	M16X1.5	
	4210-25T2-06	21.0	25	32	84	107	56	M16X1.5	
	4215-25T2-06	21.5	25	32	88	111	56	M16X1.5	
	4220-25T2-07	22.0	25	32	88	111	56	M16X1.5	SPMG 07... DG/DK SPGG 07..DA D154-155
	4225-25T2-07	22.5	25	32	92	117	56	M16X1.5	
	4225-32T2-07	22.5	32	40	92	117	60	M22X2.0	
	4230-25T2-07	23.0	25	32	92	117	56	M16X1.5	
	4230-32T2-07	23.0	32	40	92	117	60	M22X2.0	
	4235-25T2-07	23.5	25	32	96	122	56	M16X1.5	
	4235-32T2-07	23.5	32	40	96	122	60	M22X2.0	
	4240-25T2-07	24.0	25	32	96	122	56	M16X1.5	
	4240-32T2-07	24.0	32	40	96	122	60	M22X2.0	
	4245-25T2-07	24.5	25	32	100	127	56	M16X1.5	
	4245-32T2-07	24.5	32	40	100	127	60	M22X2.0	
	4250-25T2-07	25.0	25	32	100	127	56	M16X1.5	
	4250-32T2-07	25.0	32	40	100	127	60	M22X2.0	
	4255-25T2-07	25.5	25	32	104	131	56	M16X1.5	
	4255-32T2-07	25.5	32	40	104	131	60	M22X2.0	
	4260-25T2-07	26.0	25	32	104	131	56	M16X1.5	

Cutting Condition D198

• OAL = LPR+LS

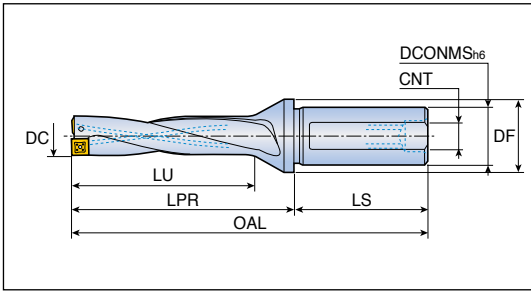
TDR 4...-T2

Indexable drill holders



• Drilling depth: 4xdiameter





Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TDR 4260-32T2-07	26.0	32	40	104	131	60	M22X2.0	SPMG 07...
4265-25T2-07	26.5	25	32	108	135	56	M16X1.5	DG/DK
4265-32T2-07	26.5	32	40	108	135	60	M22X2.0	SPGG 07..DA
4270-25T2-07	27.0	25	32	108	135	56	M16X1.5	D154-155
4270-32T2-07	27.0	32	40	108	135	60	M22X2.0	
4275-25T2-07	27.5	25	32	112	140	56	Rc 1/8	
4275-32T2-07	27.5	32	40	112	140	60	Rc 1/4	
4280-25T2-09	28.0	25	40	112	140	56	Rc 1/8	SPMG 09...
4280-32T2-09	28.0	32	40	112	140	60	Rc 1/4	DG/DK
4285-25T2-09	28.5	25	40	116	144	56	Rc 1/8	SPGG 09..DA
4285-32T2-09	28.5	32	40	116	144	60	Rc 1/4	D154-155
4290-25T2-09	29.0	25	40	116	144	56	Rc 1/8	
4290-32T2-09	29.0	32	40	116	144	60	Rc 1/4	
4295-32T2-09	29.5	32	40	120	151	60	Rc 1/4	
4295-40T2-09	29.5	40	50	120	151	70	Rc 1/4	
4300-32T2-09	30.0	32	40	120	151	60	Rc 1/4	
4300-40T2-09	30.0	40	50	120	151	70	Rc 1/4	
4305-32T2-09	30.5	32	40	124	156	60	Rc 1/4	
4305-40T2-09	30.5	40	50	124	156	70	Rc 1/4	
4310-32T2-09	31.0	32	40	124	156	60	Rc 1/4	
4310-40T2-09	31.0	40	50	124	156	70	Rc 1/4	
4315-32T2-09	31.5	32	40	128	160	60	Rc 1/4	
4315-40T2-09	31.5	40	50	128	160	70	Rc 1/4	
4320-32T2-09	32.0	32	40	128	160	60	Rc 1/4	
4320-40T2-09	32.0	40	50	128	160	70	Rc 1/4	
4325-32T2-09	32.5	32	40	132	165	60	Rc 1/4	
4325-40T2-09	32.5	40	50	132	165	70	Rc 1/4	
4330-32T2-09	33.0	32	40	132	165	60	Rc 1/4	
4330-40T2-09	33.0	40	50	132	165	70	Rc 1/4	
4340-32T2-11	34.0	32	50	136	169	60	Rc 1/4	SPMG 11...
4340-40T2-11	34.0	40	55	136	169	70	Rc 1/4	DG/DK
4350-32T2-11	35.0	32	50	140	174	60	Rc 1/4	SPGG 11..DA
4350-40T2-11	35.0	40	55	140	174	70	Rc 1/4	D154-155
4360-32T2-11	36.0	32	50	144	179	60	Rc 1/4	
4360-40T2-11	36.0	40	55	144	179	70	Rc 1/4	

Cutting Condition D198

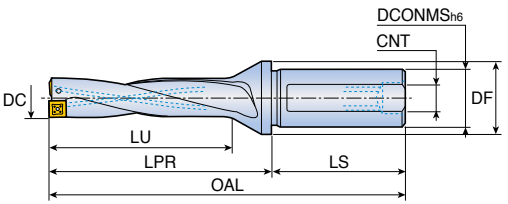
• OAL = LPR+LS

ADVANCE MACHINING
TaeguTec Industry 4.0

TDR 4...-T2

Indexable drill holders





• Drilling depth: 4xdiameter



Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TDR 4370-32T2-11	37.0	32	50	148	184	60	Rc 1/4	SPMG 11...
4370-40T2-11	37.0	40	55	148	184	70	Rc 1/4	DG/DK
4380-32T2-11	38.0	32	50	152	189	60	Rc 1/4	SPGG 11..DA
4380-40T2-11	38.0	40	55	152	189	70	Rc 1/4	D154-155
4390-32T2-11	39.0	32	50	156	193	60	Rc 1/4	
4390-40T2-11	39.0	40	55	156	193	70	Rc 1/4	
4400-32T2-11	40.0	32	50	160	198	60	Rc 1/4	
4400-40T2-11	40.0	40	55	160	198	70	Rc 1/4	
4410-40T2-11	41.0	40	55	164	203	70	Rc 1/4	
4420-40T2-14	42.0	40	60	168	207	70	Rc 1/4	SPMG 14...
4430-40T2-14	43.0	40	60	172	212	70	Rc 1/4	DG/DK
4440-40T2-14	44.0	40	60	176	216	70	Rc 1/4	SPGG 14..DA
4450-40T2-14	45.0	40	60	180	222	70	Rc 1/4	D154-155
4460-40T2-14	46.0	40	60	184	227	70	Rc 1/4	
4470-40T2-14	47.0	40	60	188	231	70	Rc 1/4	
4480-40T2-14	48.0	40	60	192	236	70	Rc 1/4	
4490-40T2-14	49.0	40	60	196	240	70	Rc 1/4	
4500-40T2-14	50.0	40	60	200	245	70	Rc 1/4	

• OAL = LPR+LS

Spare parts

Designation	Screw	Wrench	Plug	
				
TDR 4125 - 4150	TS 20043I/HG-P	TD 6P	SL 20 M	
TDR 4155 - 4215	TS 22052I/HG	TD 7	SL 25 M	
TDR 4220 - 4270	TS 25064I	TD 8	SL 25 M / SL 32 M	
TDR 4275	TS 25064I	TD 8	-	
TDR 4280 - 4330	TS 35088I	TD 10	-	
TDR 4340 - 4390	TS 40093I	TD 15	-	
TDR 4400 - 4410	TS 40093I	TD 15	-	
TDR 4420 - 4500	SO 50090I	TD 20	-	

Cutting Condition D198

TDR 5...-T2

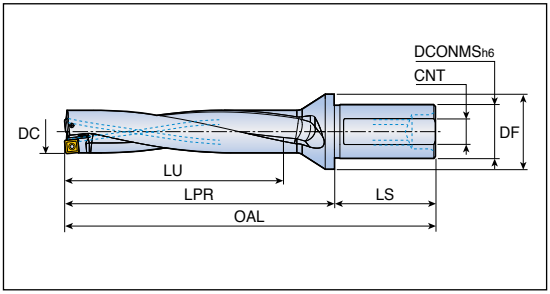
TDRILL

Indexable drill holders



• Drilling depth: 5xdiameter





Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TDR 5125-20T2-05	12.5	20	25	65	83	50	M13X1.0	SPMG 05...
5130-20T2-05	13.0	20	25	65	83	50	M13X1.0	DG/DK
5135-20T2-05	13.5	20	25	70	88	50	M13X1.0	SPGG 05..DA
5140-20T2-05	14.0	20	25	70	88	50	M13X1.0	D154-155
5145-20T2-05	14.5	20	25	75	94	50	M13X1.0	
5150-20T2-05	15.0	20	25	75	94	50	M13X1.0	
5155-25T2-06	15.5	25	32	80	100	56	M16X1.5	SPMG 06...
5160-25T2-06	16.0	25	32	80	100	56	M16X1.5	DG/DK
5165-25T2-06	16.5	25	32	85	105	56	M16X1.5	SPGG 06..DA
5170-25T2-06	17.0	25	32	85	105	56	M16X1.5	D154-155
5175-25T2-06	17.5	25	32	90	111	56	M16X1.5	
5180-25T2-06	18.0	25	32	90	111	56	M16X1.5	
5185-25T2-06	18.5	25	32	95	116	56	M16X1.5	
5190-25T2-06	19.0	25	32	95	116	56	M16X1.5	
5195-25T2-06	19.5	25	32	100	123	56	M16X1.5	
5200-25T2-06	20.0	25	32	100	123	56	M16X1.5	
5205-25T2-06	20.5	25	32	105	128	56	M16X1.5	
5210-25T2-06	21.0	25	32	105	128	56	M16X1.5	
5215-25T2-06	21.5	25	32	110	133	56	M16X1.5	
5220-25T2-07	22.0	25	32	110	133	56	M22X2.0	SPMG 07...
5225-32T2-07	22.5	32	40	115	140	60	M22X2.0	DG/DK
5230-32T2-07	23.0	32	40	115	140	60	M22X2.0	SPGG 07..DA
5235-32T2-07	23.5	32	40	120	146	60	M22X2.0	D154-155
5240-32T2-07	24.0	32	40	120	146	60	M22X2.0	
5245-32T2-07	24.5	32	40	125	152	60	M22X2.0	
5250-32T2-07	25.0	32	40	125	152	60	M22X2.0	
5255-32T2-07	25.5	32	40	130	157	60	M22X2.0	
5260-32T2-07	26.0	32	40	130	157	60	M22X2.0	
5265-32T2-07	26.5	32	40	135	162	60	M22X2.0	
5270-32T2-07	27.0	32	40	135	162	60	M22X2.0	
5275-32T2-07	27.5	32	40	140	168	60	Rc 1/4	

Cutting Condition D200

• OAL = LPR+LS

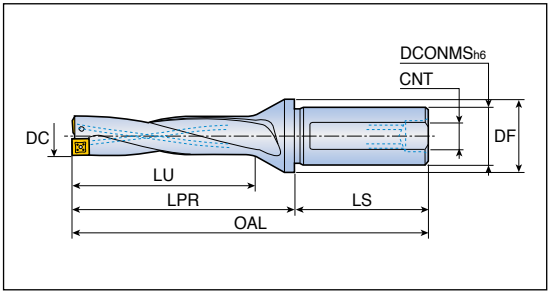
ADVANCE MACHINING TaeguTec Industry 4.0

TDR 5...-T2

TDRILL

Indexable drill holders





• Drilling depth: 5xdiameter

Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TDR 5280-32T2-09	28.0	32	40	140	168	60	Rc 1/4	SPMG 09...
5285-32T2-09	28.5	32	40	145	173	60	Rc 1/4	DG/DK
5290-32T2-09	29.0	32	40	145	173	60	Rc 1/4	SPGG 09..DA
5295-32T2-09	29.5	32	40	150	181	60	Rc 1/4	D154-155
5300-32T2-09	30.0	32	40	150	181	60	Rc 1/4	
5300-40T2-09	30.0	40	50	150	181	70	Rc 1/4	
5310-32T2-09	31.0	32	40	155	187	60	Rc 1/4	
5310-40T2-09	31.0	40	50	155	187	70	Rc 1/4	
5320-32T2-09	32.0	32	40	160	192	60	Rc 1/4	
5320-40T2-09	32.0	40	50	160	192	70	Rc 1/4	
5330-32T2-09	33.0	32	40	165	198	60	Rc 1/4	
5330-40T2-09	33.0	40	50	165	198	70	Rc 1/4	
5340-32T2-11	34.0	32	50	170	203	60	Rc 1/4	SPMG 11...
5340-40T2-11	34.0	40	55	170	203	70	Rc 1/4	DG/DK
5350-32T2-11	35.0	32	50	175	209	60	Rc 1/4	SPGG 11..DA
5350-40T2-11	35.0	40	55	175	209	70	Rc 1/4	D154-155
5360-32T2-11	36.0	32	50	180	215	60	Rc 1/4	
5360-40T2-11	36.0	40	55	180	215	70	Rc 1/4	
5370-32T2-11	37.0	32	50	185	221	60	Rc 1/4	
5370-40T2-11	37.0	40	55	185	221	70	Rc 1/4	
5380-32T2-11	38.0	32	50	190	227	60	Rc 1/4	
5380-40T2-11	38.0	40	55	190	227	70	Rc 1/4	
5390-32T2-11	39.0	32	50	195	232	60	Rc 1/4	
5390-40T2-11	39.0	40	55	195	232	70	Rc 1/4	
5400-32T2-11	40.0	32	50	200	238	60	Rc 1/4	
5400-40T2-11	40.0	40	55	200	238	70	Rc 1/4	
5410-40T2-11	41.0	40	55	205	244	70	Rc 1/4	

Cutting Condition D200

• OAL = LPR+LS

TaeguTec

TDR 5...-T2

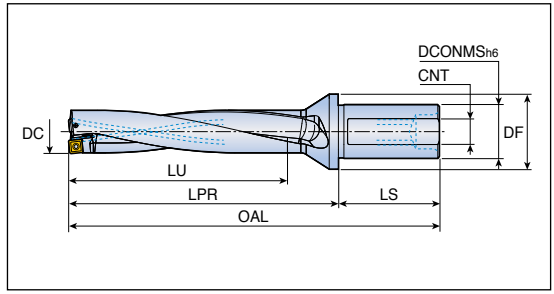
TDRILL

Indexable drill holders



• Drilling depth: 5xdiameter





Designation		Dimension (mm)							Insert
		DC	DCONMS	DF	LU	LPR	LS	CNT	
TDR	**5420-40T2-14**	42.0	40	60	210	249	70	Rc 1/4	SPMG 14... DG/DK SPGG 14..DA D154-155
	5430-40T2-14	43.0	40	60	215	255	70	Rc 1/4	
	5440-40T2-14	44.0	40	60	220	260	70	Rc 1/4	
	5450-40T2-14	45.0	40	60	225	267	70	Rc 1/4	
	5460-40T2-14	46.0	40	60	230	273	70	Rc 1/4	
	5470-40T2-14	47.0	40	60	235	278	70	Rc 1/4	
	5480-40T2-14	48.0	40	60	240	284	70	Rc 1/4	
	5490-40T2-14	49.0	40	60	245	289	70	Rc 1/4	
	5500-40T2-14	50.0	40	60	250	295	70	Rc 1/4	

• OAL = LPR+LS

Spare parts

Designation	Screw	Wrench	Plug	
				
TDR 5125 - 5150	TS 20043I/HG-P	TD 6P	SL 20 M	
TDR 5155 - 5215	TS 22052I/HG	TD 7	SL 25 M	
TDR 5220 - 5270	TS 25064I	TD 8	SL 25 M / SL 32 M	
TDR 5275	TS 25064I	TD 8	-	
TDR 5280 - 5330	TS 35088I	TD 10	-	
TDR 5340 - 5390	TS 40093I	TD 15	-	
TDR 5400 - 5410	TS 40093I	TD 15	-	
TDR 5420 - 5500	SO 50090I	TD 20	-	

Cutting Condition
D200

ADVANCE MACHINING
TaeguTec Industry 4.0

TDR 25...CA-T

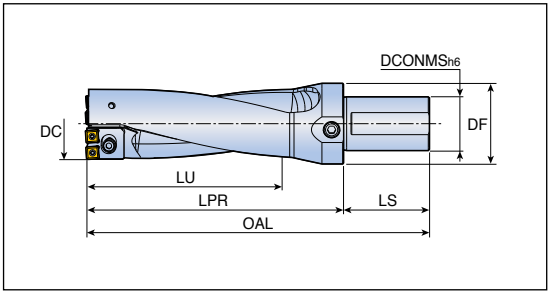
TDRILL

Indexable cartridge drill holders



• Drilling depth: 2.5xdiameter





Designation	Dimension (mm)						Setting plate	Insert
	DC	DCONMS	DF	LU	LPR	LS		
TDR 2551-53-50T2-07CA-T	51	50	75	133	170	80	-	SPMG 07... DG/DK SPGG 07..DA D154-155
	52	50	75	133	170	80	TDP-0701	
	53	50	75	133	170	80	TDP-0702	
2554-56-50T2-07CA-T	54	50	75	140	180	80	-	SPMG 07... DG/DK SPGG 07..DA D154-155
	55	50	75	140	180	80	TDP-0701	
	56	50	75	140	180	80	TDP-0702	
2557-62-50T2-09CA-T	57	50	75	155	201	80	-	SPMG 09... DG/DK SPGG 09..DA D154-155
	58	50	75	155	201	80	TDP-0901	
	59	50	75	155	201	80	TDP-0902	
	60	50	75	155	201	80	TDP-0903	
	61	50	75	155	201	80	TDP-0904	
	62	50	75	155	201	80	TDP-0905	
2563-66-50T2-09CA-T	63	50	75	165	215	80	-	SPMG 09... DG/DK SPGG 09..DA D154-155
	64	50	75	165	215	80	TDP-0901	
	65	50	75	165	215	80	TDP-0902	
	66	50	75	165	215	80	TDP-0903	
2567-73-50T2-11CA-T	67	50	75	183	240	80	-	SPMG 11... DG/DK SPGG 11..DA D154-155
	68	50	75	183	240	80	TDP-1101	
	69	50	75	183	240	80	TDP-1102	
	70	50	75	183	240	80	TDP-1103	
	71	50	75	183	240	80	TDP-1104	
	72	50	75	183	240	80	TDP-1105	
	73	50	75	183	240	80	TDP-1106	
2574-80-50T2-12CA-T	74	50	75	200	250	80	-	SPMG 12...DG D154
	75	50	75	200	250	80	TDP-1101	
	76	50	75	200	250	80	TDP-1102	
	77	50	75	200	250	80	TDP-1103	
	78	50	75	200	250	80	TDP-1104	
	79	50	75	200	250	80	TDP-1105	
	80	50	75	200	250	80	TDP-1106	

Cutting Condition D198

• OAL = LPR+LS

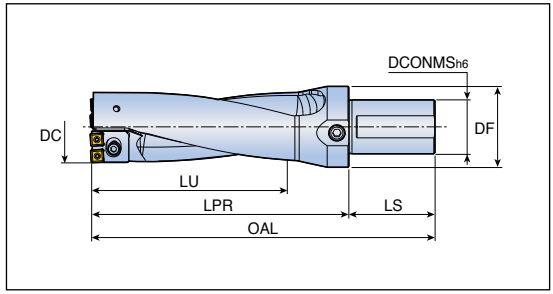
TaeguTec

TDR 35...CA-T

TDRILL

Indexable cartridge drill holders





• Drilling depth: 3.5xdiameter



Designation	Dimension (mm)						Setting plate	Insert
	DC	DCONMS	DF	LU	LPR	LS		
TDR 3551-53-50T2-07CA-T	51	50	75	186	223	80	-	SPMG 07... DG/DK SPGG 07..DA D154-155
	52	50	75	186	223	80	TDP-0701	
	53	50	75	186	223	80	TDP-0702	
3554-56-50T2-07CA-T	54	50	75	196	236	80	-	SPMG 07... DG/DK SPGG 07..DA D154-155
	55	50	75	196	236	80	TDP-0701	
	56	50	75	196	236	80	TDP-0702	
3557-62-50T2-09CA-T	57	50	75	217	263	80	-	SPMG 09... DG/DK SPGG 09..DA D154-155
	58	50	75	217	263	80	TDP-0901	
	59	50	75	217	263	80	TDP-0902	
	60	50	75	217	263	80	TDP-0903	
	61	50	75	217	263	80	TDP-0904	
	62	50	75	217	263	80	TDP-0905	
3563-66-50T2-09CA-T	63	50	75	231	281	80	-	SPMG 09... DG/DK SPGG 09..DA D154-155
	64	50	75	231	281	80	TDP-0901	
	65	50	75	231	281	80	TDP-0902	
	66	50	75	231	281	80	TDP-0903	
3567-73-50T2-11CA-T	67	50	75	256	313	80	-	SPMG 11... DG/DK SPGG 11..DA D154-155
	68	50	75	256	313	80	TDP-1101	
	69	50	75	256	313	80	TDP-1102	
	70	50	75	256	313	80	TDP-1103	
	71	50	75	256	313	80	TDP-1104	
	72	50	75	256	313	80	TDP-1105	
	73	50	75	256	313	80	TDP-1106	

Cutting Condition D198

• OAL = LPR+LS

ADVANCE MACHINING TaeguTec Industry 4.0

TDR 35...CA-T

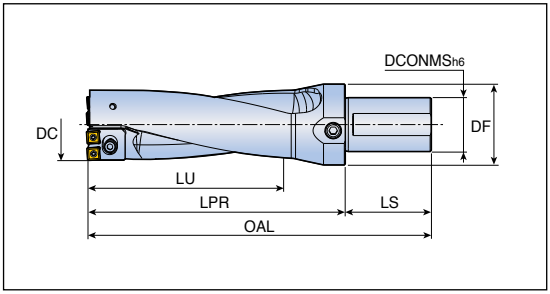
TDRILL

Indexable cartridge drill holders



• Drilling depth: 3.5xdiameter





Designation	Dimension (mm)						Setting plate	Insert
	DC	DCONMS	DF	LU	LPR	LS		
TDR 3574-80-50T2-12CA-T	74	50	75	280	330	80	-	SPMG 12...DG
	75	50	75	280	330	80	TDP-1101	D154
	76	50	75	280	330	80	TDP-1102	
	77	50	75	280	330	80	TDP-1103	
	78	50	75	280	330	80	TDP-1104	
	79	50	75	280	330	80	TDP-1105	
	80	50	75	280	330	80	TDP-1106	

• OAL = LPR+LS

Spare parts

Designation	Screw	Cartridge for peripheral	Cartridge for center
			
TDR.. 51-53...	TS 25064I	TDR 07CA-P1-T	TDR 07CA-C1-T
TDR.. 54-56...	TS 25064I	TDR 07CA-P2-T	TDR 07CA-C2-T
TDR.. 57-62...	TS 35088I	TDR 09CA-P1-T	TDR 09CA-C1-T
TDR.. 63-66...	TS 35088I	TDR 09CA-P2-T	TDR 09CA-C2-T
TDR.. 67-73...	TS 40093I	TDR 11CA-P1-T	TDR 11CA-C1-T
TDR.. 74-80...	TS 40093I	TDR 12CA-P2-T	TDR 12CA-C2-T

Spare parts for cartridges

Designation	Cartridge clamping screw	Washer	Setting plate screw
TDR 07CA-P1-T	SH M4x0.7x16	MW 4.3x8	TS 20043I/HG-P
TDR 07CA-C1-T	SH M4x0.7x16	MW 4.3x8	-
TDR 07CA-P2-T	SH M4x0.7x16	MW 4.3x8	TS 20043I/HG-P
TDR 07CA-C2-T	SH M4x0.7x16	MW 4.3x8	-
TDR 09CA-P1-T	SH M5x0.8x16	MW 5.5x10	SO 30055I
TDR 09CA-C1-T	SH M5x0.8x16	MW 5.5x10	-
TDR 09CA-P2-T	SH M5x0.8x16	MW 5.5x10	SO 30055I
TDR 09CA-C2-T	SH M5x0.8x16	MW 5.5x10	-
TDR 11CA-P1-T	SH M6x1.0x20	MW 6.4x12	SO 30055I
TDR 11CA-C1-T	SH M6x1.0x20	MW 6.4x12	-
TDR 12CA-P2-T	SH M6x1.0x20	MW 6.4x12	SO 30055I
TDR 12CA-C2-T	SH M6x1.0x20	MW 6.4x12	-

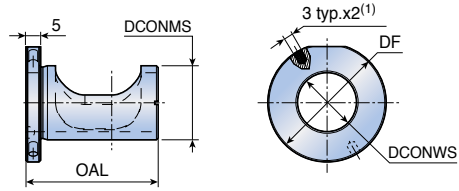
Cutting Condition D198

ECCENTER SLEEVE

TDRILL

Drill center adjustment sleeves / eccentric sleeve





Designation	Dimension (mm)			
	DCONWS	DCONMS	DF	OAL
ECCENTER SLEEVE 20x25	20	25	40	44
25x32	25	32	50	46
32x40	32	40	65	55
40x50	40	50	75	62

• (1) Holes for inserting a pin are used to facilitate radial adjustment of the sleeve (Pin is not supplied)

3ED...T...-3D

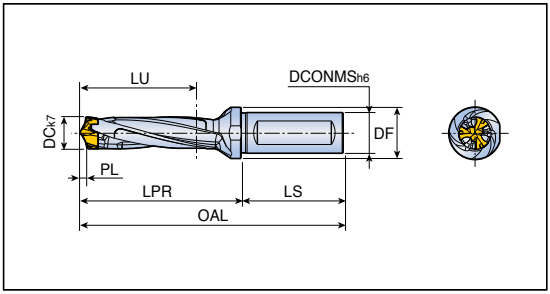
DRILLSFEED

Head changeable 3 flute drill holders - Weldon type shank



• Drilling depth: 3xdiameter





Designation	Dimension (mm)								Clamping key
	DC	DCONMS	DF	LU	LPR	LS	PL	SSC	
3ED 150-159-20T3-3D	15.0-15.9	20	25	49	73.9	50	3.31	15	K 3ED D14-D15
160-169-20T3-3D	16.0-16.9	20	25	52	79.0	50	3.70	16	K 3ED D16-D17
170-179-20T3-3D	17.0-17.9	20	25	55	84.0	50	3.88	17	K 3ED D16-D17
180-189-25T2-3D	18.0-18.9	25	32	58	90.1	56	4.07	18	K 3ED D18-D19
190-199-25T2-3D	19.0-19.9	25	32	61	94.7	56	4.26	19	K 3ED D18-D19
200-209-25T2-3D	20.0-20.9	25	32	64	99.3	56	4.44	20	K 3ED D20-D21





• OAL = LPR+LS
• SSC : Seat size code

3ED...T...-5D

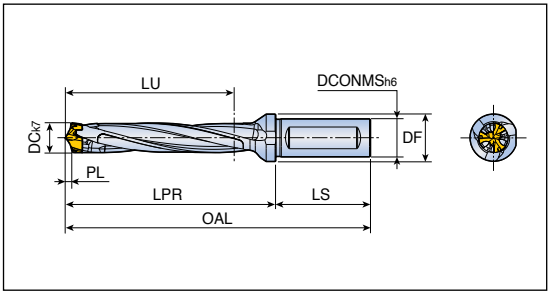
DRILLSFEED

Head changeable 3 flute drill holders - Weldon type shank



• Drilling depth: 5xdiameter





Designation	Dimension (mm)								Clamping key
	DC	DCONMS	DF	LU	LPR	LS	PL	SSC	
3ED 150-159-20T3-5D	15.0-15.9	20	25	79	103.9	50	3.31	15	K 3ED D14-D15
160-169-20T3-5D	16.0-16.9	20	25	84	111.0	50	3.70	16	K 3ED D16-D17
170-179-20T3-5D	17.0-17.9	20	25	89	118.0	50	3.88	17	K 3ED D16-D17
180-189-25T2-5D	18.0-18.9	25	32	94	126.1	56	4.07	18	K 3ED D18-D19
190-199-25T2-5D	19.0-19.9	25	32	99	132.7	56	4.26	19	K 3ED D18-D19
200-209-25T2-5D	20.0-20.9	25	32	104	139.3	56	4.44	20	K 3ED D20-D21





• OAL = LPR+LS
• SSC : Seat size code

TaeguTec

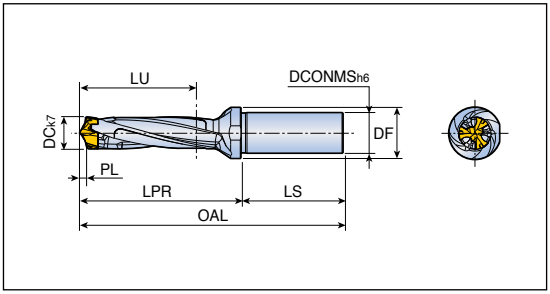
3ED...T0...-3D

DRILLSFEED

Head changeable 3 flute drill holders - Cylindrical type shank



• Drilling depth: 3xdiameter



Designation	Dimension (mm)								Clamping key
	DC	DCONMS	DF	LU	LPR	LS	PL	SSC	
3ED 150-159-20T0-3D	15.0-15.9	20	25	49	73.9	50	3.31	15	K 3ED D14-D15
160-169-20T0-3D	16.0-16.9	20	25	52	79.0	50	3.70	16	K 3ED D16-D17
170-179-20T0-3D	17.0-17.9	20	25	55	84.0	50	3.88	17	K 3ED D16-D17
180-189-25T0-3D	18.0-18.9	25	32	58	90.1	56	4.07	18	K 3ED D18-D19
190-199-25T0-3D	19.0-19.9	25	32	61	94.7	56	4.26	19	K 3ED D18-D19
200-209-25T0-3D	20.0-20.9	25	32	64	99.3	56	4.44	20	K 3ED D20-D21

D156 | Cutting Condition D202

• OAL = LPR+LS
• SSC : Seat size code

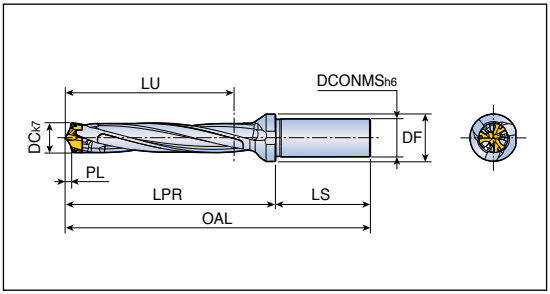
3ED...T0...-5D

DRILLSFEED

Head changeable 3 flute drill holders - Cylindrical type shank



• Drilling depth: 5xdiameter



Designation	Dimension (mm)								Clamping key
	DC	DCONMS	DF	LU	LPR	LS	PL	SSC	
3ED 150-159-20T0-5D	15.0-15.9	20	25	79	103.9	50	3.31	15	K 3ED D14-D15
160-169-20T0-5D	16.0-16.9	20	25	84	111.0	50	3.70	16	K 3ED D16-D17
170-179-20T0-5D	17.0-17.9	20	25	89	118.0	50	3.88	17	K 3ED D16-D17
180-189-25T0-5D	18.0-18.9	25	32	94	126.1	56	4.07	18	K 3ED D18-D19
190-199-25T0-5D	19.0-19.9	25	32	99	132.7	56	4.26	19	K 3ED D18-D19
200-209-25T0-5D	20.0-20.9	25	32	104	139.3	56	4.44	20	K 3ED D20-D21

D156 | Cutting Condition D202

• OAL = LPR+LS
• SSC : Seat size code

ADVANCE MACHINING
TaeguTec Industry 4.0

TCD...T...-1.5D

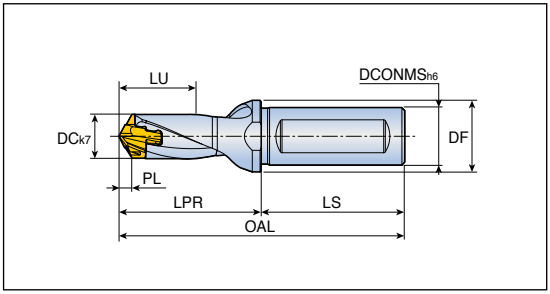
DRILLRUSH

Head changeable drill holders - Weldon type shank



• Drilling depth: 1.5xdiameter





Designation	Dimension (mm)								Clamping key
	DC	DCONMS	DF	LU	LPR	LS	PL	SSC	
TCD 060-064-12T3-1.5D	6.0-6.4	12	16	10	23.0	45	0.96	6	K TCD D060-D099
065-069-12T3-1.5D	6.5-6.9	12	16	11	24.1	45	1.18	6.5	
070-074-12T3-1.5D	7.0-7.4	12	16	12	25.1	45	1.01	7	
075-079-12T3-1.5D	7.5-7.9	12	16	12	25.9	45	1.10	7	
080-089-12T3-1.5D	8.0-8.9	12	16	13	27.4	45	1.20	8	
090-099-12T3-1.5D	9.0-9.9	12	16	15	29.3	45	1.35	9	
100-109-16T3-1.5D	10.0-10.9	16	20	17	31.2	48	1.50	10	K TCD D100-D199
110-119-16T3-1.5D	11.0-11.9	16	20	19	33.1	48	1.67	11	
120-129-16T3-1.5D	12.0-12.9	16	20	20	35.0	48	1.82	12	
130-139-16T3-1.5D	13.0-13.9	16	20	22	37.1	48	1.96	13	
140-149-16T3-1.5D	14.0-14.9	16	20	23	41.1	48	2.12	14	
150-159-20T3-1.5D	15.0-15.9	20	25	25	46.2	50	2.27	15	
160-169-20T3-1.5D	16.0-16.9	20	25	26	49.3	50	2.42	16	
170-179-20T3-1.5D	17.0-17.9	20	25	29	52.4	50	2.59	17	
180-189-25T2-1.5D	18.0-18.9	25	32	30	55.5	56	2.73	18	
190-199-25T2-1.5D	19.0-19.9	25	32	32	58.5	56	2.88	19	
200-209-25T2-1.5D	20.0-20.9	25	32	33	61.6	56	3.02	20	K TCD D200-D269
210-219-25T2-1.5D	21.0-21.9	25	32	35	64.7	56	3.18	21	
220-229-25T2-1.5D	22.0-22.9	25	32	36	67.8	56	3.24	22	
230-239-32T2-1.5D	23.0-23.9	32	42	38	70.8	60	3.46	23	
240-249-32T2-1.5D	24.0-24.9	32	42	40	73.9	60	3.62	24	
250-259-32T2-1.5D	25.0-25.9	32	42	42	77.0	60	3.80	25	



• OAL = LPR+LS
• SSC : Seat size code

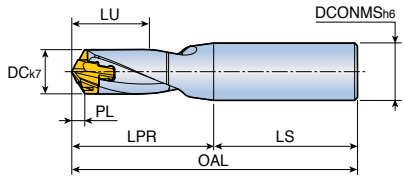
TaeguTec

TCD...S0-1.5D

DRILLRUSH

Head changeable drill holders - Cylindrical type shank





• Drilling depth: 1.5xdiameter

Designation	Dimension (mm)							Clamping key
	DC	DCONMS	LU	LPR	LS	PL	SSC	
TCD 060-064-12S0-1.5D	6.0-6.4	12	10	23.0	45	0.96	6	K TCD D060-D099
065-069-12S0-1.5D	6.5-6.9	12	11	24.1	45	1.18	6.5	
070-074-12S0-1.5D	7.0-7.4	12	12	25.1	45	1.01	7	
075-079-12S0-1.5D	7.5-7.9	12	12	25.9	45	1.10	7	
080-089-12S0-1.5D	8.0-8.9	12	13	27.4	45	1.20	8	
090-099-12S0-1.5D	9.0-9.9	12	15	29.3	45	1.35	9	
100-109-16S0-1.5D	10.0-10.9	16	17	31.2	48	1.50	10	K TCD D100-D199
110-119-16S0-1.5D	11.0-11.9	16	19	33.1	48	1.67	11	
120-129-16S0-1.5D	12.0-12.9	16	20	35.0	48	1.82	12	
130-139-16S0-1.5D	13.0-13.9	16	22	37.1	48	1.96	13	
140-149-16S0-1.5D	14.0-14.9	16	23	41.1	48	2.12	14	
150-159-20S0-1.5D	15.0-15.9	20	25	46.2	50	2.27	15	
160-169-20S0-1.5D	16.0-16.9	20	26	49.3	50	2.42	16	
170-179-20S0-1.5D	17.0-17.9	20	29	52.4	50	2.59	17	
180-189-25S0-1.5D	18.0-18.9	25	30	55.5	56	2.73	18	
190-199-25S0-1.5D	19.0-19.9	25	32	58.5	56	2.88	19	
200-209-25S0-1.5D	20.0-20.9	25	33	61.6	56	3.02	20	K TCD D200-D269
210-219-25S0-1.5D	21.0-21.9	25	35	64.7	56	3.18	21	
220-229-25S0-1.5D	22.0-22.9	25	36	67.8	56	3.24	22	
230-239-32S0-1.5D	23.0-23.9	32	38	70.8	60	3.46	23	
240-249-32S0-1.5D	24.0-24.9	32	40	73.9	60	3.62	24	
250-259-32S0-1.5D	25.0-25.9	32	42	77.0	60	3.80	25	

D158 Cutting Condition D204

• OAL = LPR+LS
• SSC : Seat size code

ADVANCE MACHINING TaeguTec Industry 4.0

TCD...T...-3D

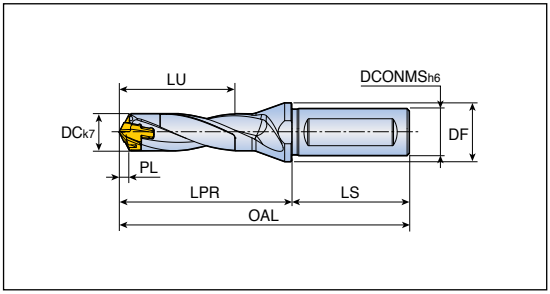
DRILLRUSH

Head changeable drill holders - Weldon type shank



• Drilling depth: 3xdiameter





Designation	Dimension (mm)								Clamping key
	DC	DCONMS	DF	LU	LPR	LS	PL	SSC	
TCD 060-064-12T3-3D	6.0-6.4	12	16	19	32.0	45	0.96	6	K TCD D060-D099
065-069-12T3-3D	6.5-6.9	12	16	21	33.8	45	1.18	6.5	
070-074-12T3-3D	7.0-7.4	12	16	22	35.6	45	1.01	7	
075-079-12T3-3D	7.5-7.9	12	16	24	37.1	45	1.10	7	
080-084-12T3-3D	8.0-8.4	12	16	25	39.4	45	1.20	8	
085-089-12T3-3D	8.5-8.9	12	16	27	40.9	45	1.29	8	
090-094-12T3-3D	9.0-9.4	12	16	28	42.8	45	1.35	9	
095-099-12T3-3D	9.5-9.9	12	16	30	44.3	45	1.44	9	
100-104-16T3-3D	10.0-10.4	16	20	32	46.2	48	1.50	10	K TCD D100-D199
105-109-16T3-3D	10.5-10.9	16	20	34	47.7	48	1.59	10	
110-114-16T3-3D	11.0-11.4	16	20	35	49.6	48	1.67	11	
115-119-16T3-3D	11.5-11.9	16	20	37	51.1	48	1.76	11	
120-124-16T3-3D	12.0-12.4	16	20	38	53.0	48	1.82	12	
125-129-16T3-3D	12.5-12.9	16	20	39	54.5	48	1.91	12	
130-134-16T3-3D	13.0-13.4	16	20	41	56.6	48	1.96	13	
135-139-16T3-3D	13.5-13.9	16	20	43	58.1	48	2.05	13	
140-144-16T3-3D	14.0-14.4	16	20	44	62.2	48	2.12	14	
145-149-16T3-3D	14.5-14.9	16	20	46	63.7	48	2.21	14	
150-159-20T3-3D	15.0-15.9	20	25	47	68.7	50	2.27	15	
160-169-20T3-3D	16.0-16.9	20	25	50	73.3	50	2.42	16	
170-179-20T3-3D	17.0-17.9	20	25	54	77.9	50	2.59	17	
180-189-25T2-3D	18.0-18.9	25	32	57	82.5	56	2.73	18	
190-199-25T2-3D	19.0-19.9	25	32	60	87.0	56	2.88	19	
200-209-25T2-3D	20.0-20.9	25	32	63	91.6	56	3.02	20	K TCD D200-D269
210-219-25T2-3D	21.0-21.9	25	32	66	96.2	56	3.18	21	
220-229-25T2-3D	22.0-22.9	25	32	69	100.8	56	3.24	22	
230-239-32T2-3D	23.0-23.9	32	42	72	105.3	60	3.46	23	
240-249-32T2-3D	24.0-24.9	32	42	76	109.9	60	3.62	24	
250-259-32T2-3D	25.0-25.9	32	42	79	114.5	60	3.80	25	







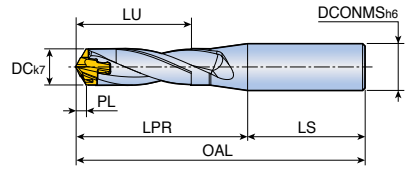
• OAL = LPR+LS
• SSC : Seat size code

TaeguTec

TCD...S0-3D

Head changeable drill holders - Cylindrical type shank





• Drilling depth: 3xdiameter

Designation	Dimension (mm)							Clamping key
	DC	DCONMS	LU	LPR	LS	PL	SSC	
TCD 060-064-12S0-3D	6.0-6.4	12	19	32.0	45	0.96	6	K TCD D060-D099
065-069-12S0-3D	6.5-6.9	12	21	33.8	45	1.18	6.5	
070-074-12S0-3D	7.0-7.4	12	22	35.6	45	1.01	7	
075-079-12S0-3D	7.5-7.9	12	24	37.1	45	1.10	7	
080-084-12S0-3D	8.0-8.4	12	25	39.4	45	1.20	8	
085-089-12S0-3D	8.5-8.9	12	27	40.9	45	1.29	8	
090-094-12S0-3D	9.0-9.4	12	28	42.8	45	1.35	9	
095-099-12S0-3D	9.5-9.9	12	30	44.3	45	1.44	9	
100-104-16S0-3D	10.0-10.4	16	32	46.2	48	1.50	10	K TCD D100-D199
105-109-16S0-3D	10.5-10.9	16	34	47.7	48	1.59	10	
110-114-16S0-3D	11.0-11.4	16	35	49.6	48	1.67	11	
115-119-16S0-3D	11.5-11.9	16	37	51.1	48	1.76	11	
120-124-16S0-3D	12.0-12.4	16	38	53.0	48	1.82	12	
125-129-16S0-3D	12.5-12.9	16	39	54.5	48	1.91	12	
130-134-16S0-3D	13.0-13.4	16	41	56.6	48	1.96	13	
135-139-16S0-3D	13.5-13.9	16	43	58.1	48	2.05	13	
140-144-16S0-3D	14.0-14.4	16	44	62.1	48	2.12	14	
145-149-16S0-3D	14.5-14.9	16	46	63.7	48	2.21	14	
150-159-20S0-3D	15.0-15.9	20	47	68.7	50	2.27	15	
160-169-20S0-3D	16.0-16.9	20	50	73.3	50	2.42	16	
170-179-20S0-3D	17.0-17.9	20	54	77.9	50	2.59	17	
180-189-25S0-3D	18.0-18.9	25	57	82.5	56	2.73	18	
190-199-25S0-3D	19.0-19.9	25	60	87.0	56	2.88	19	
200-209-25S0-3D	20.0-20.9	25	63	91.6	56	3.02	20	K TCD D200-D269
210-219-25S0-3D	21.0-21.9	25	66	96.2	56	3.18	21	
220-229-25S0-3D	22.0-22.9	25	69	100.8	56	3.24	22	
230-239-32S0-3D	23.0-23.9	32	72	105.3	60	3.46	23	
240-249-32S0-3D	24.0-24.9	32	76	109.9	60	3.62	24	
250-259-32S0-3D	25.0-25.9	32	79	114.5	60	3.80	25	

D158 Cutting Condition D204

• OAL = LPR+LS
• SSC : Seat size code

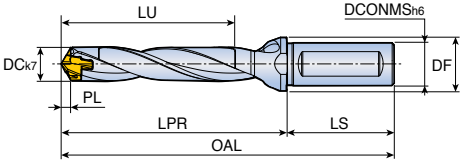
ADVANCE MACHINING
TaeguTec Industry 4.0

TCD...T...-5D

DRILLRUSH

Head changeable drill holders - Weldon type shank





• Drilling depth: 5xdiameter

Designation	Dimension (mm)								Clamping key
	DC	DCONMS	DF	LU	LPR	LS	PL	SSC	
TCD 060-064-12T3-5D	6.0-6.4	12	16	31	44.0	45	0.96	6	K TCD D060-D099
065-069-12T3-5D	6.5-6.9	12	16	34	46.8	45	1.18	6.5	
070-074-12T3-5D	7.0-7.4	12	16	36	49.6	45	1.01	7	
075-079-12T3-5D	7.5-7.9	12	16	39	52.1	45	1.10	7	
080-084-12T3-5D	8.0-8.4	12	16	41	55.4	45	1.20	8	
085-089-12T3-5D	8.5-8.9	12	16	44	57.9	45	1.29	8	
090-094-12T3-5D	9.0-9.4	12	16	46	60.8	45	1.35	9	
095-099-12T3-5D	9.5-9.9	12	16	49	63.3	45	1.44	9	
100-104-16T3-5D	10.0-10.4	16	20	52	66.2	48	1.50	10	K TCD D100-D199
105-109-16T3-5D	10.5-10.9	16	20	55	68.7	48	1.59	10	
110-114-16T3-5D	11.0-11.4	16	20	57	71.6	48	1.67	11	
115-119-16T3-5D	11.5-11.9	16	20	60	74.1	48	1.76	11	
120-124-16T3-5D	12.0-12.4	16	20	62	77.0	48	1.82	12	
125-129-16T3-5D	12.5-12.9	16	20	64	79.5	48	1.91	12	
130-134-16T3-5D	13.0-13.4	16	20	67	82.6	48	1.96	13	
135-139-16T3-5D	13.5-13.9	16	20	70	85.1	48	2.05	13	
140-144-16T3-5D	14.0-14.4	16	20	72	90.2	48	2.12	14	
145-149-16T3-5D	14.5-14.9	16	20	75	92.7	48	2.21	14	
150-159-20T3-5D	15.0-15.9	20	25	77	98.7	50	2.27	15	
160-169-20T3-5D	16.0-16.9	20	25	82	105.3	50	2.42	16	
170-179-20T3-5D	17.0-17.9	20	25	88	111.9	50	2.59	17	
180-189-25T2-5D	18.0-18.9	25	32	93	118.5	56	2.73	18	
190-199-25T2-5D	19.0-19.9	25	32	98	125.0	56	2.88	19	
200-209-25T2-5D	20.0-20.9	25	32	103	131.6	56	3.02	20	K TCD D200-D269
210-219-25T2-5D	21.0-21.9	25	32	108	138.2	56	3.18	21	
220-229-25T2-5D	22.0-22.9	25	32	113	144.8	56	3.24	22	
230-239-32T2-5D	23.0-23.9	32	42	118	151.3	60	3.46	23	
240-249-32T2-5D	24.0-24.9	32	42	124	157.9	60	3.62	24	
250-259-32T2-5D	25.0-25.9	32	42	129	164.5	60	3.80	25	

D158 | Sleeve D96 | Cutting Condition D204

• OAL = LPR+LS
• SSC : Seat size code

TaeguTec

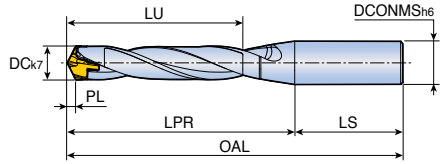
TCD...S0-5D

Head changeable drill holders - Cylindrical type shank



• Drilling depth: 5xdiameter





Designation	Dimension (mm)							Clamping key
	DC	DCONMS	LU	LPR	LS	PL	SSC	
TCD 060-064-12S0-5D	6.0-6.4	12	31	44.0	45	0.96	6	K TCD D060-D099
065-069-12S0-5D	6.5-6.9	12	34	46.8	45	1.18	6.5	
070-074-12S0-5D	7.0-7.4	12	36	49.6	45	1.01	7	
075-079-12S0-5D	7.5-7.9	12	39	52.1	45	1.10	7	
080-084-12S0-5D	8.0-8.4	12	41	55.4	45	1.20	8	
085-089-12S0-5D	8.5-8.9	12	44	57.9	45	1.29	8	
090-094-12S0-5D	9.0-9.4	12	46	60.8	45	1.35	9	
095-099-12S0-5D	9.5-9.9	12	49	63.3	45	1.44	9	
100-104-16S0-5D	10.0-10.4	16	52	66.2	48	1.50	10	K TCD D100-D199
105-109-16S0-5D	10.5-10.9	16	55	68.7	48	1.59	10	
110-114-16S0-5D	11.0-11.4	16	57	71.6	48	1.67	11	
115-119-16S0-5D	11.5-11.9	16	60	74.1	48	1.76	11	
120-124-16S0-5D	12.0-12.4	16	62	77.0	48	1.82	12	
125-129-16S0-5D	12.5-12.9	16	64	79.5	48	1.91	12	
130-134-16S0-5D	13.0-13.4	16	67	82.6	48	1.96	13	
135-139-16S0-5D	13.5-13.9	16	70	85.1	48	2.05	13	
140-144-16S0-5D	14.0-14.4	16	72	90.2	48	2.12	14	
145-149-16S0-5D	14.5-14.9	16	75	92.7	48	2.21	14	
150-159-20S0-5D	15.0-15.9	20	77	98.7	50	2.27	15	
160-169-20S0-5D	16.0-16.9	20	82	105.3	50	2.42	16	
170-179-20S0-5D	17.0-17.9	20	88	111.9	50	2.59	17	
180-189-25S0-5D	18.0-18.9	25	93	118.5	56	2.73	18	
190-199-25S0-5D	19.0-19.9	25	98	125.0	56	2.88	19	
200-209-25S0-5D	20.0-20.9	25	103	131.6	56	3.02	20	K TCD D200-D269
210-219-25S0-5D	21.0-21.9	25	108	138.2	56	3.18	21	
220-229-25S0-5D	22.0-22.9	25	113	144.8	56	3.24	22	
230-239-32S0-5D	23.0-23.9	32	118	151.3	60	3.46	23	
240-249-32S0-5D	24.0-24.9	32	124	157.9	60	3.62	24	
250-259-32S0-5D	25.0-25.9	32	129	164.5	60	3.80	25	



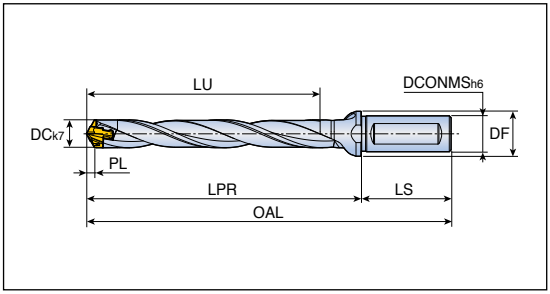
• OAL = LPR+LS
• SSC : Seat size code

TCD...T...-8D

DRILLRUSH

Head changeable drill holders - Weldon type shank





• Drilling depth: 8xdiameter



Designation		Dimension (mm)								Clamping key
		DC	DCONMS	DF	LU	LPR	LS	PL	SSC	
TCD	070-074-12T3-8D	7.0-7.4	12	16	57	70.6	45	1.01	7	K TCD D060-D099
	075-079-12T3-8D	7.5-7.9	12	16	61	74.6	45	1.10	7	
	080-084-12T3-8D	8.0-8.4	12	16	65	79.4	45	1.20	8	
	085-089-12T3-8D	8.5-8.9	12	16	69	83.4	45	1.29	8	
	090-094-12T3-8D	9.0-9.4	12	16	73	87.8	45	1.35	9	
	095-099-12T3-8D	9.5-9.9	12	16	77	91.8	45	1.44	9	
	100-104-16T3-8D	10.0-10.4	16	20	82	96.2	48	1.50	10	K TCD D100-D199
	105-109-16T3-8D	10.5-10.9	16	20	86	100.2	48	1.59	10	
	110-114-16T3-8D	11.0-11.4	16	20	90	104.6	48	1.67	11	
	115-119-16T3-8D	11.5-11.9	16	20	94	108.6	48	1.76	11	
	120-124-16T3-8D	12.0-12.4	16	20	98	113.0	48	1.82	12	
	125-129-16T3-8D	12.5-12.9	16	20	102	117.0	48	1.91	12	
	130-134-16T3-8D	13.0-13.4	16	20	106	121.6	48	1.96	13	
	135-139-16T3-8D	13.5-13.9	16	20	110	125.6	48	2.05	13	
	140-144-16T3-8D	14.0-14.4	16	20	114	132.2	48	2.12	14	
	145-149-16T3-8D	14.5-14.9	16	20	118	136.2	48	2.21	14	
	150-159-20T3-8D	15.0-15.9	20	25	122	143.7	50	2.27	15	
	160-169-20T3-8D	16.0-16.9	20	25	130	153.3	50	2.42	16	
	170-179-20T3-8D	17.0-17.9	20	25	139	162.9	50	2.59	17	
	180-189-25T2-8D	18.0-18.9	25	32	147	172.5	56	2.73	18	
	190-199-25T2-8D	19.0-19.9	25	32	155	182.0	56	2.88	19	
	200-209-25T2-8D	20.0-20.9	25	32	163	191.6	56	3.02	20	K TCD D200-D269
	210-219-25T2-8D	21.0-21.9	25	32	171	201.2	56	3.18	21	
	220-229-25T2-8D	22.0-22.9	25	32	179	210.8	56	3.24	22	
	230-239-32T2-8D	23.0-23.9	32	42	187	220.3	60	3.46	23	
	240-249-32T2-8D	24.0-24.9	32	42	196	229.9	60	3.62	24	
	250-259-32T2-8D	25.0-25.9	32	42	204	239.5	60	3.80	25	







• It is recommended to make the pilot hole with a 1.5D holder
• OAL = LPR+LS
• SSC : Seat size code

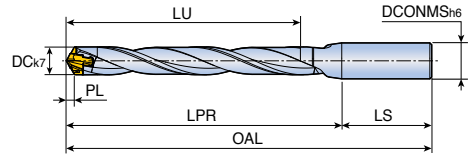
TaeguTec

Head changeable drill holders - Cylindrical type shank



• Drilling depth: 8xdiameter





Designation	Dimension (mm)							Clamping key
	DC	DCONMS	LU	LPR	LS	PL	SSC	
TCD 070-074-12S0-8D	7.0-7.4	12	57	70.6	45	1.01	7	K TCD D060-D099
075-079-12S0-8D	7.5-7.9	12	61	74.6	45	1.10	7	
080-084-12S0-8D	8.0-8.4	12	65	79.4	45	1.20	8	
085-089-12S0-8D	8.5-8.9	12	69	83.4	45	1.29	8	
090-094-12S0-8D	9.0-9.4	12	73	87.8	45	1.35	9	
095-099-12S0-8D	9.5-9.9	12	77	91.8	45	1.44	9	
100-104-16S0-8D	10.0-10.4	16	82	96.2	48	1.50	10	K TCD D100-D199
105-109-16S0-8D	10.5-10.9	16	86	100.2	48	1.59	10	
110-114-16S0-8D	11.0-11.4	16	90	104.6	48	1.67	11	
115-119-16S0-8D	11.5-11.9	16	94	108.6	48	1.76	11	
120-124-16S0-8D	12.0-12.4	16	98	113.0	48	1.82	12	
125-129-16S0-8D	12.5-12.9	16	102	117.0	48	1.91	12	
130-134-16S0-8D	13.0-13.4	16	106	121.6	48	1.96	13	
135-139-16S0-8D	13.5-13.9	16	110	125.6	48	2.05	13	
140-144-16S0-8D	14.0-14.4	16	114	132.2	48	2.12	14	
145-149-16S0-8D	14.5-14.9	16	118	136.2	48	2.21	14	
150-159-20S0-8D	15.0-15.9	20	122	143.7	50	2.27	15	
160-169-20S0-8D	16.0-16.9	20	130	153.3	50	2.42	16	
170-179-20S0-8D	17.0-17.9	20	139	162.9	50	2.59	17	
180-189-25S0-8D	18.0-18.9	25	147	172.5	56	2.73	18	
190-199-25S0-8D	19.0-19.9	25	155	182.0	56	2.88	19	
200-209-25S0-8D	20.0-20.9	25	163	191.6	56	3.02	20	K TCD D200-D269
210-219-25S0-8D	21.0-21.9	25	171	201.2	56	3.18	21	
220-229-25S0-8D	22.0-22.9	25	179	210.8	56	3.24	22	
230-239-32S0-8D	23.0-23.9	32	187	220.3	60	3.46	23	
240-249-32S0-8D	24.0-24.9	32	196	229.9	60	3.62	24	
250-259-32S0-8D	25.0-25.9	32	204	239.5	60	3.80	25	



• It is recommended to make the pilot hole with a 1.5D holder
• OAL = LPR+LS
• SSC : Seat size code

TCD...S0-12D

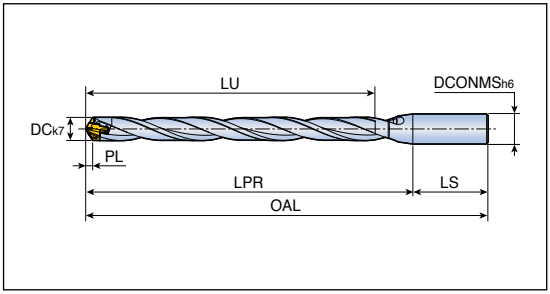
DRILLRUSH

Head changeable drill holders - Cylindrical type shank



• Drilling depth: 12xdiameter





Designation	Dimension (mm)							Clamping key
	DC	DCONMS	LU	LPR	LS	PL	SSC	
TCD 080-084-12S0-12D	8.0-8.4	12	97	111.4	45	1.20	8	K TCD D060-D099
085-089-12S0-12D	8.5-8.9	12	103	117.4	45	1.29	8	
090-094-12S0-12D	9.0-9.4	12	109	123.8	45	1.35	9	
095-099-12S0-12D	9.5-9.9	12	115	129.8	45	1.44	9	
100-104-16S0-12D	10.0-10.4	16	122	136.2	48	1.50	10	K TCD D100-D199
105-109-16S0-12D	10.5-10.9	16	128	142.2	48	1.59	10	
110-114-16S0-12D	11.0-11.4	16	134	148.6	48	1.67	11	
115-119-16S0-12D	11.5-11.9	16	140	154.6	48	1.76	11	
120-124-16S0-12D	12.0-12.4	16	146	161.0	48	1.82	12	
125-129-16S0-12D	12.5-12.9	16	152	167.0	48	1.91	12	
130-134-16S0-12D	13.0-13.4	16	158	173.6	48	1.96	13	
135-139-16S0-12D	13.5-13.9	16	164	179.6	48	2.05	13	
140-144-16S0-12D	14.0-14.4	16	170	188.2	48	2.12	14	
145-149-16S0-12D	14.5-14.9	16	176	194.2	48	2.21	14	
150-159-20S0-12D	15.0-15.9	20	182	203.7	50	2.27	15	
160-169-20S0-12D	16.0-16.9	20	194	217.3	50	2.42	16	
170-179-20S0-12D	17.0-17.9	20	207	230.9	50	2.59	17	
180-189-25S0-12D	18.0-18.9	25	219	244.5	56	2.73	18	
190-199-25S0-12D	19.0-19.9	25	221	258.0	56	2.88	19	
200-209-25S0-12D	20.0-20.9	25	243	271.6	56	3.02	20	K TCD D200-D269
210-219-25S0-12D	21.0-21.9	25	255	285.2	56	3.18	21	
220-229-25S0-12D	22.0-22.9	25	267	298.8	56	3.24	22	
230-239-32S0-12D	23.0-23.9	32	289	312.3	60	3.46	23	
240-249-32S0-12D	24.0-24.9	32	292	325.9	60	3.62	24	
250-259-32S0-12D	25.0-25.9	32	304	339.5	60	3.80	25	

D158

Cutting Condition D204

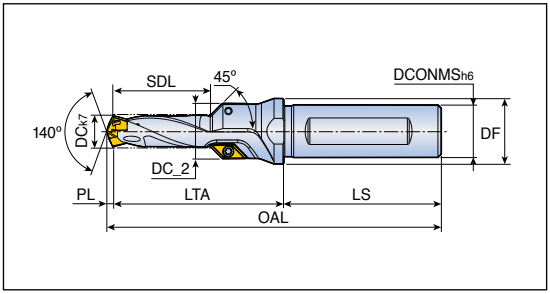
• It is recommended to make the pilot hole with a 1.5D holder
• OAL = LPR+LS
• SSC : Seat size code

TCD...-M

DRILLRUSH

Head changeable drill holders for pre-thread hole





Designation	ISO thread	DC	Dimension (mm)							Drill dia. range	Insert
			SDL	LTA	LS	DC_2	DCONMS	DF	PL		
TCD 068x21x12T3-M8	M8	6.8	21	43.77	45	13.5	12	16	1.23	6.5-6.9	AOMT 06...-C45
085x26x12T3-M10	M10	8.5	26	48.71	45	15.5	12	16	1.29	8.5-8.9	D172
102x30x16T3-M12	M12	10.2	30	52.46	48	17.0	16	20	1.54	10.0-10.4	
120x35x16T3-M14	M14	12.0	35	59.18	48	19.0	16	20	1.82	12.0-12.4	
140x39x20T3-M16	M16	14.0	39	66.88	50	21.0	20	25	2.12	14.0-14.4	
175x42x20T3-M20	M20	17.5	42	69.32	50	24.5	20	27	2.68	17.0-17.9	
210x48x25T2-M24	M24	21.0	48	76.82	56	28.0	25	32	3.18	21.0-21.9	

• OAL = LTA+LS+PL

Spare parts

Designation	Screw	Wrench	Clamping key	
TCD 068	TS 22046I	TD 7	K TCD D060-D099	
TCD 085	TS 22046I	TD 7	K TCD D060-D099	
TCD 102 - 175	TS 22046I	TD 7	K TCD D100-D199	
TCD 210	TS 22046I	TD 7	K TCD D200-D269	

D158 | Sleeve D96 | Cutting Condition D204

Plug for coolant supply in a stationary machines

TaeguTec supplies special plugs with an internal thread for coolant connections used on lathes that can be pressed into the cavity on the back end of the shank.

Description	Shank diameter	Internal thread
PL-TCD-12	12	G 1/16
PL-TCD-16	16	G 1/16
PL-TCD-20	20	G 1/8
PL-TCD-25	25	G 1/8
PL-TCD-32	32	G 1/8

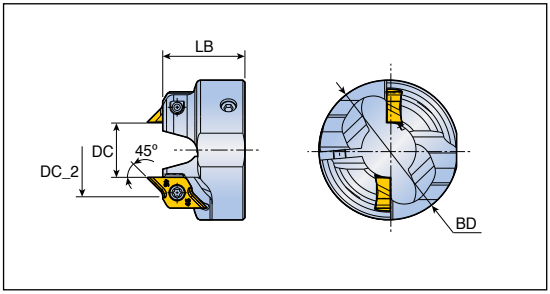


CFR D...-A45

DRILLRUSH

Chamfering ring tools





Designation	Dimension (mm)				Chamfer size	Chamfer insert
	DC	DC_2	BD	LB		
CFR D100-A45	9.8	16.56	34	20	2.5	CRNG 08...-45CD
D105-A45	10.3	17.06	34	20	2.5	D172
D110-A45	10.8	17.56	34	20	2.5	
D115-A45	11.3	18.06	34	20	2.5	
D120-A45	11.8	18.56	34	20	2.5	
D125-A45	12.3	19.06	34	20	2.5	
D130-A45	12.8	19.56	34	20	2.5	
D135-A45	13.3	20.06	34	20	2.5	
D140-A45	13.8	20.56	38	22	2.5	
D145-A45	14.3	21.06	38	22	2.5	
D150-A45	14.6	21.36	38	22	2.5	
D160-A45	15.6	22.36	42	23	2.5	
D170-A45	16.6	23.36	42	23	2.5	
D180-A45	17.6	24.36	42	23	2.5	
D190-A45	18.6	25.36	42	24	2.5	
D200-A45	19.6	26.36	42	24	2.5	
D210-A45	20.6	27.36	47	24	2.5	
D220-A45	21.6	28.36	47	24	2.5	
D230-A45	22.6	29.36	47	24	2.5	
D240-A45	23.6	30.36	47	24	2.5	
D250-A45	24.6	31.36	47	24	2.5	

Spare parts

Designation	Insert screw	Wrench	Clamping screw	L-wrench
CFR D100 - D135	SO 25065I	TD 7	SH M3x0.5x10 (1)	L-W2.5
CFR D140 - D150	SO 25065I	TD 7	SH M4x0.7x12 (2)	L-W3
CFR D160 - D250	SO 25065I	TD 7	SH M5x0.8x16 (3)	L-W4

Technical Data D244

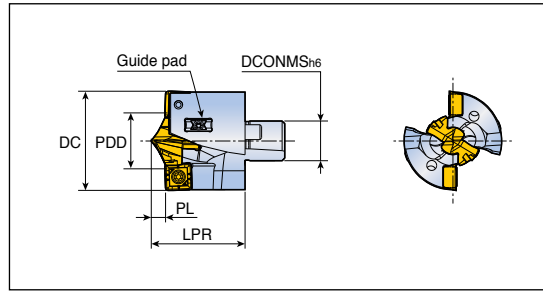
• (1) Clamping torque: 2-3 [N•m] (2) Clamping torque: 3.5-4.5 [N•m] (3) Clamping torque: 5-6 [N•m]

TNDH-TP

MODURDRILL

Modular drill heads





Designation		Dimension (mm)					Clamping Key	Insert	
		DC	DCONMS	LPR	PL	PDD		Center	Outer
TNDH	**2600-C26-TP**	26	10.4	24.9	3.98	15.9	K TCD D15-D16 CO	TCD-159-P-CO+	SPGX 06...DW
	2700-C26-TP	27	10.4	25.4	4.14	16.9	K TCD D15-D16 CO	TCD-169-P-CO+	SPGX 06...DW
	2800-C28-TP	28	11.2	26.9	4.29	17.9	K TCD D17-D19 CO	TCD-179-P-CO+	SPGX 06...DW
	2900-C28-TP	29	11.2	26.6	3.97	15.9	K TCD D15-D16 CO	TCD-159-P-CO+	SPGX 07...DW
	3000-C30-TP	30	12.0	28.3	4.14	16.9	K TCD D15-D16 CO	TCD-169-P-CO+	SPGX 07...DW
	3100-C30-TP	31	12.0	28.5	4.30	17.9	K TCD D17-D19 CO	TCD-179-P-CO+	SPGX 07...DW
	3200-C32-TP	32	12.8	30.3	4.46	18.9	K TCD D17-D19 CO	TCD-189-P-CO+	SPGX 07...DW
	3300-C32-TP	33	12.8	29.8	3.97	15.9	K TCD D15-D16 CO	TCD-159-P-CO+	SPGX 09...DW
	3400-C34-TP	34	13.6	31.6	4.14	16.9	K TCD D15-D16 CO	TCD-169-P-CO+	SPGX 09...DW
	3500-C34-TP	35	13.6	31.8	4.30	17.9	K TCD D17-D19 CO	TCD-179-P-CO+	SPGX 09...DW
	3600-C36-TP	36	14.4	33.5	4.46	18.9	K TCD D17-D19 CO	TCD-189-P-CO+	SPGX 09...DW
	3700-C36-TP	37	14.4	33.3	4.14	16.9	K TCD D15-D16 CO	TCD-169-P-CO+	SPGX 11...DW
	3800-C38-TP	38	15.2	35.0	4.30	17.9	K TCD D17-D19 CO	TCD-179-P-CO+	SPGX 11...DW
	3900-C38-TP	39	15.2	35.2	4.46	18.9	K TCD D17-D19 CO	TCD-189-P-CO+	SPGX 11...DW
	4000-C40-TP	40	16.0	36.9	4.62	19.9	K TCD D17-D19 CO	TCD-199-P-CO+	SPGX 11...DW
	4100-C40-TP	41	16.0	37.1	4.78	20.9	K TCD D20-D21 CO	TCD-209-P-CO+	SPGX 11...DW
	4200-C42-TP	42	16.8	38.9	4.95	21.9	K TCD D20-D21 CO	TCD-219-P-CO+	SPGX 11...DW
	4300-C42-TP	43	16.8	38.9	5.11	22.9	K TCD D22-D23 CO	TCD-229-P-CO+	SPGX 11...DW
									D173

- DCONMS : Holder connection size
- Guide pad is sold separately from drill head

Spare parts

Designation	For double pitch screw		For SPGX		For Guide pad	
	Screw1	Wrench1	Screw2	Wrench2	Screw3	Wrench3
TNDH 2600-2800	TDPS 0512-T7	TD 7	TS 22052I/HG	TD 7	TS 20043I/HG-P	TD 6P
TNDH 2900-3200	TDPS 0512-T7	TD 7	TS 25064I	TD 8	TS 20043I/HG-P	TD 6P
TNDH 3300-3500	TDPS 0512-T7	TD 7	TS 35088I	TD 10	TS 20043I/HG-P	TD 6P
TNDH 3600	TDPS 0618-T8	TD 8	TS 35088I	TD 10	TS 20043I/HG-P	TD 6P
TNDH 3700-4300	TDPS 0618-T8	TD 8	TS 40093I	TD 15	TS 20043I/HG-P	TD 6P

D173 | Guide Pad D191 | Cutting Condition D206 | Technical Data D248

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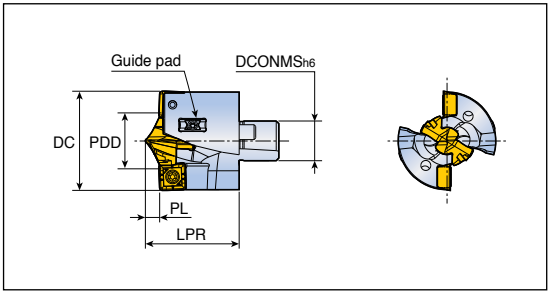
TNDH-TP

MODURDRILL

Modular drill heads







Designation		Dimension (mm)					Clamping Key	Insert	
		DC	DCONMS	LPR	PL	PDD		Center	Outer
TNDH	**4400-C44-TP**	44	17.6	40.8	5.28	23.9	K TCD D22-D23 CO	TCD-239-P-CO+	SPGX 11...DW
	4500-C44-TP	45	17.6	41.0	5.44	24.9	K TCD D24-D25 CO	TCD-249-P-CO+	SPGX 11...DW
	4600-C46-TP	46	18.4	42.2	4.95	21.9	K TCD D20-D21 CO	TCD-219-P-CO+	SPGX 14...DW
	4700-C46-TP	47	18.4	42.3	5.11	22.9	K TCD D22-D23 CO	TCD-229-P-CO+	SPGX 14...DW
	4800-C48-TP	48	19.2	44.0	5.28	23.9	K TCD D22-D23 CO	TCD-239-P-CO+	SPGX 14...DW
	4900-C48-TP	49	19.2	44.3	5.44	24.9	K TCD D24-D25 CO	TCD-249-P-CO+	SPGX 14...DW
	5000-C48-TP	50	19.2	46.0	5.61	25.9	K TCD D24-D25 CO	TCD-259-P-CO+	SPGX 14...DW
									D173

- DCONMS : Holder connection size
- Guide pad is sold separately from drill head

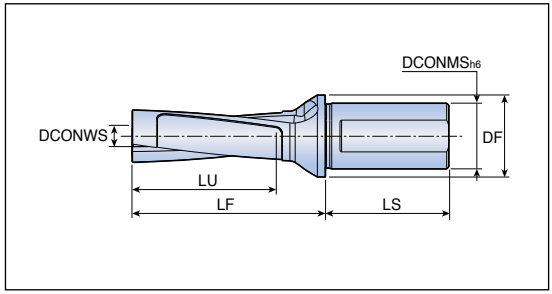
Spare parts

Designation	For double pitch screw		For SPGX		For Guide pad	
	Screw1	Wrench1	Screw2	Wrench2	Screw3	Wrench3
						
TNDH 4400-4500	TDPS 0722-W3.0	F-W3.0	TS 40093I	TD 15	TS 20043I/HG-P	TD 6P
TNDH 4600-5000	TDPS 0722-W3.0	F-W3.0	SO 50090I	TD 20	TS 20043I/HG-P	TD 6P

D173 Guide Pad D191 Cutting Condition D206 Technical Data D248

Modular drill holders - Weldon type shank





• Drilling depth: 3xdiameter



Designation	Dimension (mm)						
	DC	DCONWS	DCONMS	DF	LU	LF	LS
MDB D26/27-081-32T2-C26-3	26-27	10.4	32	40	60	94.3	60
D28/29-087-32T2-C28-3	28-29	11.2	32	40	64	100.5	60
D30/31-093-32T2-C30-3	30-31	12.0	32	40	69	105.5	60
D32/33-099-32T2-C32-3	32-33	12.8	32	40	73	111.7	60
D34/35-105-40T2-C34-3	34-35	13.6	40	50	78	120.2	68
D36/37-111-40T2-C36-3	36-37	14.4	40	50	82	126.5	68
D38/39-117-40T2-C38-3	38-39	15.2	40	50	86	131.4	68
D40/41-123-40T2-C40-3	40-41	16.0	40	50	91	137.6	68
D42/43-129-40T2-C42-3	42-43	16.8	40	50	95	143.8	68
D44/45-135-40T2-C44-3	44-45	17.6	40	50	99	150.0	68
D46/47-141-50T2-C46-3	46-47	18.4	50	60	104	154.5	80
D48/50-150-50T2-C48-3	48-50	19.2	50	60	111	160.9	80

• DC : Cutting diameter range
• DCONWS : Modular head connection size

Spare parts

Designation	Wrench	Wrench handle		
				
MDB D26/27-D34/35-3	BLD H-W2.5x210	SW6-T-SH		
MDB D36/37-D42/43-3	BLD H-W3.0x225	SW6-T-SH		
MDB D44/45-D48/50-3	BLD H-W4.0x255	SW6-T-SH		

• Wrench: Disassemble the modular head from the modular body (Insert from the rear shank)

D62 Cutting Condition D206 Technical Data D248

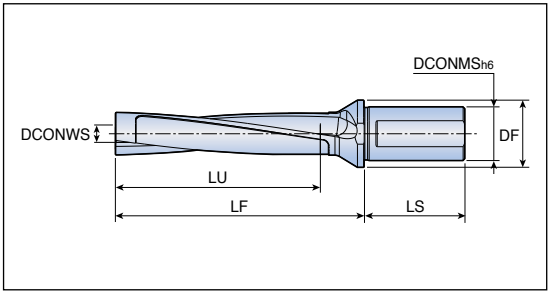
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MDB...T2-5

MODURDRILL

Modular drill holders - Weldon type shank





• Drilling depth: 5xdiameter



Designation		Dimension (mm)						
		DC	DCONWS	DCONMS	DF	LU	LF	LS
MDB	D26/27-135-32T2-C26-5	26-27	10.4	32	40	114	148.3	60
	D28/29-145-32T2-C28-5	28-29	11.2	32	40	122	158.5	60
	D30/31-155-32T2-C30-5	30-31	12.0	32	40	131	167.5	60
	D32/33-165-32T2-C32-5	32-33	12.8	32	40	139	177.7	60
	D34/35-175-40T2-C34-5	34-35	13.6	40	50	148	190.2	68
	D36/37-185-40T2-C36-5	36-37	14.4	40	50	156	200.5	68
	D38/39-195-40T2-C38-5	38-39	15.2	40	50	164	209.4	68
	D40/41-205-40T2-C40-5	40-41	16.0	40	50	173	219.6	68
	D42/43-215-40T2-C42-5	42-43	16.8	40	50	181	229.8	68
	D44/45-225-40T2-C44-5	44-45	17.6	40	50	189	240.0	68
	D46/47-235-50T2-C46-5	46-47	18.4	50	60	198	248.5	80
	D48/50-250-50T2-C48-5	48-50	19.2	50	60	211	258.9	80

• DC : Cutting diameter range
• DCONWS : Modular head connection size

Spare parts

Designation	Wrench	Wrench handle		
				
MDB D26/27-D34/35-5	BLD H-W2.5x280	SW6-T-SH		
MDB D36/37-D42/43-5	BLD H-W3.0x310	SW6-T-SH		
MDB D44/45-D48/50-5	BLD H-W4.0x350	SW6-T-SH		

• Wrench: Disassemble the modular head from the modular body (Insert from the rear shank)





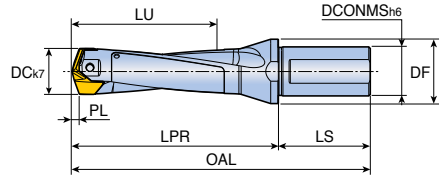


LCD...T2-3D

SPADERUSH

Head changeable drill holders - Weldon type shank





• Drilling depth: 3xdiameter

Designation	Dimension (mm)							
	DC	DCONMS	DF	LU	LPR	LS	PL	SSC
LCD 200-209-25T2-3D	20.0-20.9	25	32	63	92.1	56	3.11	20
210-219-25T2-3D	21.0-21.9	25	32	66	95.3	56	3.29	21
220-229-25T2-3D	22.0-22.9	25	32	69	98.4	56	3.42	22
230-239-25T2-3D	23.0-23.9	25	32	73	101.6	56	3.60	23
240-249-32T2-3D	24.0-24.9	32	40	76	110.7	60	3.73	24
250-259-32T2-3D	25.0-25.9	32	40	79	113.9	60	3.91	25
260-269-32T2-3D	26.0-26.9	32	40	82	117.0	60	4.04	26
270-279-32T2-3D	27.0-27.9	32	40	85	120.2	60	4.22	27
280-289-32T2-3D	28.0-28.9	32	40	88	128.4	60	4.35	28
290-299-32T2-3D	29.0-29.9	32	40	92	131.5	60	4.53	29
300-309-32T2-3D	30.0-30.9	32	42	95	134.7	60	4.67	30
310-319-32T2-3D	31.0-31.9	32	42	98	137.9	60	4.85	31
320-329-40T2-3D	32.0-32.9	40	48	101	143.0	68	4.98	32
330-339-40T2-3D	33.0-33.9	40	48	104	146.2	68	5.16	33
340-349-40T2-3D	34.0-34.9	40	48	107	149.3	68	5.34	34
350-359-40T2-3D	35.0-35.9	40	48	110	152.4	68	5.44	35
360-369-40T2-3D	36.0-36.9	40	48	114	155.6	68	5.62	36
370-379-40T2-3D	37.0-37.9	40	48	117	158.8	68	5.80	37
380-389-40T2-3D	38.0-38.9	40	50	120	166.9	68	5.91	38
390-399-40T2-3D	39.0-39.9	40	50	123	170.1	68	6.09	39
400-410-40T2-3D	40.0-41.0	40	50	126	173.3	68	6.27	40

• OAL = LPR+LS • SSC: Seat size code

Spare parts

Designation	Screw	Wrench	Wrench handle	
LCD 200-219-3D	TS 40178D25	BLD T20/S7	SW6-T-SH	
LCD 220-239-3D	TS 40198D28	BLD T20/S7	SW6-T-SH	
LCD 240-259-3D	TS 40210D3	BLD T20/S7	SW6-T-SH	
LCD 260-279-3D	TS 50230D3	BLD T20/S7	SW6-T-SH	
LCD 280-299-3D	TS 50250D35	BLD T25/S7	SW6-T-SH	
LCD 300-319-3D	TS 60265D4	BLD T25/S7	SW6-T-SH	
LCD 320-349-3D	TS 60285D42	BLD T25/S7	SW6-T-SH	
LCD 350-379-3D	TS 60320D5	BLD T25/S7	SW6-T-SH	
LCD 380-410-3D	TS 80340D6	BLD T25/S7	SW6-T-SH	

D174 Cutting Condition D208

LCD...T2-5D

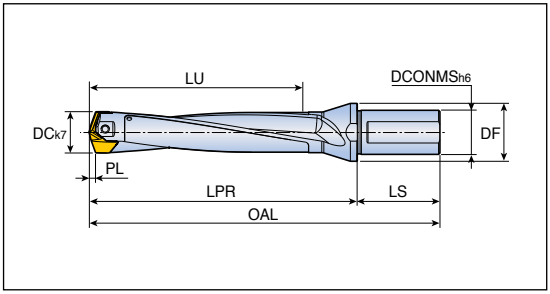
SPADERUSH

Head changeable drill holders - Weldon type shank



• Drilling depth: 5xdiameter





Designation	Dimension (mm)							
	DC	DCONMS	DF	LU	LPR	LS	PL	SSC
LCD 200-209-25T2-5D	20.0-20.9	25	32	103	132.1	56	3.11	20
210-219-25T2-5D	21.0-21.9	25	32	108	137.3	56	3.29	21
220-229-25T2-5D	22.0-22.9	25	32	113	142.4	56	3.42	22
230-239-25T2-5D	23.0-23.9	25	32	119	147.6	56	3.60	23
240-249-32T2-5D	24.0-24.9	32	40	124	158.7	60	3.73	24
250-259-32T2-5D	25.0-25.9	32	40	129	163.9	60	3.91	25
260-269-32T2-5D	26.0-26.9	32	40	134	169.0	60	4.04	26
270-279-32T2-5D	27.0-27.9	32	40	139	174.2	60	4.22	27
280-289-32T2-5D	28.0-28.9	32	40	144	184.4	60	4.35	28
290-299-32T2-5D	29.0-29.9	32	40	150	189.5	60	4.53	29
300-309-32T2-5D	30.0-30.9	32	42	155	194.7	60	4.67	30
310-319-32T2-5D	31.0-31.9	32	42	160	199.9	60	4.85	31
320-329-40T2-5D	32.0-32.9	40	48	165	207.0	68	4.98	32
330-339-40T2-5D	33.0-33.9	40	48	170	212.2	68	5.16	33
340-349-40T2-5D	34.0-34.9	40	48	175	217.3	68	5.34	34
350-359-40T2-5D	35.0-35.9	40	48	180	222.4	68	5.44	35
360-369-40T2-5D	36.0-36.9	40	48	186	227.6	68	5.62	36
370-379-40T2-5D	37.0-37.9	40	48	191	232.8	68	5.80	37
380-389-40T2-5D	38.0-38.9	40	50	196	242.9	68	5.91	38
390-399-40T2-5D	39.0-39.9	40	50	201	248.1	68	6.09	39
400-410-40T2-5D	40.0-41.0	40	50	206	253.3	68	6.27	40

• OAL = LPR+LS • SSC: Seat size code

Spare parts

Designation	Screw	Wrench	Wrench handle	
				
LCD 200-219-5D	TS 40178D25	BLD T20/S7	SW6-T-SH	
LCD 220-239-5D	TS 40198D28	BLD T20/S7	SW6-T-SH	
LCD 240-259-5D	TS 40210D3	BLD T20/S7	SW6-T-SH	
LCD 260-279-5D	TS 50230D3	BLD T20/S7	SW6-T-SH	
LCD 280-299-5D	TS 50250D35	BLD T25/S7	SW6-T-SH	
LCD 300-319-5D	TS 60265D4	BLD T25/S7	SW6-T-SH	
LCD 320-349-5D	TS 60285D42	BLD T25/S7	SW6-T-SH	
LCD 350-379-5D	TS 60320D5	BLD T25/S7	SW6-T-SH	
LCD 380-410-5D	TS 80340D6	BLD T25/S7	SW6-T-SH	



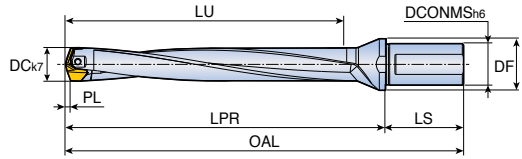
TaeguTec

LCD...T2-8D

SPADERUSH

Head changeable drill holders - Weldon type shank





• Drilling depth: 8xdiameter

Designation	Dimension (mm)							
	DC	DCONMS	DF	LU	LPR	LS	PL	SSC
LCD 200-209-25T2-8D	20.0-20.9	25	32	163.1	192.1	56	3.11	20
210-219-25T2-8D	21.0-21.9	25	32	171.3	200.1	56	3.29	21
220-229-25T2-8D	22.0-22.9	25	32	179.4	208.4	56	3.42	22
230-239-25T2-8D	23.0-23.9	25	32	187.6	216.4	56	3.60	23
240-249-32T2-8D	24.0-24.9	32	40	195.7	230.7	60	3.73	24
250-259-32T2-8D	25.0-25.9	32	40	203.9	238.7	60	3.91	25
260-269-32T2-8D	26.0-26.9	32	40	212.0	247.0	60	4.04	26
270-279-32T2-8D	27.0-27.9	32	40	220.2	255.0	60	4.22	27
280-289-32T2-8D	28.0-28.9	32	40	228.4	268.4	60	4.35	28
290-299-32T2-8D	29.0-29.9	32	40	236.5	276.4	60	4.53	29
300-309-32T2-8D	30.0-30.9	32	42	244.7	284.7	60	4.67	30
310-319-32T2-8D	31.0-31.9	32	42	252.9	292.7	60	4.85	31
320-329-40T2-8D	32.0-32.9	40	48	261.0	303.0	68	4.98	32
330-339-40T2-8D	33.0-33.9	40	48	269.2	311.0	68	5.16	33
340-349-40T2-8D	34.0-34.9	40	48	277.3	319.0	68	5.34	34
350-359-40T2-8D	35.0-35.9	40	48	285.4	327.4	68	5.44	35
360-369-40T2-8D	36.0-36.9	40	48	293.6	335.4	68	5.62	36
370-379-40T2-8D	37.0-37.9	40	48	301.8	343.4	68	5.80	37
380-389-40T2-8D	38.0-38.9	40	50	309.9	356.9	68	5.91	38
390-399-40T2-8D	39.0-39.9	40	50	318.1	364.9	68	6.09	39
400-410-40T2-8D	40.0-41.0	40	50	326.3	372.9	68	6.27	40

• OAL = LPR+LS • SSC: Seat size code • It is recommended to make the pilot hole with a 3D holder

Spare parts

Designation	Screw	Wrench	Wrench handle	
LCD 200-219-8D	TS 40178D25	BLD T20/S7	SW6-T-SH	
LCD 220-239-8D	TS 40198D28	BLD T20/S7	SW6-T-SH	
LCD 240-259-8D	TS 40210D3	BLD T20/S7	SW6-T-SH	
LCD 260-279-8D	TS 50230D3	BLD T20/S7	SW6-T-SH	
LCD 280-299-8D	TS 50250D35	BLD T25/S7	SW6-T-SH	
LCD 300-319-8D	TS 60265D4	BLD T25/S7	SW6-T-SH	
LCD 320-349-8D	TS 60285D42	BLD T25/S7	SW6-T-SH	
LCD 350-379-8D	TS 60320D5	BLD T25/S7	SW6-T-SH	
LCD 380-410-8D	TS 80340D6	BLD T25/S7	SW6-T-SH	

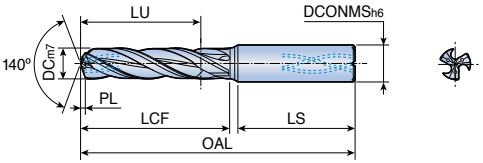
D174 Cutting Condition D208

3HD...PI3

SOLID3DRILL

3 flute solid carbide drills with oil holes





• Drilling depth: 3xdiameter

Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	LS	PL	TT5130
3HD 040-017-06 PI3	4.0	6.0	66	17	25	35	0.82	●
045-017-06 PI3	4.5	6.0	66	17	25	35	0.88	●
050-020-06 PI3	5.0	6.0	66	20	29	36	0.96	●
051-020-06 PI3	5.1	6.0	66	20	29	36	0.98	●
055-020-06 PI3	5.5	6.0	66	20	29	36	1.08	●
060-020-06 PI3	6.0	6.0	66	20	29	36	1.17	●
065-024-08 PI3	6.5	8.0	79	24	35	36	1.26	●
068-024-08 PI3	6.8	8.0	79	24	35	36	1.31	●
070-024-08 PI3	7.0	8.0	79	24	35	36	1.35	●
075-029-08 PI3	7.5	8.0	79	29	42	36	1.40	●
080-029-08 PI3	8.0	8.0	79	29	42	36	1.49	●
085-035-10 PI3	8.5	10.0	89	35	48	40	1.63	●
086-035-10 PI3	8.6	10.0	89	35	48	40	1.65	●
090-035-10 PI3	9.0	10.0	89	35	48	40	1.72	●
095-035-10 PI3	9.5	10.0	89	35	48	40	1.75	●
100-035-10 PI3	10.0	10.0	89	35	48	40	1.85	●
103-040-12 PI3	10.3	12.0	102	40	55	45	1.94	●
105-040-12 PI3	10.5	12.0	102	40	55	45	1.98	●
110-040-12 PI3	11.0	12.0	102	40	55	45	2.07	●
115-040-12 PI3	11.5	12.0	102	40	56	45	2.12	●
120-040-12 PI3	12.0	12.0	102	40	56	45	2.21	●

Cutting Condition D210

●: Standard items

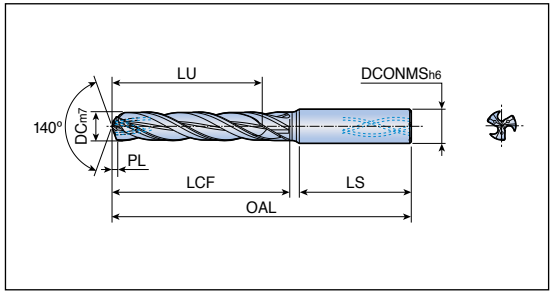
TaeguTec

3HD...PI5

SOLID3DRILL

3 flute solid carbide drills with oil holes





• Drilling depth: 5xdiameter

Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	LS	PL	TT5130
3HD 040-029-06 PI5	4.0	6.0	74	29	37	35	0.82	●
045-029-06 PI5	4.5	6.0	74	29	37	35	0.88	●
050-035-06 PI5	5.0	6.0	82	35	45	36	0.96	●
051-035-06 PI5	5.1	6.0	82	35	45	36	0.98	●
055-035-06 PI5	5.5	6.0	82	35	45	36	1.08	●
060-035-06 PI5	6.0	6.0	82	35	45	36	1.17	●
065-043-08 PI5	6.5	8.0	91	43	54	36	1.26	●
068-043-08 PI5	6.8	8.0	91	43	54	36	1.31	●
070-043-08 PI5	7.0	8.0	91	43	54	36	1.35	●
075-043-08 PI5	7.5	8.0	91	43	54	36	1.40	●
080-043-08 PI5	8.0	8.0	91	43	54	36	1.49	●
085-049-10 PI5	8.5	10.0	103	49	62	40	1.63	●
086-049-10 PI5	8.6	10.0	103	49	62	40	1.65	●
090-049-10 PI5	9.0	10.0	103	49	62	40	1.72	●
095-049-10 PI5	9.5	10.0	103	49	62	40	1.75	●
100-049-10 PI5	10.0	10.0	103	49	62	40	1.85	●
103-056-12 PI5	10.3	12.0	118	56	71	45	1.94	●
105-056-12 PI5	10.5	12.0	118	56	71	45	1.98	●
110-056-12 PI5	11.0	12.0	118	56	71	45	2.07	●
115-056-12 PI5	11.5	12.0	118	56	72	45	2.12	●
120-056-12 PI5	12.0	12.0	118	56	72	45	2.21	●

Cutting Condition D210

●: Standard items

ADVANCE MACHINING TaeguTec Industry 4.0

NHD...PE3

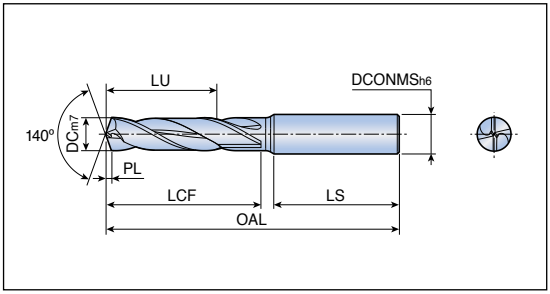
HDRILL

Solid carbide drills without oil holes



• Drilling depth: 3xdiameter





Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	LS	PL	TT9030
NHD 030-014-06 PE3	3.0	6.0	62	14	21	34	0.5	●
031-014-06 PE3	3.1	6.0	62	14	21	34	0.5	●
032-014-06 PE3	3.2	6.0	62	14	21	34	0.5	●
033-014-06 PE3	3.3	6.0	62	14	21	34	0.5	●
034-014-06 PE3	3.4	6.0	62	14	21	34	0.5	●
035-014-06 PE3	3.5	6.0	62	14	21	34	0.6	●
036-014-06 PE3	3.6	6.0	62	14	21	34	0.6	●
037-014-06 PE3	3.7	6.0	62	14	21	34	0.6	●
038-017-06 PE3	3.8	6.0	66	17	25	35	0.6	●
039-017-06 PE3	3.9	6.0	66	17	25	35	0.6	●
040-017-06 PE3	4.0	6.0	66	17	25	35	0.6	●
041-017-06 PE3	4.1	6.0	66	17	25	35	0.7	●
042-017-06 PE3	4.2	6.0	66	17	25	35	0.7	●
043-017-06 PE3	4.3	6.0	66	17	25	35	0.7	●
044-017-06 PE3	4.4	6.0	66	17	25	35	0.7	●
045-017-06 PE3	4.5	6.0	66	17	25	35	0.7	●
046-017-06 PE3	4.6	6.0	66	17	25	35	0.7	●
047-017-06 PE3	4.7	6.0	66	17	25	35	0.8	●
048-020-06 PE3	4.8	6.0	66	20	29	36	0.8	●
049-020-06 PE3	4.9	6.0	66	20	29	36	0.8	●
050-020-06 PE3	5.0	6.0	66	20	29	36	0.8	●
051-020-06 PE3	5.1	6.0	66	20	29	36	0.8	●
052-020-06 PE3	5.2	6.0	66	20	29	36	0.8	●
053-020-06 PE3	5.3	6.0	66	20	29	36	0.8	●
054-020-06 PE3	5.4	6.0	66	20	29	36	0.8	●
055-020-06 PE3	5.5	6.0	66	20	29	36	0.9	●
056-020-06 PE3	5.6	6.0	66	20	29	36	0.9	●
057-020-06 PE3	5.7	6.0	66	20	29	36	0.9	●
058-020-06 PE3	5.8	6.0	66	20	29	36	0.9	●
059-020-06 PE3	5.9	6.0	66	20	29	36	0.9	●
060-020-06 PE3	6.0	6.0	66	20	29	36	0.9	●
061-024-08 PE3	6.1	8.0	79	24	35	36	1.0	●
062-024-08 PE3	6.2	8.0	79	24	35	36	1.0	●
063-024-08 PE3	6.3	8.0	79	24	35	36	1.0	●
064-024-08 PE3	6.4	8.0	79	24	35	36	1.0	●

Cutting Condition D212

●: Standard items

TaeguTec

NHD...PE3

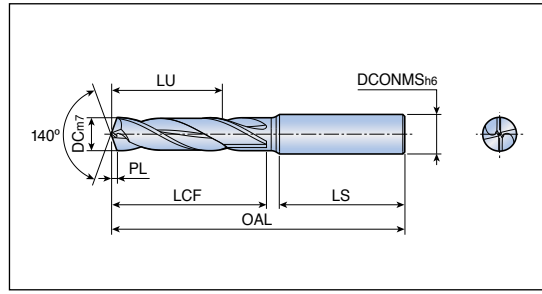
HDRILL

Solid carbide drills without oil holes



• Drilling depth: 3xdiameter





Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	LS	PL	TT9030
NHD 065-024-08 PE3	6.5	8.0	79	24	35	36	1.0	●
066-024-08 PE3	6.6	8.0	79	24	35	36	1.0	●
067-024-08 PE3	6.7	8.0	79	24	35	36	1.1	●
068-024-08 PE3	6.8	8.0	79	24	35	36	1.1	●
069-024-08 PE3	6.9	8.0	79	24	35	36	1.1	●
070-024-08 PE3	7.0	8.0	79	24	35	36	1.1	●
071-029-08 PE3	7.1	8.0	79	29	42	36	1.1	●
072-029-08 PE3	7.2	8.0	79	29	42	36	1.1	●
073-029-08 PE3	7.3	8.0	79	29	42	36	1.1	●
074-029-08 PE3	7.4	8.0	79	29	42	36	1.2	●
075-029-08 PE3	7.5	8.0	79	29	42	36	1.2	●
076-029-08 PE3	7.6	8.0	79	29	42	36	1.2	●
077-029-08 PE3	7.7	8.0	79	29	42	36	1.2	●
078-029-08 PE3	7.8	8.0	79	29	42	36	1.2	●
079-029-08 PE3	7.9	8.0	79	29	42	36	1.3	●
080-029-08 PE3	8.0	8.0	79	29	42	36	1.3	●
081-035-10 PE3	8.1	10.0	89	35	48	40	1.3	●
082-035-10 PE3	8.2	10.0	89	35	48	40	1.3	●
083-035-10 PE3	8.3	10.0	89	35	48	40	1.3	●
084-035-10 PE3	8.4	10.0	89	35	48	40	1.3	●
085-035-10 PE3	8.5	10.0	89	35	48	40	1.3	●
086-035-10 PE3	8.6	10.0	89	35	48	40	1.4	●
087-035-10 PE3	8.7	10.0	89	35	48	40	1.4	●
088-035-10 PE3	8.8	10.0	89	35	48	40	1.4	●
089-035-10 PE3	8.9	10.0	89	35	48	40	1.4	●
090-035-10 PE3	9.0	10.0	89	35	48	40	1.4	●
091-035-10 PE3	9.1	10.0	89	35	48	40	1.4	●
092-035-10 PE3	9.2	10.0	89	35	48	40	1.4	●
093-035-10 PE3	9.3	10.0	89	35	48	40	1.5	●
094-035-10 PE3	9.4	10.0	89	35	48	40	1.5	●
095-035-10 PE3	9.5	10.0	89	35	48	40	1.5	●
096-035-10 PE3	9.6	10.0	89	35	48	40	1.5	●
097-035-10 PE3	9.7	10.0	89	35	48	40	1.5	●
098-035-10 PE3	9.8	10.0	89	35	48	40	1.6	●
099-035-10 PE3	9.9	10.0	89	35	48	40	1.6	●

●: Standard items

Cutting Condition
D212

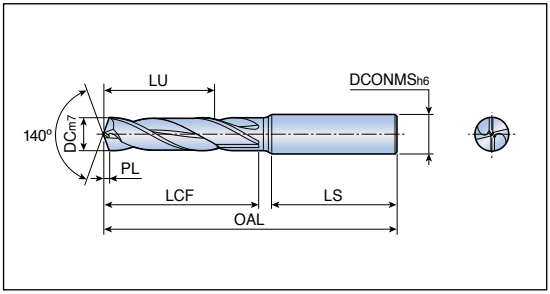
NHD...PE3

Solid carbide drills without oil holes



• Drilling depth: 3xdiameter





Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	LS	PL	TT9030
NHD 100-035-10 PE3	10.0	10.0	89	35	48	40	1.6	●
101-040-12 PE3	10.1	12.0	101	40	54	45	1.6	●
102-040-12 PE3	10.2	12.0	101	40	54	45	1.6	●
103-040-12 PE3	10.3	12.0	101	40	54	45	1.6	●
104-040-12 PE3	10.4	12.0	101	40	54	45	1.6	●
105-040-12 PE3	10.5	12.0	101	40	54	45	1.6	●
106-040-12 PE3	10.6	12.0	101	40	54	45	1.7	●
107-040-12 PE3	10.7	12.0	101	40	54	45	1.7	●
108-040-12 PE3	10.8	12.0	101	40	54	45	1.7	●
109-040-12 PE3	10.9	12.0	101	40	54	45	1.7	●
110-040-12 PE3	11.0	12.0	101	40	54	45	1.7	●
111-040-12 PE3	11.1	12.0	101	40	55	45	1.7	●
112-040-12 PE3	11.2	12.0	101	40	55	45	1.8	●
113-040-12 PE3	11.3	12.0	101	40	55	45	1.8	●
114-040-12 PE3	11.4	12.0	101	40	55	45	1.8	●
115-040-12 PE3	11.5	12.0	101	40	55	45	1.8	●
116-040-12 PE3	11.6	12.0	101	40	55	45	1.8	●
117-040-12 PE3	11.7	12.0	101	40	55	45	1.9	●
118-040-12 PE3	11.8	12.0	101	40	55	45	1.9	●
119-040-12 PE3	11.9	12.0	101	40	55	45	1.9	●
120-040-12 PE3	12.0	12.0	101	40	55	45	1.9	●

Cutting Condition D212

●: Standard items

TaeguTec Member IMC Group

NHD...PE5

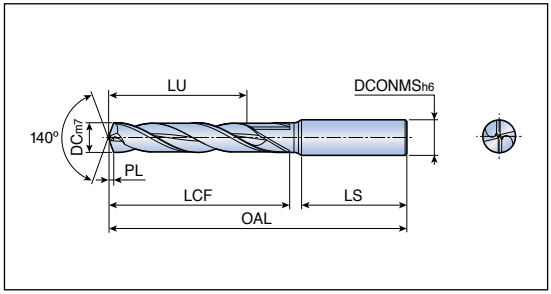
HDRILL

Solid carbide drills without oil holes



• Drilling depth: 4-5xdiameter





Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	LS	PL	TT9030
NHD 030-023-06 PE5	3.0	6.0	66	23	29	34	0.5	●
031-023-06 PE5	3.1	6.0	66	23	29	34	0.5	●
032-023-06 PE5	3.2	6.0	66	23	29	34	0.5	●
033-023-06 PE5	3.3	6.0	66	23	29	34	0.5	●
034-023-06 PE5	3.4	6.0	66	23	29	34	0.5	●
035-023-06 PE5	3.5	6.0	66	23	29	34	0.6	●
036-023-06 PE5	3.6	6.0	66	23	29	34	0.6	●
037-023-06 PE5	3.7	6.0	66	23	29	34	0.6	●
038-029-06 PE5	3.8	6.0	74	29	37	35	0.6	●
039-029-06 PE5	3.9	6.0	74	29	37	35	0.6	●
040-029-06 PE5	4.0	6.0	74	29	37	35	0.6	●
041-029-06 PE5	4.1	6.0	74	29	37	35	0.7	●
042-029-06 PE5	4.2	6.0	74	29	37	35	0.7	●
043-029-06 PE5	4.3	6.0	74	29	37	35	0.7	●
044-029-06 PE5	4.4	6.0	74	29	37	35	0.7	●
045-029-06 PE5	4.5	6.0	74	29	37	35	0.7	●
046-029-06 PE5	4.6	6.0	74	29	37	35	0.7	●
047-029-06 PE5	4.7	6.0	74	29	37	35	0.8	●
048-035-06 PE5	4.8	6.0	82	35	45	36	0.8	●
049-035-06 PE5	4.9	6.0	82	35	45	36	0.8	●
050-035-06 PE5	5.0	6.0	82	35	45	36	0.8	●
051-035-06 PE5	5.1	6.0	82	35	45	36	0.8	●
052-035-06 PE5	5.2	6.0	82	35	45	36	0.8	●
053-035-06 PE5	5.3	6.0	82	35	45	36	0.8	●
054-035-06 PE5	5.4	6.0	82	35	45	36	0.8	●
055-035-06 PE5	5.5	6.0	82	35	45	36	0.9	●
056-035-06 PE5	5.6	6.0	82	35	45	36	0.9	●
057-035-06 PE5	5.7	6.0	82	35	45	36	0.9	●
058-035-06 PE5	5.8	6.0	82	35	45	36	0.9	●
059-035-06 PE5	5.9	6.0	82	35	45	36	0.9	●
060-035-06 PE5	6.0	6.0	82	35	45	36	0.9	●
061-043-08 PE5	6.1	8.0	91	43	54	36	1.0	●
062-043-08 PE5	6.2	8.0	91	43	54	36	1.0	●
063-043-08 PE5	6.3	8.0	91	43	54	36	1.0	●
064-043-08 PE5	6.4	8.0	91	43	54	36	1.0	●

●: Standard items

Cutting Condition
D212

ADVANCE MACHINING
TaeguTec Industry 4.0

NHD...PE5

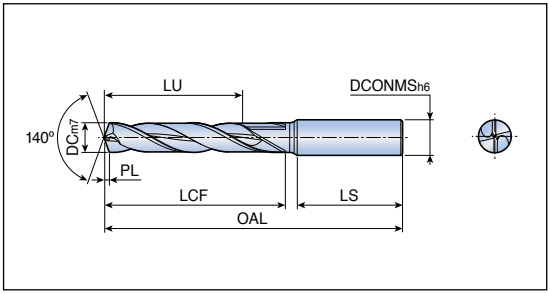
HDRILL

Solid carbide drills without oil holes



• Drilling depth: 4-5xdiameter





Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	LS	PL	TT9030
NHD 065-043-08 PE5	6.5	8.0	91	43	54	36	1.0	●
066-043-08 PE5	6.6	8.0	91	43	54	36	1.0	●
067-043-08 PE5	6.7	8.0	91	43	54	36	1.1	●
068-043-08 PE5	6.8	8.0	91	43	54	36	1.1	●
069-043-08 PE5	6.9	8.0	91	43	54	36	1.1	●
070-043-08 PE5	7.0	8.0	91	43	54	36	1.1	●
071-043-08 PE5	7.1	8.0	91	43	54	36	1.1	●
072-043-08 PE5	7.2	8.0	91	43	54	36	1.1	●
073-043-08 PE5	7.3	8.0	91	43	54	36	1.1	●
074-043-08 PE5	7.4	8.0	91	43	54	36	1.2	●
075-043-08 PE5	7.5	8.0	91	43	54	36	1.2	●
076-043-08 PE5	7.6	8.0	91	43	54	36	1.2	●
077-043-08 PE5	7.7	8.0	91	43	54	36	1.2	●
078-043-08 PE5	7.8	8.0	91	43	54	36	1.2	●
079-043-08 PE5	7.9	8.0	91	43	54	36	1.3	●
080-043-08 PE5	8.0	8.0	91	43	54	36	1.3	●
081-049-10 PE5	8.1	10.0	103	49	62	40	1.3	●
082-049-10 PE5	8.2	10.0	103	49	62	40	1.3	●
083-049-10 PE5	8.3	10.0	103	49	62	40	1.3	●
084-049-10 PE5	8.4	10.0	103	49	62	40	1.3	●
085-049-10 PE5	8.5	10.0	103	49	62	40	1.3	●
086-049-10 PE5	8.6	10.0	103	49	62	40	1.4	●
087-049-10 PE5	8.7	10.0	103	49	62	40	1.4	●
088-049-10 PE5	8.8	10.0	103	49	62	40	1.4	●
089-049-10 PE5	8.9	10.0	103	49	62	40	1.4	●
090-049-10 PE5	9.0	10.0	103	49	62	40	1.4	●
091-049-10 PE5	9.1	10.0	103	49	62	40	1.4	●
092-049-10 PE5	9.2	10.0	103	49	62	40	1.4	●
093-049-10 PE5	9.3	10.0	103	49	62	40	1.5	●
094-049-10 PE5	9.4	10.0	103	49	62	40	1.5	●
095-049-10 PE5	9.5	10.0	103	49	62	40	1.5	●
096-049-10 PE5	9.6	10.0	103	49	62	40	1.5	●
097-049-10 PE5	9.7	10.0	103	49	62	40	1.5	●
098-049-10 PE5	9.8	10.0	103	49	62	40	1.6	●
099-049-10 PE5	9.9	10.0	103	49	62	40	1.6	●

Cutting Condition D212

●: Standard items

NHD...PE5

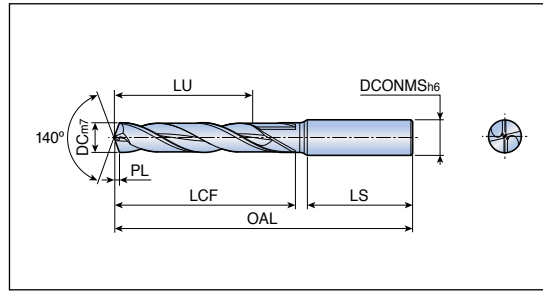
HDRILL

Solid carbide drills without oil holes



• Drilling depth: 4-5xdiameter





Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	PL	LS	TT9030
NHD 100-049-10 PE5	10.0	10.0	103	49	62	1.6	40	●
101-056-12 PE5	10.1	12.0	118	56	71	1.6	45	●
102-056-12 PE5	10.2	12.0	118	56	71	1.6	45	●
103-056-12 PE5	10.3	12.0	118	56	71	1.6	45	●
104-056-12 PE5	10.4	12.0	118	56	71	1.6	45	●
105-056-12 PE5	10.5	12.0	118	56	71	1.6	45	●
106-056-12 PE5	10.6	12.0	118	56	71	1.7	45	●
107-056-12 PE5	10.7	12.0	118	56	71	1.7	45	●
108-056-12 PE5	10.8	12.0	118	56	71	1.7	45	●
109-056-12 PE5	10.9	12.0	118	56	71	1.7	45	●
110-056-12 PE5	11.0	12.0	118	56	71	1.7	45	●
111-056-12 PE5	11.1	12.0	118	56	72	1.7	45	●
112-056-12 PE5	11.2	12.0	118	56	72	1.8	45	●
113-056-12 PE5	11.3	12.0	118	56	72	1.8	45	●
114-056-12 PE5	11.4	12.0	118	56	72	1.8	45	●
115-056-12 PE5	11.5	12.0	118	56	72	1.8	45	●
116-056-12 PE5	11.6	12.0	118	56	72	1.8	45	●
117-056-12 PE5	11.7	12.0	118	56	72	1.9	45	●
118-056-12 PE5	11.8	12.0	118	56	72	1.9	45	●
119-056-12 PE5	11.9	12.0	118	56	72	1.9	45	●
120-056-12 PE5	12.0	12.0	118	56	72	1.9	45	●

●: Standard items

Cutting Condition D212

ADVANCE MACHINING TaeguTec Industry 4.0

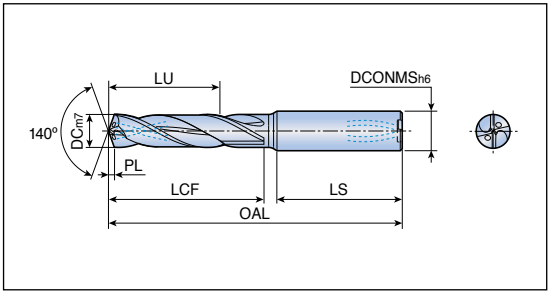
NHD...PI3

HDRILL

Solid carbide drills with oil holes



• Drilling depth: 3xdiameter



Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	LS	PL	TT9030
NHD 030-014-06 PI3	3.0	6.0	62	14	21	34	0.5	●
031-014-06 PI3	3.1	6.0	62	14	21	34	0.5	●
032-014-06 PI3	3.2	6.0	62	14	21	34	0.5	●
033-014-06 PI3	3.3	6.0	62	14	21	34	0.5	●
034-014-06 PI3	3.4	6.0	62	14	21	34	0.5	●
035-014-06 PI3	3.5	6.0	62	14	21	34	0.6	●
036-014-06 PI3	3.6	6.0	62	14	21	34	0.6	●
037-014-06 PI3	3.7	6.0	62	14	21	34	0.6	●
038-017-06 PI3	3.8	6.0	66	17	25	35	0.6	●
039-017-06 PI3	3.9	6.0	66	17	25	35	0.6	●
040-017-06 PI3	4.0	6.0	66	17	25	35	0.6	●
041-017-06 PI3	4.1	6.0	66	17	25	35	0.7	●
042-017-06 PI3	4.2	6.0	66	17	25	35	0.7	●
043-017-06 PI3	4.3	6.0	66	17	25	35	0.7	●
044-017-06 PI3	4.4	6.0	66	17	25	35	0.7	●
045-017-06 PI3	4.5	6.0	66	17	25	35	0.7	●
046-017-06 PI3	4.6	6.0	66	17	25	35	0.7	●
047-017-06 PI3	4.7	6.0	66	17	25	35	0.8	●
048-020-06 PI3	4.8	6.0	66	20	29	36	0.8	●
049-020-06 PI3	4.9	6.0	66	20	29	36	0.8	●
050-020-06 PI3	5.0	6.0	66	20	29	36	0.8	●
051-020-06 PI3	5.1	6.0	66	20	29	36	0.8	●
052-020-06 PI3	5.2	6.0	66	20	29	36	0.8	●
053-020-06 PI3	5.3	6.0	66	20	29	36	0.8	●
054-020-06 PI3	5.4	6.0	66	20	29	36	0.8	●
055-020-06 PI3	5.5	6.0	66	20	29	36	0.9	●
056-020-06 PI3	5.6	6.0	66	20	29	36	0.9	●
057-020-06 PI3	5.7	6.0	66	20	29	36	0.9	●
058-020-06 PI3	5.8	6.0	66	20	29	36	0.9	●
059-020-06 PI3	5.9	6.0	66	20	29	36	0.9	●
060-020-06 PI3	6.0	6.0	66	20	29	36	0.9	●
061-024-08 PI3	6.1	8.0	79	24	35	36	1.0	●
062-024-08 PI3	6.2	8.0	79	24	35	36	1.0	●
063-024-08 PI3	6.3	8.0	79	24	35	36	1.0	●
064-024-08 PI3	6.4	8.0	79	24	35	36	1.0	●

Cutting Condition D212

●: Standard items

TaeguTec

NHD...PI3

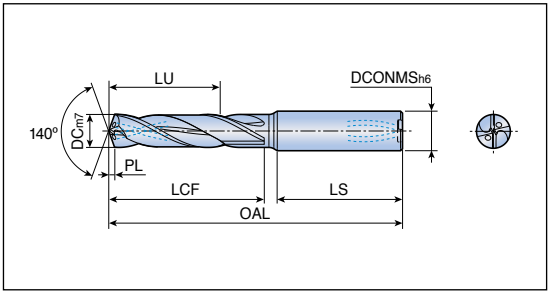
HDRILL

Solid carbide drills with oil holes



• Drilling depth: 3xdiameter





Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	LS	PL	TT9030
NHD 065-024-08 PI3	6.5	8.0	79	24	35	36	1.0	●
066-024-08 PI3	6.6	8.0	79	24	35	36	1.0	●
067-024-08 PI3	6.7	8.0	79	24	35	36	1.1	●
068-024-08 PI3	6.8	8.0	79	24	35	36	1.1	●
069-024-08 PI3	6.9	8.0	79	24	35	36	1.1	●
070-024-08 PI3	7.0	8.0	79	24	35	36	1.1	●
071-029-08 PI3	7.1	8.0	79	29	42	36	1.1	●
072-029-08 PI3	7.2	8.0	79	29	42	36	1.1	●
073-029-08 PI3	7.3	8.0	79	29	42	36	1.1	●
074-029-08 PI3	7.4	8.0	79	29	42	36	1.2	●
075-029-08 PI3	7.5	8.0	79	29	42	36	1.2	●
076-029-08 PI3	7.6	8.0	79	29	42	36	1.2	●
077-029-08 PI3	7.7	8.0	79	29	42	36	1.2	●
078-029-08 PI3	7.8	8.0	79	29	42	36	1.2	●
079-029-08 PI3	7.9	8.0	79	29	42	36	1.3	●
080-029-08 PI3	8.0	8.0	79	29	42	36	1.3	●
081-035-10 PI3	8.1	10.0	89	35	48	40	1.3	●
082-035-10 PI3	8.2	10.0	89	35	48	40	1.3	●
083-035-10 PI3	8.3	10.0	89	35	48	40	1.3	●
084-035-10 PI3	8.4	10.0	89	35	48	40	1.3	●
085-035-10 PI3	8.5	10.0	89	35	48	40	1.3	●
086-035-10 PI3	8.6	10.0	89	35	48	40	1.4	●
087-035-10 PI3	8.7	10.0	89	35	48	40	1.4	●
088-035-10 PI3	8.8	10.0	89	35	48	40	1.4	●
089-035-10 PI3	8.9	10.0	89	35	48	40	1.4	●
090-035-10 PI3	9.0	10.0	89	35	48	40	1.4	●
091-035-10 PI3	9.1	10.0	89	35	48	40	1.4	●
092-035-10 PI3	9.2	10.0	89	35	48	40	1.4	●
093-035-10 PI3	9.3	10.0	89	35	48	40	1.5	●
094-035-10 PI3	9.4	10.0	89	35	48	40	1.5	●
095-035-10 PI3	9.5	10.0	89	35	48	40	1.5	●
096-035-10 PI3	9.6	10.0	89	35	48	40	1.5	●
097-035-10 PI3	9.7	10.0	89	35	48	40	1.5	●
098-035-10 PI3	9.8	10.0	89	35	48	40	1.6	●
099-035-10 PI3	9.9	10.0	89	35	48	40	1.6	●

●: Standard items

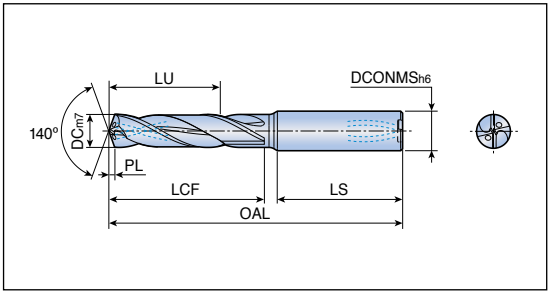
Cutting Condition
D212

NHD...PI3

HDRILL

Solid carbide drills with oil holes





• Drilling depth: 3xdiameter

Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	LS	PL	TT9030
NHD 100-035-10 PI3	10.0	10.0	89	35	48	40	1.6	●
101-040-12 PI3	10.1	12.0	102	40	55	45	1.6	●
102-040-12 PI3	10.2	12.0	102	40	55	45	1.6	●
103-040-12 PI3	10.3	12.0	102	40	55	45	1.6	●
104-040-12 PI3	10.4	12.0	102	40	55	45	1.6	●
105-040-12 PI3	10.5	12.0	102	40	55	45	1.6	●
106-040-12 PI3	10.6	12.0	102	40	55	45	1.7	●
107-040-12 PI3	10.7	12.0	102	40	55	45	1.7	●
108-040-12 PI3	10.8	12.0	102	40	55	45	1.7	●
109-040-12 PI3	10.9	12.0	102	40	55	45	1.7	●
110-040-12 PI3	11.0	12.0	102	40	55	45	1.7	●
111-040-12 PI3	11.1	12.0	102	40	56	45	1.7	●
112-040-12 PI3	11.2	12.0	102	40	56	45	1.8	●
113-040-12 PI3	11.3	12.0	102	40	56	45	1.8	●
114-040-12 PI3	11.4	12.0	102	40	56	45	1.8	●
115-040-12 PI3	11.5	12.0	102	40	56	45	1.8	●
116-040-12 PI3	11.6	12.0	102	40	56	45	1.8	●
117-040-12 PI3	11.7	12.0	102	40	56	45	1.9	●
118-040-12 PI3	11.8	12.0	102	40	56	45	1.9	●
119-040-12 PI3	11.9	12.0	102	40	56	45	1.9	●
120-040-12 PI3	12.0	12.0	102	40	56	45	1.9	●

Cutting Condition D212

●: Standard items

TaeguTec

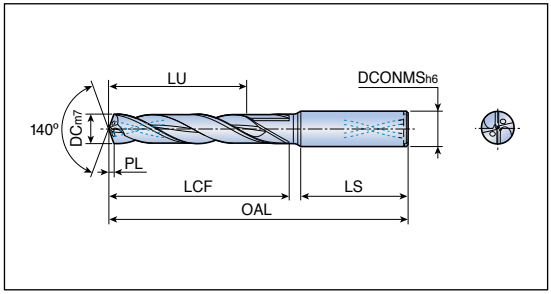
NHD...PI5

HDRILL

Solid carbide drills with oil holes



• Drilling depth: 4-5xdiameter



Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	LS	PL	TT9030
NHD 030-023-06 PI5	3.0	6.0	66	23	29	34	0.5	●
031-023-06 PI5	3.1	6.0	66	23	29	34	0.5	●
032-023-06 PI5	3.2	6.0	66	23	29	34	0.5	●
033-023-06 PI5	3.3	6.0	66	23	29	34	0.5	●
034-023-06 PI5	3.4	6.0	66	23	29	34	0.5	●
035-023-06 PI5	3.5	6.0	66	23	29	34	0.6	●
036-023-06 PI5	3.6	6.0	66	23	29	34	0.6	●
037-023-06 PI5	3.7	6.0	66	23	29	34	0.6	●
038-029-06 PI5	3.8	6.0	74	29	37	35	0.6	●
039-029-06 PI5	3.9	6.0	74	29	37	35	0.6	●
040-029-06 PI5	4.0	6.0	74	29	37	35	0.6	●
041-029-06 PI5	4.1	6.0	74	29	37	35	0.7	●
042-029-06 PI5	4.2	6.0	74	29	37	35	0.7	●
043-029-06 PI5	4.3	6.0	74	29	37	35	0.7	●
044-029-06 PI5	4.4	6.0	74	29	37	35	0.7	●
045-029-06 PI5	4.5	6.0	74	29	37	35	0.7	●
046-029-06 PI5	4.6	6.0	74	29	37	35	0.7	●
047-029-06 PI5	4.7	6.0	74	29	37	35	0.8	●
048-035-06 PI5	4.8	6.0	82	35	45	36	0.8	●
049-035-06 PI5	4.9	6.0	82	35	45	36	0.8	●
050-035-06 PI5	5.0	6.0	82	35	45	36	0.8	●
051-035-06 PI5	5.1	6.0	82	35	45	36	0.8	●
052-035-06 PI5	5.2	6.0	82	35	45	36	0.8	●
053-035-06 PI5	5.3	6.0	82	35	45	36	0.8	●
054-035-06 PI5	5.4	6.0	82	35	45	36	0.8	●
055-035-06 PI5	5.5	6.0	82	35	45	36	0.9	●
056-035-06 PI5	5.6	6.0	82	35	45	36	0.9	●
057-035-06 PI5	5.7	6.0	82	35	45	36	0.9	●
058-035-06 PI5	5.8	6.0	82	35	45	36	0.9	●
059-035-06 PI5	5.9	6.0	82	35	45	36	0.9	●
060-035-06 PI5	6.0	6.0	82	35	45	36	0.9	●
061-043-08 PI5	6.1	8.0	91	43	54	36	1.0	●
062-043-08 PI5	6.2	8.0	91	43	54	36	1.0	●
063-043-08 PI5	6.3	8.0	91	43	54	36	1.0	●
064-043-08 PI5	6.4	8.0	91	43	54	36	1.0	●

●: Standard items

Cutting Condition D212

ADVANCE MACHINING TaeguTec Industry 4.0

NHD...PI5

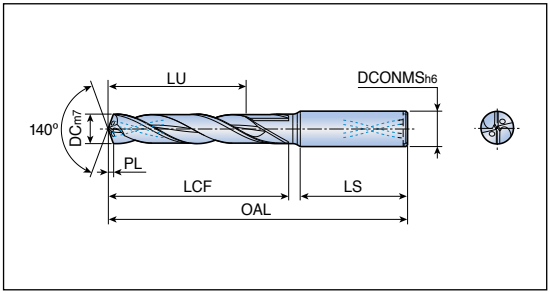
HDRILL

Solid carbide drills with oil holes



• Drilling depth: 4-5xdiameter





Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	LS	PL	TT9030
NHD 065-043-08 PI5	6.5	8.0	91	43	54	36	1.0	●
066-043-08 PI5	6.6	8.0	91	43	54	36	1.0	●
067-043-08 PI5	6.7	8.0	91	43	54	36	1.1	●
068-043-08 PI5	6.8	8.0	91	43	54	36	1.1	●
069-043-08 PI5	6.9	8.0	91	43	54	36	1.1	●
070-043-08 PI5	7.0	8.0	91	43	54	36	1.1	●
071-043-08 PI5	7.1	8.0	91	43	54	36	1.1	●
072-043-08 PI5	7.2	8.0	91	43	54	36	1.1	●
073-043-08 PI5	7.3	8.0	91	43	54	36	1.1	●
074-043-08 PI5	7.4	8.0	91	43	54	36	1.2	●
075-043-08 PI5	7.5	8.0	91	43	54	36	1.2	●
076-043-08 PI5	7.6	8.0	91	43	54	36	1.2	●
077-043-08 PI5	7.7	8.0	91	43	54	36	1.2	●
078-043-08 PI5	7.8	8.0	91	43	54	36	1.2	●
079-043-08 PI5	7.9	8.0	91	43	54	36	1.3	●
080-043-08 PI5	8.0	8.0	91	43	54	36	1.3	●
081-049-10 PI5	8.1	10.0	103	49	62	40	1.3	●
082-049-10 PI5	8.2	10.0	103	49	62	40	1.3	●
083-049-10 PI5	8.3	10.0	103	49	62	40	1.3	●
084-049-10 PI5	8.4	10.0	103	49	62	40	1.3	●
085-049-10 PI5	8.5	10.0	103	49	62	40	1.3	●
086-049-10 PI5	8.6	10.0	103	49	62	40	1.4	●
087-049-10 PI5	8.7	10.0	103	49	62	40	1.4	●
088-049-10 PI5	8.8	10.0	103	49	62	40	1.4	●
089-049-10 PI5	8.9	10.0	103	49	62	40	1.4	●
090-049-10 PI5	9.0	10.0	103	49	62	40	1.4	●
091-049-10 PI5	9.1	10.0	103	49	62	40	1.4	●
092-049-10 PI5	9.2	10.0	103	49	62	40	1.4	●
093-049-10 PI5	9.3	10.0	103	49	62	40	1.5	●
094-049-10 PI5	9.4	10.0	103	49	62	40	1.5	●
095-049-10 PI5	9.5	10.0	103	49	62	40	1.5	●
096-049-10 PI5	9.6	10.0	103	49	62	40	1.5	●
097-049-10 PI5	9.7	10.0	103	49	62	40	1.5	●
098-049-10 PI5	9.8	10.0	103	49	62	40	1.6	●
099-049-10 PI5	9.9	10.0	103	49	62	40	1.6	●

Cutting Condition D212

●: Standard items

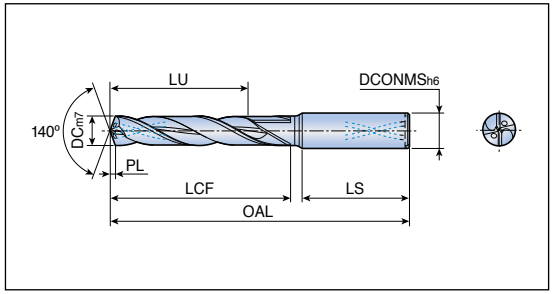
TaeguTec

NHD...PI5

HDRILL

Solid carbide drills with oil holes





• Drilling depth: 4-5xdiameter

Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	LS	PL	TT9030
NHD 100-049-10 PI5	10.0	10.0	103	49	62	40	1.6	●
101-056-12 PI5	10.1	12.0	118	56	71	45	1.6	●
102-056-12 PI5	10.2	12.0	118	56	71	45	1.6	●
103-056-12 PI5	10.3	12.0	118	56	71	45	1.6	●
104-056-12 PI5	10.4	12.0	118	56	71	45	1.6	●
105-056-12 PI5	10.5	12.0	118	56	71	45	1.6	●
106-056-12 PI5	10.6	12.0	118	56	71	45	1.7	●
107-056-12 PI5	10.7	12.0	118	56	71	45	1.7	●
108-056-12 PI5	10.8	12.0	118	56	71	45	1.7	●
109-056-12 PI5	10.9	12.0	118	56	71	45	1.7	●
110-056-12 PI5	11.0	12.0	118	56	71	45	1.7	●
111-056-12 PI5	11.1	12.0	118	56	72	45	1.7	●
112-056-12 PI5	11.2	12.0	118	56	72	45	1.8	●
113-056-12 PI5	11.3	12.0	118	56	72	45	1.8	●
114-056-12 PI5	11.4	12.0	118	56	72	45	1.8	●
115-056-12 PI5	11.5	12.0	118	56	72	45	1.8	●
116-056-12 PI5	11.6	12.0	118	56	72	45	1.8	●
117-056-12 PI5	11.7	12.0	118	56	72	45	1.9	●
118-056-12 PI5	11.8	12.0	118	56	72	45	1.9	●
119-056-12 PI5	11.9	12.0	118	56	72	45	1.9	●
120-056-12 PI5	12.0	12.0	118	56	72	45	1.9	●

●: Standard items

Cutting Condition D212

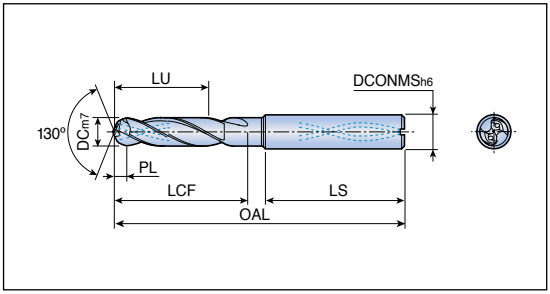
ADVANCE MACHINING TaeguTec Industry 4.0

NHD…KI3

HDRILL

Solid carbide drills with oil holes for cast iron machining





• Drilling depth: 3xdiameter

Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	LS	PL	TT9030
NHD 030-014-06 KI3	3.0	6.0	62	14	20	34	1.4	●
033-014-06 KI3	3.3	6.0	62	14	20	34	1.6	●
035-014-06 KI3	3.5	6.0	62	14	20	34	1.7	●
040-017-06 KI3	4.0	6.0	66	17	24	35	1.9	●
041-017-06 KI3	4.1	6.0	66	17	24	35	2.0	●
042-017-06 KI3	4.2	6.0	66	17	24	35	2.0	●
045-017-06 KI3	4.5	6.0	66	17	24	35	2.2	●
046-017-06 KI3	4.6	6.0	66	17	24	35	2.2	●
050-020-06 KI3	5.0	6.0	66	20	27	36	2.4	●
051-020-06 KI3	5.1	6.0	66	20	27	36	2.5	●
052-020-06 KI3	5.2	6.0	66	20	27	36	2.5	●
055-020-06 KI3	5.5	6.0	66	20	27	36	2.6	●
060-020-06 KI3	6.0	6.0	66	20	27	36	2.9	●
061-024-08 KI3	6.1	8.0	79	24	34	36	2.9	●
065-024-08 KI3	6.5	8.0	79	24	34	36	3.1	●
067-024-08 KI3	6.7	8.0	79	24	34	36	3.2	●
068-024-08 KI3	6.8	8.0	79	24	34	36	3.3	●
070-024-08 KI3	7.0	8.0	79	24	34	36	3.4	●
075-029-08 KI3	7.5	8.0	79	29	40	36	3.6	●
080-029-08 KI3	8.0	8.0	79	29	40	36	3.8	●
081-035-10 KI3	8.1	10.0	89	35	45	40	3.9	●
085-035-10 KI3	8.5	10.0	89	35	45	40	4.1	●
087-035-10 KI3	8.7	10.0	89	35	45	40	4.2	●
089-035-10 KI3	8.9	10.0	89	35	45	40	4.3	●
090-035-10 KI3	9.0	10.0	89	35	45	40	4.3	●
095-035-10 KI3	9.5	10.0	89	35	45	40	4.6	●
100-035-10 KI3	10.0	10.0	89	35	45	40	4.8	●
103-040-12 KI3	10.3	12.0	102	40	53	45	4.9	●
105-040-12 KI3	10.5	12.0	102	40	53	45	5.0	●
110-040-12 KI3	11.0	12.0	102	40	53	45	5.3	●
115-040-12 KI3	11.5	12.0	102	40	53	45	5.5	●
120-040-12 KI3	12.0	12.0	102	40	53	45	5.8	●

Cutting Condition D212

●: Standard items

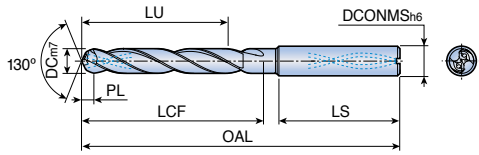
TaeguTec

NHD…KI5

HDRILL

Solid carbide drills with oil holes for cast iron machining





• Drilling depth: 5xdiameter

Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	LS	PL	TT9030
NHD 030-023-06 KI5	3.0	6.0	66	23	27	34	1.4	●
033-023-06 KI5	3.3	6.0	66	23	27	34	1.6	●
035-023-06 KI5	3.5	6.0	66	23	27	34	1.7	●
040-029-06 KI5	4.0	6.0	74	29	34	35	1.9	●
042-029-06 KI5	4.2	6.0	74	29	34	35	2.0	●
045-029-06 KI5	4.5	6.0	74	29	35	35	2.2	●
046-029-06 KI5	4.6	6.0	74	29	35	35	2.2	●
050-035-06 KI5	5.0	6.0	82	35	43	36	2.4	●
052-035-06 KI5	5.2	6.0	82	35	43	36	2.5	●
055-035-06 KI5	5.5	6.0	82	35	43	36	2.6	●
060-035-06 KI5	6.0	6.0	82	35	43	36	2.9	●
065-043-08 KI5	6.5	8.0	91	43	52	36	3.1	●
067-043-08 KI5	6.7	8.0	91	43	52	36	3.2	●
068-043-08 KI5	6.8	8.0	91	43	52	36	3.3	●
070-043-08 KI5	7.0	8.0	91	43	52	36	3.4	●
075-043-08 KI5	7.5	8.0	91	43	52	36	3.6	●
080-043-08 KI5	8.0	8.0	91	43	52	36	3.8	●
081-049-10 KI5	8.1	10.0	103	49	59	40	3.9	●
085-049-10 KI5	8.5	10.0	103	49	59	40	4.1	●
087-049-10 KI5	8.7	10.0	103	49	59	40	4.2	●
089-049-10 KI5	8.9	10.0	103	49	59	40	4.3	●
090-049-10 KI5	9.0	10.0	103	49	59	40	4.3	●
095-049-10 KI5	9.5	10.0	103	49	59	40	4.6	●
100-049-10 KI5	10.0	10.0	103	49	59	40	4.8	●
103-056-12 KI5	10.3	12.0	118	56	69	45	4.9	●
105-056-12 KI5	10.5	12.0	118	56	69	45	5.0	●
110-056-12 KI5	11.0	12.0	118	56	69	45	5.3	●
115-056-12 KI5	11.5	12.0	118	56	69	45	5.5	●
120-056-12 KI5	12.0	12.0	118	56	69	45	5.8	●

●: Standard items

Cutting Condition D212

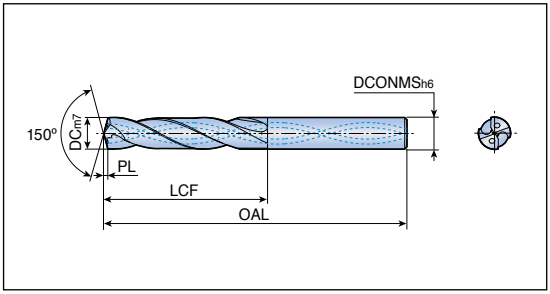
ADVANCE MACHINING TaeguTec Industry 4.0

SHO 3...-PH

HDRILL

Solid pilot drills for solid long drill





• M.Q.L drilling is available

Designation	Dimension (mm)					Grade
	DC	DCONMS	OAL	LCF	PL	TT9030
SHO 30403-PH	4.03	4	66.5	24.5	0.5	●
30503-PH	5.03	5	68.6	30.6	0.6	●
30603-PH	6.03	6	68.7	30.7	0.7	●
30703-PH	7.03	7	73.8	35.8	0.8	●
30803-PH	8.03	8	79.9	41.9	0.9	●
30903-PH	9.03	9	91.0	49.0	1.0	●
31003-PH	10.03	10	91.1	49.1	1.1	●

Cutting Condition D212

●: Standard items

TaeguTec

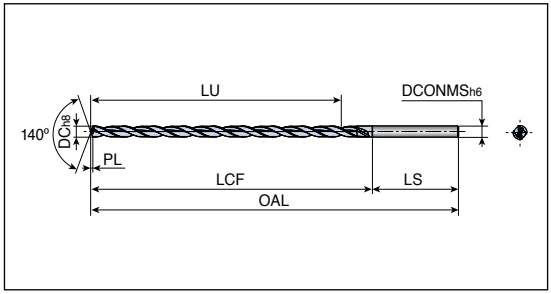
SHO 10/15/20

HDRILL

Solid long drills with oil holes



- Drilling depth: 10/15/20xdiameter
- M.Q.L drilling is available



Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	LS	PL	TT9030
SHO 10040	4.0	4	105.6	50	55.6	50	0.6	●
10050	5.0	5	115.8	60	65.8	50	0.8	●
10060	6.0	6	131.0	76	81.0	50	1.0	●
10070	7.0	7	141.1	86	91.1	50	1.1	●
10080	8.0	8	156.3	98	106.3	50	1.3	●
10090	9.0	9	171.4	108	116.4	55	1.4	●
10100	10.0	10	191.6	123	131.6	60	1.6	●
15040	4.0	4	125.6	70	75.6	50	0.6	●
15050	5.0	5	140.8	85	90.8	50	0.8	●
15060	6.0	6	161.0	106	111.0	50	1.0	●
15070	7.0	7	176.1	121	126.1	50	1.1	●
15080	8.0	8	196.3	138	146.3	50	1.3	●
15090	9.0	9	221.4	153	161.4	60	1.4	●
15100	10.0	10	241.6	173	181.6	60	1.6	●
20040	4.0	4	140.6	85	90.6	50	0.6	●
20050	5.0	5	165.8	110	115.8	50	0.8	●
20060	6.0	6	191.0	136	141.0	50	1.0	●
20070	7.0	7	211.1	156	161.1	50	1.1	●
20080	8.0	8	231.3	173	181.3	50	1.3	●
20090	9.0	9	266.4	198	206.4	60	1.4	●
20100	10.0	10	286.6	218	226.6	60	1.6	●

●: Standard items

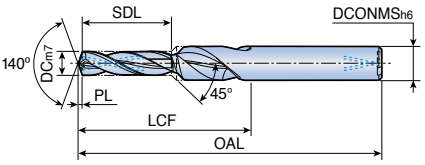
Cutting Condition D212

SHO...-M

HDRILL

Solid carbide drills for pre-thread holes





Designation	ISO thread	Dimension (mm)						Grade
		DC	OAL	SDL	LCF	DCONMS	PL	TT9030
SHO 033x12x6-M4	M4	3.3	62.5	12	26.5	6	0.5	●
042x15x6-M5	M5	4.2	66.6	15	28.6	6	0.6	●
050x18x8-M6	M6	5.0	79.8	18	36.8	8	0.8	●
068x24x10-M8	M8	6.8	91.0	24	49.0	10	1.0	●
085x30x12-M10	M10	8.5	103.3	30	56.3	12	1.3	●

Cutting Condition D212

●: Standard items

TaeguTec

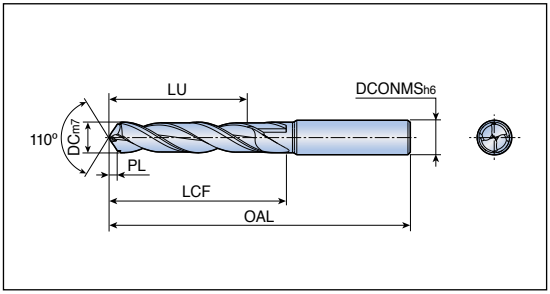
CDF

HDRILL

Solid carbide drills for composite material







Designation	Dimension (mm)							Grade
	DC (Metric)	DC (Inch)	DCONMS	OAL	LU	LCF	PL	TTD610
CDF 030-027-06	3	-	6	72.7	28	34.7	0.7	●
040-027-06	4	-	6	73.0	28	35.0	1.0	●
0476-034-06	4.76	3/16	6	81.3	35	43.3	1.3	●
050-034-06	5	-	6	81.3	35	43.3	1.3	●
060-034-06	6	-	6	81.7	36	43.7	1.7	●
0635-040-08	6.35	-	8	89.7	42	51.7	1.7	●
070-040-08	7	-	8	89.9	42	51.9	1.9	●
0794-040-08	7.94	5/16	8	90.2	42	52.2	2.2	●
080-040-08	8	-	8	90.2	42	52.2	2.2	●
090-045-10	9	-	10	101.5	48	59.5	2.5	●
0952-045-10	9.52	3/8	10	101.6	48	59.6	2.6	●
100-045-10	10	-	10	101.8	48	59.8	2.8	●
110-052-12	11	-	12	117.1	55	70.1	3.1	●
1111-052-12	11.11	7/16	12	117.1	55	70.1	3.1	●
120-052-12	12	-	12	117.4	55	70.4	3.4	●
127-055-14	12.7	1/2	14	122.6	59c	75.6	3.6	●

●: Standard items

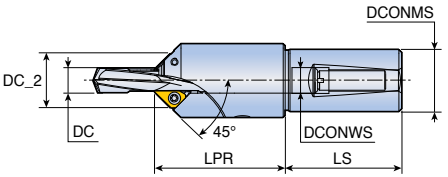
Cutting Condition D224

ADVANCE MACHINING TaeguTec Industry 4.0

T-CHAMFER...T1

Chamfering tools with solid carbide drill





Designation	DC	Dimension (mm)					Insert
		DCONWS	DC_2	DCONMS	LPR	LS	
T-CHAMFER 080-20T1-06	7.1-8.0	8	18.8	20	47.4	50	XCGT 06...-C.. D178
090-20T1-06	8.1-9.0	9	19.8	20	47.4	50	
100-32T1-09	9.1-10.0	10	24.9	32	67.3	60	XCGT 09...-C.. D178
110-32T1-09	10.1-11.0	11	25.9	32	67.3	60	
120-32T1-09	11.1-12.0	12	26.9	32	67.3	60	
130-32T1-09	12.1-13.0	13	27.9	32	67.3	60	
140-32T1-09	13.1-14.0	14	28.4	32	67.3	60	
150-32T1-09	14.1-15.0	15	29.4	32	67.3	60	
160-32T1-09	15.1-16.0	16	30.4	32	67.3	60	
170-32T1-09	16.1-17.0	17	31.4	32	67.3	60	
180-32T1-09	17.1-18.0	18	32.4	32	67.3	60	
190-32T1-09	18.1-19.0	19	33.4	32	75.0	60	
200-32T1-09	19.1-20.0	20	34.4	32	75.0	60	

Spare parts

Designation	Side screw	Back screw	L-wrench	Insert screw	Wrench
T-CHAMFER 080 - 090	SS M6x1x6	M6x1-SP	L-W 3	TS 25064I	TD 8
T-CHAMFER 100 - 200	SS M10x1.5x10	M10x1.5-SP	L-W 5	TS 40093I	TD 15

Assembly D90

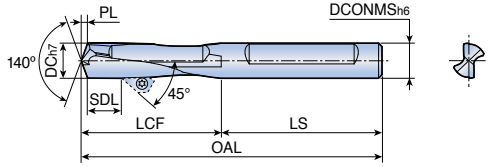
SHD 3...-CF

T-CHAMFER

Solid carbide drills for T-CHAMFER







Designation	Dimension (mm)								Grade
	DC	DCONMS	OAL	LCF	LS	SDL min	SDL max	PL	TT9030
SHD 3080-CF	8.0	8.0	80.3	37.3	43	9.5	17.5	1.3	●
3090-CF	9.0	9.0	85.4	42.4	43	13.0	23.5	1.4	●
3100-CF	10.0	10.0	90.6	47.6	43	15.5	25.0	1.6	●
3110-CF	11.0	11.0	96.8	53.8	43	21.5	30.0	1.8	●
3120-CF	12.0	12.0	103.9	60.9	43	25.5	37.0	1.9	●
3130-CF	13.0	13.0	104.1	61.1	43	25.5	35.0	2.1	●
3150-CF	15.0	15.0	113.4	65.4	48	26.5	40.5	2.4	●
3170-CF	17.0	17.0	121.7	71.7	50	24.5	44.0	2.7	●
3180-CF	18.0	18.0	125.9	75.9	50	26.5	48.0	2.9	●
3190-CF	19.0	19.0	130.0	76	54	26.5	49.0	3.0	●

• 'SDL' is factored with a 45° insert positioned in insert pocket
• Solid carbide drill with internal coolant holes is available on request

●: Standard items

Insert	Chamfer angle (°)	Chamfer size
XCGT 0603-C30	30°	1.5
0603-C45	45°	4.5
0603-C60	60°	2.5
XCGT 0903-C30	30°	1.5
0903-C45	45°	6.0
0903-C60	60°	3.5

• The maximum chamfer size is obtained when using the smallest drill diameter in the drilling range

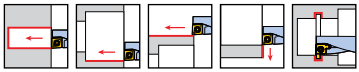
TCAP...-2.25DN

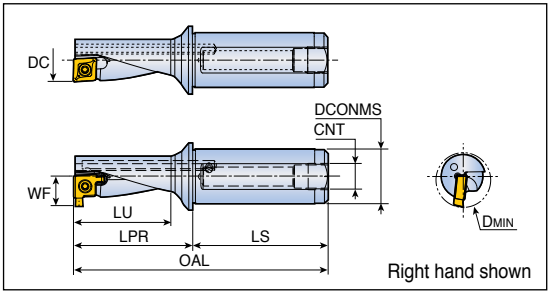
TOPCAP

Multi-function toolholders - 2.25xD



• Internal coolant





Designation	Dimension (mm)								Insert	
	DC	DCONMS	WF	LU	LPR	LS	DMIN	CNT	For drilling, boring, turning	For grooving
TCAP 08R/L-2.25DN	8	12	-	18.0	22.5	42	-	G 1/16	XCM(G)T 04...TC/TA	-
10R/L-2.25DN-GV	10	12	7.1	22.5	27.5	42	12.0	G 1/16	XCM(G)T 05...TC/TA	XCMT 05R...GV
12R/L-2.25DN-GV	12	16	8.5	27.0	33.0	45	14.5	G 1/8	XCM(G)T 06...TC/TA	XCMT 06R...GV
14R/L-2.25DN-GV	14	16	9.5	31.5	38.5	45	16.5	G 1/8	XCM(G)T 07...TC/TA	XCMT 07R...GV
16R/L-2.25DN-GV	16	20	11.1	36.0	44.0	50	19.0	G 1/8	XCM(G)T 08...TC/TA	XCMT 08R...GV
20R/L-2.25DN-GV	20	25	13.2	45.0	55.0	56	23.5	G 1/8	XCM(G)T 10...TC/TA	XCMT 10R...GV
25R/L-2.25DN-GV	25	32	16.5	56.2	69.0	61	29.0	G 1/8	XCM(G)T 13...TC/TA	XCMT 13R...GV
32R/L-2.25DN-GV	32	40	20.5	72.0	86.0	74	36.5	G 1/8	XCM(G)T 17...TC/TA	XCMT 17R...GV
									D179-180	D179

• OAL = LPR+LS

• Grooving insert is available for right handed type

Spare parts

Designation	Screw	Wrench		
TCAP 08	TS 18034I/HG-P	T 6P		
TCAP 10	TS 20038I/HG-P	T 6P		
TCAP 12	TS 22052I/HG-P	T 7P		
TCAP 14	TS 25064I/HG-P	T 8P		
TCAP 16	TS 30100I/HG-P		TD 9P	
TCAP 20	TS 35088I/HG-P		TD10P	
TCAP 25	TS 45A100I/HG		TD 20	
TCAP 32	TS 45A100I/HG		TD 20	

Cutting Condition D214

TaeguTec

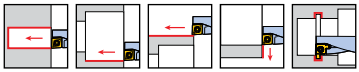
TCAP...-3.0DN

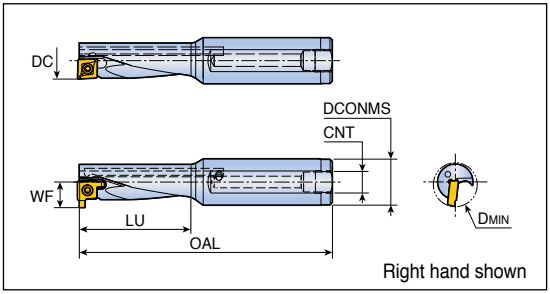
TOPCAP

Multi-function toolholders - 3.0xD



• Internal coolant





Designation	Dimension (mm)							Insert	
	DC	DCONMS	WF	LU	OAL	DMIN	CNT	For drilling, boring, turning	For grooving
TCAP 08R/L-3.0DN12	8	12	-	24	80	-	G 1/16	XCM(G)T 04...TC/TA	-
10R/L-3.0DN-GV	10	12	7.1	30	85	12.0	G 1/16	XCM(G)T 05...TC/TA	XCMT 05R...GV
12R/L-3.0DN-GV	12	16	8.5	36	95	14.5	G 1/8	XCM(G)T 06...TC/TA	XCMT 06R...GV
14R/L-3.0DN-GV	14	16	9.5	42	100	16.5	G 1/8	XCM(G)T 07...TC/TA	XCMT 07R...GV
16R/L-3.0DN-GV	16	20	11.1	48	110	19.0	G 1/8	XCM(G)T 08...TC/TA	XCMT 08R...GV
20R/L-3.0DN-GV	20	25	13.2	60	130	23.5	G 1/8	XCM(G)T 10...TC/TA	XCMT 10R...GV
25R/L-3.0DN-GV	25	32	16.5	75	150	29.0	G 1/8	XCM(G)T 13...TC/TA	XCMT 13R...GV
32R/L-3.0DN-GV	32	40	20.5	96	185	36.5	G 1/8	XCM(G)T 17...TC/TA	XCMT 17R...GV
								D179-180	D179

• OAL = LPR+LS
• Grooving insert is available for right handed type

Spare parts

Designation	Screw	Wrench		
				
TCAP 08	TS 18034I/HG-P	T 6P		
TCAP 10	TS 20038I/HG-P	T 6P		
TCAP 12	TS 22052I/HG-P	T 7P		
TCAP 14	TS 25064I/HG-P	T 8P		
TCAP 16	TS 30100I/HG-P		TD 9P	
TCAP 20	TS 35088I/HG-P		TD10P	
TCAP 25	TS 45A100I/HG		TD 20	
TCAP 32	TS 45A100I/HG		TD 20	

Cutting Condition D214

ADVANCE MACHINING TaeguTec Industry 4.0

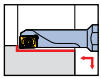
S...SXUCR/L

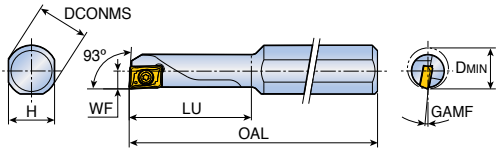
TOP CAP

Boring bars with TOP-CAP inserts



- For boring
- External coolant





Right hand shown

Designation	Dimension (mm)							Insert
	DCONMS	H	OAL	LU	WF	DMIN	GAMF	
S10H SXUCR/L 04-06 (1)	10	9	100	21	3.0	6	9°	XCMT 04...R/L TC
S10J SXUCR/L 04-07 (1)	10	9	110	24.5	3.5	7	5°	D180
S10J SXUCR/L 04-08 (1)	10	9	110	28	4.0	8	2°	
S10K SXUCR/L 05-10	10	9	125	35	5.0	10	2°	XCMT 05..TC
								D180

- (1) Right hand Insert should be used in right hand boring bar

Spare parts

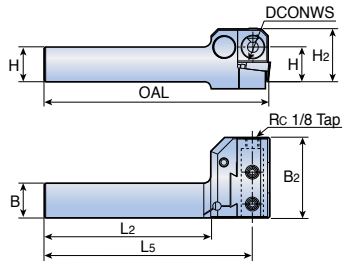
Designation	Screw	Wrench		
				
S10H SXUCR/L 04-06	TS 18034I/HG-P	T 6P		
S10J SXUCR/L 04-07	TS 18034I/HG-P	T 6P		
S10J SXUCR/L 04-08	TS 18034I/HG-P	T 6P		
S10K SXUCR/L 05-10	TS 20038I/HG-P	T 6P		

Cutting Condition D214

TGHR

Clamping units (Centre alignment system)





Designation	Dimension (mm)								Toolholders
	H	B	DCONWS	H2	B2	L2	L5	OAL	
TGHR 2020-D16	20	20	16	38	58	120	150	161	TCAP 08R/L...
2525-D16	25	25	16	38	58	120	150	161	TCAP 10R/L...
									TCAP 12R/L...
									TCAP 14R/L...
2525-D25	25	25	25	56	75	120	157	174	TCAP 16R/L...
									TCAP 20R/L...

Spare parts

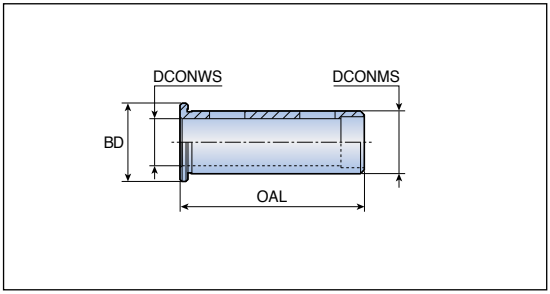
Designation	Block	Wedge	Snap ring	Wedge screw	Mounting pin	Mounting pin screw	Mounting screw		Lock screw	Wrench
										
TGHR 2020-D16	TGHR-D16-BL	TGHR-WD	WSR 4	TGH-WS	TGH-MPI	TGH-MPS	SSxM8 1.25X10-C	SSxM8 x1.25x8	-	L-W 4
TGHR 2525-D16										
TGHR 2525-D25	TGHR-D25-BL	TGHR-WD-25	WSR 4	TGH-WS-25	TGH-MPI-25	TGH-MPS-25	SS M10 x1.5x12-C	SS M101.5x10	SH M6x1x20	L-W 4 L-W 5

TSL

TOPCAP

Sleeves for clamping unit





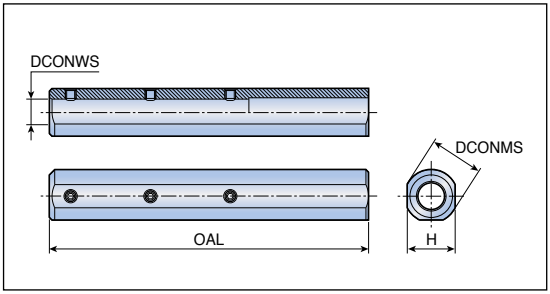
Designation	Dimension (mm)				Toolholders
	DCONMS	DCONWS	BD	OAL	
TSL 16-12	16	12	20	47	TCAP 10R/L...
25-20	25	20	32	55	TCAP 16R/L...

TBSL

TOPCAP

Sleeves for boring bar





Designation	Dimension (mm)			
	DCONMS	DCONWS	OAL	H
TBSL 20-10-120	20	10	120	18

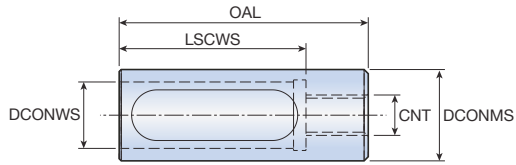
Spare parts

Designation	Screw	Wrench		
				
TBSL 20-10-120	SS M4x0.7x4	L-W 2		

TSL-NC

Drill sleeves for Swiss type automatic lathes (Fixed type, internal coolant)



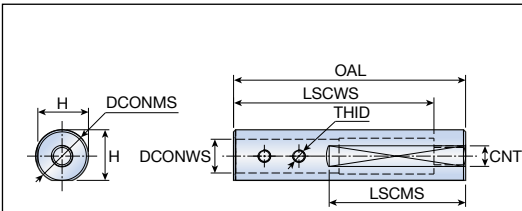


Designation		Dimension (mm)				
		DCONMS	DCONWS	LSCWS	OAL	CNT
TSL-NC	**19.05-12**	19.05	12.0	45	60	Rc 1/8
	19.05-16	19.05	16.0	45	60	Rc 1/8
	20-12	20.0	12.0	45	60	Rc 1/8
	20-16	20.0	16.0	45	60	Rc 1/8
	22-16	22.0	16.0	45	60	Rc 1/8
	25-20	25.0	20.0	45	60	Rc 1/8
	25.4-20	25.4	20.0	45	60	Rc 1/8
	32-25	32.0	25.0	45	60	Rc 1/8

TSL-SW

Drill sleeves for Swiss type automatic lathes (Adjustable type, internal coolant)

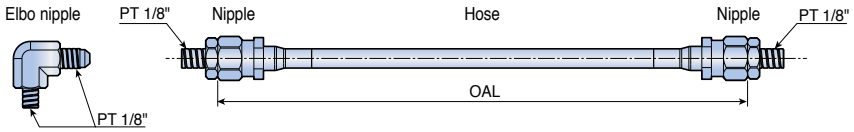




Designation		Dimension (mm)							
		DCONMS	DCONWS	LSCWS	LSCMS	OAL	H	THID	CNT
TSL-SW	**22-12**	22.0	12.0	95	65	110	21.0	M6	Rc 1/8
	25-12	25.0	12.0	95	65	110	24.0	M8	Rc 1/8
	25-16	25.0	16.0	95	65	110	24.0	M6	Rc 1/8
	25.4-12	25.4	12.0	95	65	110	24.4	M8	Rc 1/8
	25.4-16	25.4	16.0	95	65	110	24.4	M6	Rc 1/8
	32-12	32.0	12.0	95	65	110	31.0	M8	Rc 1/8
	32-16	32.0	16.0	95	65	110	31.0	M8	Rc 1/8
	32-20	32.0	20.0	95	65	110	31.0	M8	Rc 1/8

Accessories

Hose set



* Hose set components: 1 hose, 2 nipples, 1 elbo nipple

Designation		Dimension (mm)	
		OAL (mm)	Max. pressure (bar)
S-TSL HOSE	**R1/8-220**	220	100
	R1/8-350	350	100

• Hose set is ordered separately

Spare parts

Designation	Mounting screw	Wrench		
				
TSL-SW 22-12	SS M6X1X5	L-W 3		
TSL-SW 25-12	SS M8X1.25X6	L-W 4		
TSL-SW 25-16	SS M6X1X5	L-W 3		
TSL-SW 25.4-12	SS M8X1.25X6	L-W 4		
TSL-SW 25.4-16	SS M6X1X5	L-W 3		
TSL-SW 32-12	SS M8X1.25X6	L-W 4		
TSL-SW 32-16	SS M8X1.25X6	L-W 4		
TSL-SW 32-20	SS M8X1.25X6	L-W 4		

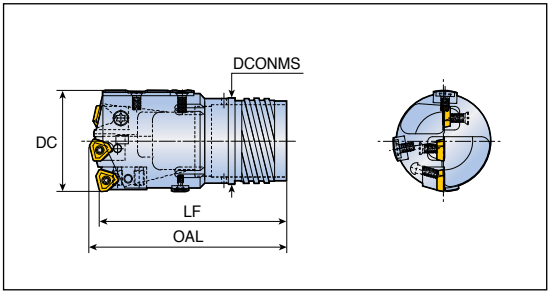
Deep Drilling Tools



TBTA3...SE4

Single tube system





• Outer four start thread

Designation	DC	Dimension (mm)			Tube	
		LF	OAL	DCONMS	Part	Diameter (mm)
TBTA3-xxx.xxSE4-33	38.00-39.60	85	90	30	BTSI 033	33
xxx.xxSE4-36	39.61-43.00	85	91	33	BTSI 036	36
xxx.xxSE4-39	43.01-47.00	95	101	36	BTSI 039	39
xxx.xxSE4-43	47.01-51.70	95	102	39	BTSI 043	43
xxx.xxSE4-47	51.71-56.20	100	107	43	BTSI 047	47
xxx.xxSE4-51	56.21-60.60	110	118	47	BTSI 051	51
xxx.xxSE4-56A	60.61-64.99	110	119	51	BTSI 056A	56
xxx.xxSE4-56B	65.00-66.99	150	159	52	BTSI 056B	56
xxx.xxSE4-62	67.00-72.99	150	159	58	BTSI 062	62
xxx.xxSE4-68	73.00-79.99	150	160	63	BTSI 068	68
xxx.xxSE4-75	80.00-86.99	180	191	70	BTSI 075	75
xxx.xxSE4-82	87.00-99.99	180	193	77	BTSI 082	82
xxx.xxSE4-94	100.00-106.99	180	193	89	BTSI 094	94

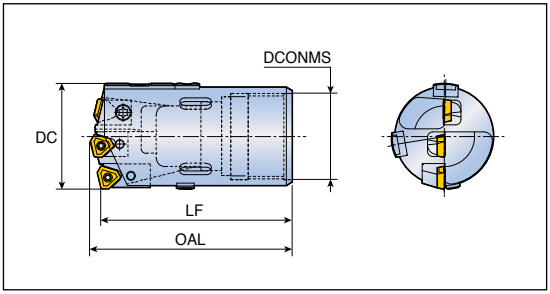
Assembly D102 | Tube D135 | Cutting Condition D216

TBTA3...SI1

TDEEP

Single tube system





• Inner single start thread

Designation	DC	Dimension (mm)			Tube	
		LF	OAL	DCONMS	Part	Diameter (mm)
TBTA3- xxx.xxSI1-33	38.00-39.99	80	85	30	BTSE 033	33
xxx.xxSI1-36	40.00-43.99	80	86	33	BTSE 036	36
xxx.xxSI1-39	44.00-46.99	90	96	37	BTSE 039	39
xxx.xxSI1-43	47.00-51.99	90	97	41	BTSE 043	43
xxx.xxSI1-47	52.00-56.99	100	107	44	BTSE 047	47
xxx.xxSI1-51	57.00-60.99	110	118	49	BTSE 051	51
xxx.xxSI1-56	61.00-67.99	110	119	53	BTSE 056	56
xxx.xxSI1-62	68.00-74.99	120	129	59	BTSE 062	62
xxx.xxSI1-68	75.00-80.99	150	161	65	BTSE 068	68
xxx.xxSI1-75	81.00-90.99	150	162	71	BTSE 075	75
xxx.xxSI1-82	91.00-98.99	150	162	79	BTSE 082	82
xxx.xxSI1-94	99.00-106.99	150	163	90	BTSE 094	94

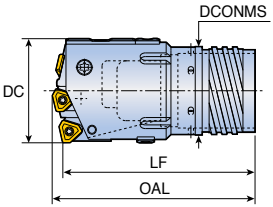
Assembly D102 | Tube D135 | Cutting Condition D216

TBTA3...DE4

TDEEP

Double tube system





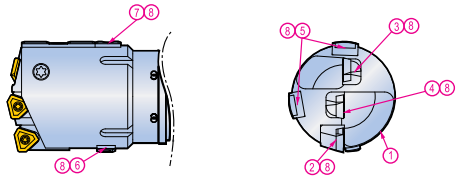
• Outer four start thread

Designation		DC	Dimension (mm)			Tube		
			LF	OAL	DCONMS	Outer tube	Inner tube	Diameter (mm)
TBTA3-	**xxx.xxDE4-35.5**	38.00-39.60	85	90	33	BTDO 035.5	BTDI 026	35.5
	xxx.xxDE4-39	39.61-43.00	85	91	36	BTDO 039	BTDI 029	39.0
	xxx.xxDE4-42.5	43.01-47.00	95	101	39	BTDO 042.5	BTDI 032	42.5
	xxx.xxDE4-46.5	47.01-51.70	100	102	43	BTDO 046.5	BTDI 035	46.5
	xxx.xxDE4-51	51.71-56.20	100	107	47	BTDO 051	BTDI 039	51.0
	xxx.xxDE4-55.5	56.21-65.00	110	119	51	BTDO 055.5	BTDI 043A	55.5
	xxx.xxDE4-56	65.00-66.99	150	159	52	BTDO 056	BTDI 043B	56.0
	xxx.xxDE4-62	67.00-72.99	150	159	58	BTDO 062	BTDI 048	62.0
	xxx.xxDE4-68	73.00-79.99	150	160	63	BTDO 068	BTDI 053	68.0
	xxx.xxDE4-75	80.00-86.99	180	191	70	BTDO 075	BTDI 059	75.0
	xxx.xxDE4-82	87.00-99.99	180	193	77	BTDO 082	BTDI 066	82.0
	xxx.xxDE4-94	100.00-106.99	180	193	89	BTDO 094	BTDI 078	94.0

Assembly D102 | Tube D135 | Cutting Condition D216

TBTA3 Series

Assembly of TBTA3 series



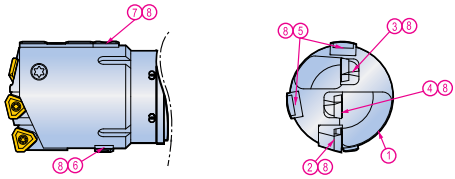
1. Head shank
2. Outer cartridge
3. Inner cartridge
4. Center cartridge
5. Guide pad
6. Sub guide pad
7. Guide pad protector
8. Lock screw

	Parts	Diameter (mm)				
		38.00-39.99	40.00-44.99	45.00-47.99	48.00-51.99	52.00-54.99
Cartridge	Outer	PERC 05R	PERC 402-04	PERC 402-04	PERC 402-04	PERC 402-32
	Adjust screw	AS0003-5	AS0004-8	AS0004-8	AS0004-8	AS0005-10
	Wrench	H1.5	H2	H2	H2	H2.5
	Screw	LS1803RH	LS1803.5RH	LS1803.5RH	LS1803.5RH	LS1805RH
	Wrench	H2	H2.5	H2.5	H2.5	H3
	Inner	CENC 05R	CENC 05R	CENC 05R	CENC 402-04	CENC 402-04
	Screw	CSTB3	CSTB3	CSTB3	CSTB3.5	CSTB3.5
	Wrench	T-9D	T-9D	T-9D	T-15D	T-15D
	Center	CENC 05R	CENC 05R	CENC 402-04	CENC 402-04	CENC 402-04
	Screw	CSTB3	CSTB3	CSTB3.5	CSTB3.5	CSTB3.5
	Wrench	T-9D	T-9D	T-15D	T-15D	T-15D
Insert	Outer	NPMX 080308R-G	TPMX 140308R-G	TPMX 140308R-G	TPMX 140308R-G	TPMX 170408R-G
	Screw	CSTB2.2	CSTB2.5	CSTB2.5	CSTB2.5	CSTB3.5D
	Wrench	T-7D	T-8D	T-8D	T-8D	T-9D
	Inner	NPMX 080308R-G	NPMX 080308R-G	NPMX 080308R-G	TPMX 140308R-G	TPMX 140308R-G
	Screw	CSTB2.2	CSTB2.2	CSTB2.2	CSTB2.5	CSTB2.5
	Wrench	T-7D	T-7D	T-7D	T-8D	T-8D
	Center	NPMX 080308R-G	NPMX 080308R-G	TPMX 140308R-G	TPMX 140308R-G	TPMX 140308R-G
	Screw	CSTB2.2	CSTB2.2	CSTB2.5	CSTB2.5	CSTB2.5
	Wrench	T-7D	T-7D	T-8D	T-8D	T-8D
Pad	Guide pad	PAD-GP08-25-155-DC-SB	PAD-GP08-25-155-DC-SB	PAD-GP10-35-200-DC-SB	PAD-GP10-35-200-DC-SB	PAD-GP10-35-200-DC-SB
		PAD-GP08-25-155-DC-SC	PAD-GP08-25-155-DC-SC	PAD-GP10-35-200-DC-SC	PAD-GP10-35-200-DC-SC	PAD-GP10-35-200-DC-SC
	Screw	CSTB3S	CSTB3S	CSTB4S	CSTB4S	CSTB4S
	Wrench	T-9D	T-9D	T-15D	T-15D	T-15D
	Guide pad protector	PAD-P08	PAD-P08	PAD-P10	PAD-P10	PAD-P10
	Screw	CSTB3S	CSTB3S	CSTB4S	CSTB4S	CSTB4S
	Wrench	T-9D	T-9D	T-15D	T-15D	T-15D
	Sub guide pad	PAD-S08	PAD-S08	PAD-S08	PAD-S08	PAD-S08
	Screw	CSTB3S	CSTB3S	CSTB3S	CSTB3S	CSTB3S
	Wrench	T-9D	T-9D	T-9D	T-9D	T-9D

D184 Guide Pad D187 Cartridge D190

TBTA3 Series

Assembly of TBTA3 series



1. Head shank
2. Outer cartridge
3. Inner cartridge
4. Center cartridge
5. Guide pad
6. Sub guide pad
7. Guide pad protector
8. Lock screw

	Parts	Diameter (mm)				
		55.00-57.99	58.00-59.99	60.00-63.99	64.00-67.99	68.00-77.99
Cartridge	Outer	PERC 402-32	PERC 402-32	PERC 402-32	PERC 402-43	PERC 402-32
	Adjust screw	AS0005-10	AS0005-10	AS0005-10	AS0005-15	AS0005-10
	Wrench	H2.5	H2.5	H2.5	H2.5	H2.5
	Screw	LS1805RH	LS1805RH	LS1805RH	LS1806RH	LS1805RH
	Wrench	H3	H3	H3	H4	H3
	Inner	CENC 402-04	CENC 402-32	CENC 402-32	CENC 402-32	CENC 402-43
	Screw	CSTB3.5	CSTA5	CSTA5	CSTA5	LS1206
	Wrench	T-15D	T-15D	T-15D	T-15D	H3
	Center	CENC 402-32	CENC 402-32	CENC 402-32	CENC 402-32	CENC 402-43
	Screw	CSTA5	CSTA5	CSTA5	CSTA5	LS1206
	Wrench	T-15D	T-15D	T-15D	T-15D	H3
Insert	Outer	TPMX 170408R-G	TPMX 170408R-G	TPMX 170408R-G	TPMX 240512R-G	TPMX 170408R-G
	Screw	CSTB3.5D	CSTB3.5D	CSTB3.5D	CSTB4M	CSTB3.5D
	Wrench	T-9D	T-9D	T-9D	T-15D	T-9D
	Inner	TPMX 140308R-G	TPMX 170408R-G	TPMX 170408R-G	TPMX 170408R-G	TPMX 240512R-G
	Screw	CSTB2.5	CSTB3.5D	CSTB3.5D	CSTB3.5D	CSTB4M
	Wrench	T-8D	T-9D	T-9D	T-9D	T-15D
	Center	TPMX 170408R-G	TPMX 170408R-G	TPMX 170408R-G	TPMX 170408R-G	TPMX 240512R-G
	Screw	CSTB3.5D	CSTB3.5D	CSTB3.5D	CSTB3.5D	CSTB4M
	Wrench	T-9D	T-9D	T-9D	T-9D	T-15D
Pad	Guide pad	PAD-GP10-35-200-DC-SB	PAD-GP10-35-200-DC-SB	PAD-GP14-40-250-DC-SB	PAD-GP14-40-250-DC-SB	PAD-GP14-40-250-DC-SB
		PAD-GP10-35-200-DC-SC	PAD-GP10-35-200-DC-SC	PAD-GP14-40-250-DC-SC	PAD-GP14-40-250-DC-SC	PAD-GP14-40-250-DC-SC
	Screw	CSTB4S	CSTB4S	CSTA5S	CSTA5S	CSTA5S
	Wrench	T-15D	T-15D	T-15D	T-15D	T-15D
	Guide pad protector	PAD-P10	PAD-P10	PAD-P14	PAD-P14	PAD-P14
	Screw	CSTB4S	CSTB4S	CSTA5S	CSTA5S	CSTA5S
	Wrench	T-15D	T-15D	T-15D	T-15D	T-15D
	Sub guide pad	PAD-S08	PAD-S08	PAD-S08	PAD-S10	PAD-S10
	Screw	CSTB3S	CSTB3S	CSTB3S	CSTB3S	CSTB3S
	Wrench	T-9D	T-9D	T-9D	T-9D	T-9D

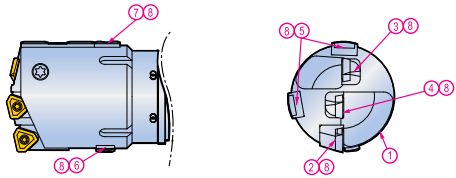

D184


D187


D190

TBTA3 Series

Assembly of TBTA3 series



1. Head shank
2. Outer cartridge
3. Inner cartridge
4. Center cartridge
5. Guide pad
6. Sub guide pad
7. Guide pad protector
8. Lock screw

	Parts	Diameter (mm)			
		78.00-84.99	85.00-91.99	92.00-98.99	99.00-106.99
Cartridge	Outer	PERC 402-43	PERC 402-63	PERC 402-43	PERC 402-63
	Adjust screw	AS0005-15	AS0006-15	AS0005-15	AS0006-15
	Wrench	H2.5	H3	H2.5	H3
	Screw	LS1806RH	LS1806RH	LS1806RH	LS1806RH
	Wrench	H4	H4	H4	H4
	Inner	CENC 402-43	CENC 402-43	CENC 402-63	CENC 402-63
	Screw	LS1206	LS1206	LS1206	LS1206
	Wrench	H3	H3	H3	H3
	Center	CENC 402-43	CENC 402-43	CENC 402-63	CENC 402-63
	Screw	LS1206	LS1206	LS1206	LS1206
	Wrench	H3	H3	H3	H3
Insert	Outer	TPMX 240512R-G	TPMX 280716R-G	TPMX 240512R-G	TPMX 280716R-G
	Screw	CSTB4M	CSTB5	CSTB4M	CSTB5
	Wrench	T-15D	T-20D	T-15D	T-20D
	Inner	TPMX 240512R-G	TPMX 240512R-G	TPMX 280716R-G	TPMX 280716R-G
	Screw	CSTB4M	CSTB4M	CSTB5	CSTB5
	Wrench	T-15D	T-15D	T-20D	T-20D
	Center	TPMX 240512R-G	TPMX 240512R-G	TPMX 280716R-G	TPMX 280716R-G
	Screw	CSTB4M	CSTB4M	CSTB5	CSTB5
	Wrench	T-15D	T-15D	T-20D	T-20D
Pad	Guide pad	PAD-GP14-40-250-DC-SB	PAD-GP14-40-250-DC-SB	PAD-GP14-40-250-DC-SB	PAD-GP18-40-300-DC-SB
		PAD-GP14-40-250-DC-SC	PAD-GP14-40-250-DC-SC	PAD-GP14-40-250-DC-SC	PAD-GP18-40-300-DC-SC
	Screw	CSTA5S	CSTA5S	CSTA5S	LS1206S
	Wrench	T-15D	T-15D	T-15D	H3
	Guide pad protector	PAD-P14	PAD-P14	PAD-P14	PAD-P18
	Screw	CSTB5S	CSTB5S	CSTA5S	LS1206S
	Wrench	T-15D	T-15D	T-15D	H3
	Sub guide pad	PAD-S10	PAD-S10	PAD-S10	PAD-S14
	Screw	CSTB3S	CSTB3S	CSTB3S	CSTA5S
	Wrench	T-9D	T-9D	T-9D	T-15D

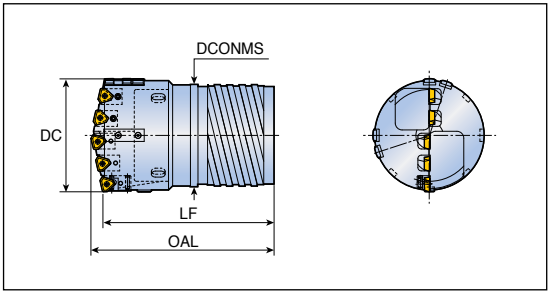
D184 Guide Pad D187 Cartridge D190

ADVANCE MACHINING
TaeguTec Industry 4.0

TBTA5...SE4

Single tube system





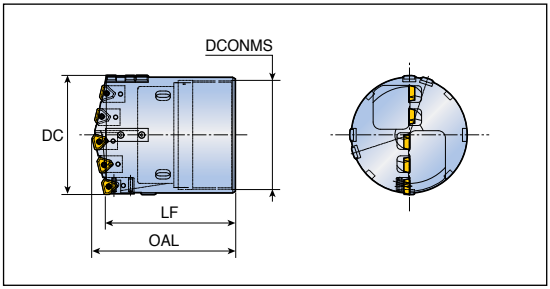
• Outer four start thread

Designation	DC	Dimension (mm)			Tube	
		LF	OAL	DCONMS	Part	Diameter (mm)
TBTA5- xxx.xxSE4-094	107.00-111.99	180	197	89	BTSI 094	94
xxx.xxSE4-106	112.00-123.99	205	221	101	BTSI 106	106
xxx.xxSE4-118	124.00-135.99	205	222	113	BTSI 118	118
xxx.xxSE4-130	136.00-147.99	205	223	125	BTSI 130	130
xxx.xxSE4-142	148.00-159.99	225	245	137	BTSI 142	142
xxx.xxSE4-154	160.00-168.99	225	246	149	BTSI 154	154

TBTA5...SI1

Single tube system





• Inner single start thread

Designation	DC	Dimension (mm)			Tube	
		LF	OAL	DCONMS	Part	Diameter (mm)
TBTA5- xxx.xxSI1-094	107.00-110.99	150	164	90	BTSE 094	94
xxx.xxSI1-106	111.00-122.99	150	165	102	BTSE 106	106
xxx.xxSI1-118	123.00-134.99	150	167	114	BTSE 118	118
xxx.xxSI1-130	135.00-148.99	150	168	126	BTSE 130	130
xxx.xxSI1-142	149.00-161.99	150	170	139	BTSE 142	142
xxx.xxSI1-154	162.00-168.99	190	211	151	BTSE 154	154

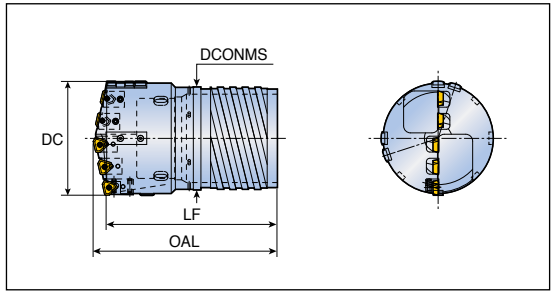
Assembly D107 | Tube D135 | Cutting Condition D216

TBTA5...DE4

TDEEP

Double tube system





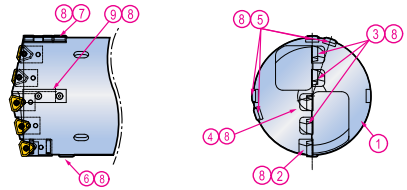
• Outer four start thread

Designation	DC	Dimension (mm)			Tube		
		LF	OAL	DCONMS	Inner Tube	Outer Tube	Diameter (mm)
TBTA5 - xxx.xxDE4-094	107.00-111.99	180	197	89	BTDO 094	BTDI 078	94
xxx.xxDE4-106	112.00-123.99	205	221	101	BTDO 106	BTDI 090	106
xxx.xxDE4-118	124.00-135.99	205	222	113	BTDO 118	BTDI 092	118
xxx.xxDE4-130	136.00-147.99	205	223	125	BTDO 130	BTDI 093	130
xxx.xxDE4-142	148.00-159.99	225	245	137	BTDO 142	BTDI 094	142
xxx.xxDE4-154	160.00-168.99	225	246	149	BTDO 154	BTDI 095	154

Assembly D107 | Tube D135 | Cutting Condition D216

TBTA5 Series

Assembly of TBTA5 series



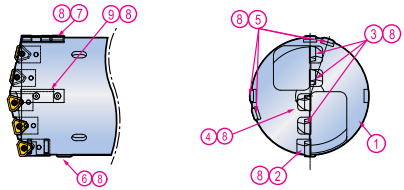
1. Head shank
2. Outer cartridge
3. Inner cartridge
4. Center cartridge
5. Guide pad
6. Sub guide pad
7. Guide pad protector
8. Lock screw
9. Filler

	Parts	Diameter (mm)			
		107.00-117.99	118.00-135.99	136.00-144.99	145.00-150.99
Cartridge	Outer	PERC 402-43	PERC 402-43	PERC 402-43	PERC 402-43
	Adjust screw	AS0005-15	AS0005-15	AS0005-15	AS0005-15
	Wrench	H2.5	H2.5	H2.5	H2.5
	Screw	LS1806RH	LS1806RH	LS1806RH	LS1806RH
	Wrench	H4	H4	H4	H4
	Inner	CENC 402-32	CENC 402-43	CENC 402-43	CENC 402-43
	Screw	CSTA5	LS1206	LS1206	LS1206
	Wrench	T-15D	H3	H3	H3
	Center	CENC 402-43	CENC 402-43	CENC 402-63	CENC 402-63
	Screw	LS1206	LS1206	LS1206	LS1206
	Wrench	H3	H3	H3	H3
Insert	Outer	TPMX 240512R-G	TPMX 240512R-G	TPMX 240512R-G	TPMX 240512R-G
	Screw	CSTB4M	CSTB4M	CSTB4M	CSTB4M
	Wrench	T-15D	T-15D	T-15D	T-15D
	Inner	TPMX 170408R-G	TPMX 240512R-G	TPMX 240512R-G	TPMX 240512R-G
	Screw	CSTB3.5D	CSTB4M	CSTB4M	CSTB4M
	Wrench	T-9D	T-15D	T-15D	T-15D
	Center	TPMX 240512R-G	TPMX 240512R-G	TPMX 280716R-G	TPMX 280716R-G
	Screw	CSTB4M	CSTB4M	CSTB5	CSTB5
	Wrench	T-15D	T-15D	T-20D	T-20D
Pad	Guide pad	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB
		PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC
	Screw	LS1206S	LS1206S	LS1206S	LS1206S
	Wrench	H3	H3	H3	H3
	Guide pad protector	PAD-P18	PAD-P18	PAD-P18	PAD-P18
	Screw	LS1206S	LS1206S	LS1206S	LS1206S
	Wrench	H3	H3	H3	H3
	Sub guide pad	PAD-S14	PAD-S14	PAD-S14	PAD-S14
	Screw	CSTA5S	CSTA5S	CSTA5S	CSTA5S
	Wrench	T-15D	T-15D	T-15D	T-15D

D184 Guide Pad D187 Cartridge D190

TBTA5 Series

Assembly of TBTA5 series



1. Head shank
2. Outer cartridge
3. Inner cartridge
4. Center cartridge
5. Guide pad
6. Sub guide pad
7. Guide pad protector
8. Lock screw
9. Filler

	Parts	Diameter (mm)		
		151.00-156.99	157.00-162.99	163.00-168.99
Cartridge	Outer	PERC 402-63	PERC 402-63	PERC 402-63
	Adjust screw	AS0006-15	AS0006-15	AS0006-15
	Wrench	H3	H3	H3
	Screw	LS1806RH	LS1806RH	LS1806RH
	Wrench	H4	H4	H4
	Inner	CENC 402-43	CENC 402-43	CENC 402-63
	Screw	LS1206	LS1206	LS1206
	Wrench	H3L	H3L	H3L
	Center	CENC 402-63	CENC 402-63	CENC 402-63
	Screw	LS1206S	LS1206S	LS1206S
	Wrench	H3L	H3L	H3L
Insert	Outer	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G
	Screw	CSTB5	CSTB5	CSTB5
	Wrench	T-20D	T-20D	T-20D
	Inner	TPMX 240512R-G	TPMX 240512R-G	TPMX 280716R-G
	Screw	CSTB4M	CSTB4M	CSTB5
	Wrench	T-15D	T-15D	T-20D
	Center	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G
	Screw	CSTB5	CSTB5	CSTB5
	Wrench	T-20D	T-20D	T-20D
Pad	Guide pad	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB
		PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC
	Screw	LS1206S	LS1206S	LS1206S
	Wrench	H3	H3	H3L
	Guide pad protector	PAD-P18	PAD-P18	PAD-P18
	Screw	LS1206S	LS1206S	LS1206S
	Wrench	H3	H3	H3
	Sub guide pad	PAD-S14	PAD-S14	PAD-S14
	Screw	CSTA5S	CSTA5S	CSTA5S
	Wrench	T-15D	T-15D	T-15D

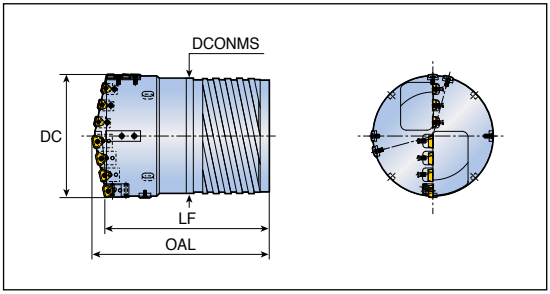
Guide Pad
Cartridge
D184 D187 D190

TBTA7...SE4

TDEEP

Single tube system





- Outer four start thread
- Double tube system also available on request

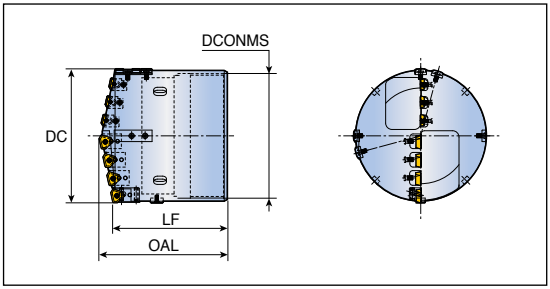
Designation	DC	Dimension (mm)			Tube	
		LF	OAL	DCONMS	Part	Diameter (mm)
TBTA7- xxx.xxSE4-154	169.00-171.99	225	246	149	BTSI 154	154
xxx.xxSE4-166	172.00-183.99	225	247	161	BTSI 166	166
xxx.xxSE4-178	184.00-195.99	245	267	173	BTSI 178	178
xxx.xxSE4-190	196.00-207.99	245	270	185	BTSI 190	190
xxx.xxSE4-202	208.00-219.99	245	271	197	BTSI 202	202
xxx.xxSE4-214	220.00-231.99	265	293	208	BTSI 214	214
xxx.xxSE4-226	232.00-232.99	265	293	220	BTSI 226	226

TBTA7...SI1

TDEEP

Single tube system





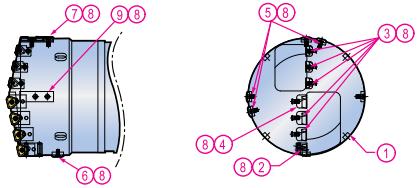
- Inner single start thread

Designation	DC	Dimension (mm)			Tube	
		LF	OAL	DCONMS	Part	Diameter (mm)
TBTA7- xxx.xxSI1-154	169.00-173.99	190	211	151	BTSE 154	154
xxx.xxSI1-166	174.00-185.99	190	213	163	BTSE 166	166
xxx.xxSI1-178	186.00-197.99	190	212	175	BTSE 178	178
xxx.xxSI1-190	198.00-209.99	190	215	187	BTSE 190	190
xxx.xxSI1-202	210.00-221.99	190	217	199	BTSE 202	202
xxx.xxSI1-214	222.00-232.99	190	218	211	BTSE 214	214

Assembly D110 | Tube D135 | Cutting Condition D216

TBTA7 Series

Assembly of TBTA7 series



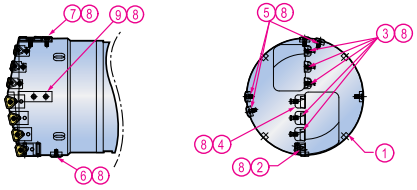
1. Head shank
2. Outer cartridge
3. Inner cartridge
4. Center cartridge
5. Guide pad
6. Sub guide pad
7. Guide pad protector
8. Lock screw
9. Filler

Parts		Diameter (mm)			
		169.00-188.99	189.00-196.99	197.00-202.99	203.00-208.99
Cartridge	Outer	PERC 402-43	PERC 402-43	PERC 402-43	PERC 402-43
	Adjust screw	AS0005-15	AS0005-15	AS0005-15	AS0005-15
	Wrench	H2.5	H2.5	H2.5	H2.5
	Screw	LS1806RH	LS1806RH	LS1806RH	LS1806RH
	Wrench	H4	H4	H4	H4
	Inner	CENC 402-43	CENC 402-43	CENC 402-43	CENC 402-43
	Screw	LS1206	LS1206	LS1206	LS1206
	Wrench	H3L	H3L	H3L	H3L
	Center	CENC 402-43	CENC 402-63	CENC 402-63	CENC 402-63
	Screw	LS1206	LS1206S	LS1206S	LS1206S
	Wrench	H3L	H3L	H3L	H3L
Insert	Outer	TPMX 240512R-G	TPMX 240512R-G	TPMX 240512R-G	TPMX 240512R-G
	Screw	CSTB4M	CSTB4M	CSTB4M	CSTB4M
	Wrench	T-15D	T-15D	T-15D	T-15D
	Inner	TPMX 240512R-G	TPMX 240512R-G	TPMX 240512R-G	TPMX 240512R-G
	Screw	CSTB4M	CSTB4M	CSTB4M	CSTB4M
	Wrench	T-15D	T-15D	T-15D	T-15D
	Center	TPMX 240512R-G	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G
	Screw	CSTB4M	CSTB5	CSTB5	CSTB5
	Wrench	T-15D	T-15D	T-15D	T-15D
Pad	Guide pad	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB
		PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC
	Screw	LS1206S	LS1206S	LS1206S	LS1206S
	Wrench	H3	H3	H3	H3
	Guide pad protector	PAD-P18	PAD-P18	PAD-P18	PAD-P18
	Screw	LS1206S	LS1206S	LS1206S	LS1206S
	Wrench	H3	H3	H3	H3
	Sub guide pad	PAD-S14	PAD-S14	PAD-S14	PAD-S14
	Screw	CSTA5S	CSTA5S	CSTA5S	CSTA5S
	Wrench	T-15D	T-15D	T-15D	T-15D

D184 Guide Pad D187 Cartridge D190

TBTA7 Series

Assembly of TBTA7 series



1. Head shank
2. Outer cartridge
3. Inner cartridge
4. Center cartridge
5. Guide pad
6. Sub guide pad
7. Guide pad protector
8. Lock screw
9. Filler

Parts		Diameter (mm)			
		209.00-214.99	215.00-220.99	221.00-226.99	227.00-232.99
Cartridge	Outer	PERC 402-63	PERC 402-63	PERC 402-63	PERC 402-63
	Adjust screw	AS0006-15	AS0006-15	AS0006-15	AS0005-15
	Wrench	H3	H3	H3	H3
	Screw	L1806RH	L1806RH	L1806RH	LS1806RH
	Wrench	H4	H4	H4	H4
	Inner	CENC 402-43	CENC 402-43	CENC 402-43	CENC 402-63
	Screw	LS1206	LS1206	LS1206	LS1206
	Wrench	H3L	H3L	H3L	H3L
	Center	CENC 402-63	CENC 402-63	CENC 402-63	CENC 402-63
	Screw	LS1206S	LS1206	LS1206	LS1206S
	Wrench	H3L	H3L	H3L	H3L
Insert	Outer	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G
	Screw	CSTB5	CSTB5	CSTB5	CSTB5
	Wrench	T-20D	T-20D	T-20D	T-20D
	Inner	TPMX 240512R-G	TPMX 240512R-G	TPMX 240512R-G	TPMX 280716R-G
	Screw	CSTB4M	CSTB4M	CSTB4M	CSTB5
	Wrench	T-15D	T-15D	T-15D	T-15D
	Center	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G
	Screw	CSTB5	CSTB5	CSTB5	CSTB5
	Wrench	T-20D	T-20D	T-20D	T-20D
Pad	Guide pad	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB
		PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC
	Screw	LS1206S	LS1206S	LS1206S	LS1206S
	Wrench	H3	H3	H3	H3
	Guide pad protector	PAD-P18	PAD-P18	PAD-P18	PAD-P18
	Screw	LS1206S	LS1206S	LS1206S	LS1206S
	Wrench	H3	H3	H3	H3
	Sub guide pad	PAD-S14	PAD-S14	PAD-S14	PAD-S14
	Screw	CSTA5S	CSTA5S	CSTA5S	CSTA5S
	Wrench	T-15D	T-15D	T-15D	T-15D

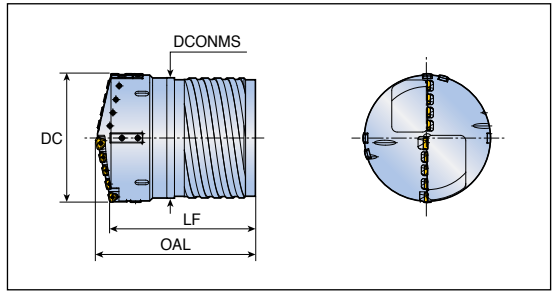
D184 Guide Pad D187 Cartridge D190

TBTA9...SE4

TDEEP

Single tube system





• Outer four start thread

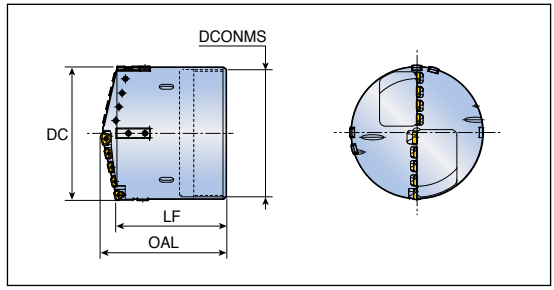
Designation	DC	Dimension (mm)			Tube	
		LF	OAL	DCONMS	Part	Diameter (mm)
TBTA9 - xxx.xxSE4-226	233.00-243.99	265	294	220	BTSI 226	226
xxx.xxSE4-238	244.00-255.99	265	294	232	BTSI 238	238
xxx.xxSE4-250	256.00-267.99	290	322	244	BTSI 250	250
xxx.xxSE4-262	268.00-279.99	290	323	256	BTSI 262	262
xxx.xxSE4-274	280.00-291.99	290	325	268	BTSI 274	274

TBTA9...SI1

TDEEP

Single tube system





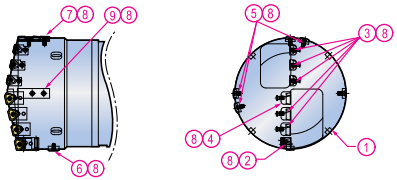
• Inner single start thread

Designation	DC	Dimension (mm)			Tube	
		LF	OAL	DCONMS	Part	Diameter (mm)
TBTA9 - xxx.xxSI1-214	233.00-233.99	190	217	211	BTSE 214	214
xxx.xxSI1-226	234.00-245.99	190	219	223	BTSE 226	226
xxx.xxSI1-238	246.00-257.99	190	221	235	BTSE 238	238
xxx.xxSI1-250	258.00-269.99	210	242	245	BTSE 250	250
xxx.xxSI1-262	270.00-281.99	210	244	259	BTSE 262	262
xxx.xxSI1-274	282.00-293.99	210	245	271	BTSE 274	274

Assembly D113 | Tube D135 | Cutting Condition D216

TBTA9 Series

Assembly of TBTA9 series



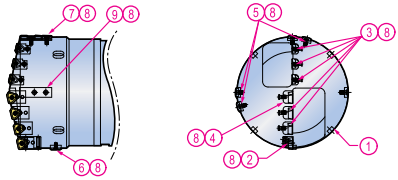
1. Head shank
2. Outer cartridge
3. Inner cartridge
4. Center cartridge
5. Guide pad
6. Sub guide pad
7. Guide pad protector
8. Lock screw
9. Filler

Parts		Diameter (mm)				
		233.00-247.99	248.00-253.99	254.00-258.99	259.00-264.99	265.00-271.99
Cartridge	Outer	PERC 402-43	PERC 402-63	PERC 402-63	PERC 402-63	PERC 402-63
	Adjust screw	AS0005-15	AS0006-15	AS0006-15	AS0006-15	AS0006-15
	Wrench	H2.5	H3	H3	H3	H3
	Screw	LS1806RH	L1806RH	L1806RH	L1806RH	L1806RH
	Wrench	H4	H4	H4	H4	H4
	Inner	CENC 402-43	CENC 402-43	CENC 402-43	CENC 402-43	CENC 402-43
	Screw	LS1206	LS1206	LS1206	LS1206	LS1206
	Wrench	H3L	H3L	H3L	H3L	H3L
	Center	CENC 402-63	CENC 402-63	CENC 402-63	CENC 402-63	CENC 402-63
	Screw	LS1206S	LS1206S	LS1206S	LS1206S	LS1206S
	Wrench	H3L	H3L	H3L	H3L	H3L
Insert	Outer	TPMX 240512R-G	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G
	Screw	CSTB4M	CSTB5	CSTB5	CSTB5	CSTB5
	Wrench	T-15D	T-20D	T-20D	T-20D	T-20D
	Inner	TPMX 240512R-G	TPMX 240512R-G	TPMX 240512R-G	TPMX 240512R-G	TPMX 240512R-G
	Screw	CSTB4M	CSTB4M	CSTB4M	CSTB4M	CSTB4M
	Wrench	T-15D	T-15D	T-15D	T-15D	T-15D
	Center	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G
	Screw	CSTB5	CSTB5	CSTB5	CSTB5	CSTB5
	Wrench	T-20D	T-20D	T-20D	T-20D	T-20D
Pad	Guide pad	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB
		PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC
	Screw	LS1206S	LS1206S	LS1206S	LS1206S	LS1206S
	Wrench	H3	H3	H3	H3	H3
	Guide pad protector	PAD-P18	PAD-P18	PAD-P18	PAD-P18	PAD-P18
	Screw	LS1206S	LS1206S	LS1206S	LS1206S	LS1206S
	Wrench	H3	H3	H3	H3	H3
	Sub guide pad	PAD-S14	PAD-S14	PAD-S14	PAD-S14	PAD-S14
	Screw	CSTA5S	CSTA5S	CSTA5S	CSTA5S	CSTA5S
	Wrench	T-15D	T-15D	T-15D	T-15D	T-15D

D184 Guide Pad D187 Cartridge D190

TBTA9 Series

Assembly of TBTA9 series



1. Head shank
2. Outer cartridge
3. Inner cartridge
4. Center cartridge
5. Guide pad
6. Sub guide pad
7. Guide pad protector
8. Lock screw
9. Filler

Parts		Diameter (mm)			
		272.00-275.99	276.00-284.99	285.00-289.99	290.00-293.99
Cartridge	Outer	PERC 402-63	PERC 402-63	PERC 402-63	PERC 402-63
	Adjust screw	AS0006-15	AS0006-15	AS0006-15	AS0006-15
	Wrench	H3	H3	H3	H3
	Screw	L1806RH	L1806RH	L1806RH	L1806RH
	Wrench	H4	H4	H4	H4
	Inner	CENC 402-63	CENC 402-63	CENC 402-63	CENC 402-63
	Screw	LS1206S	LS1206S	LS1206S	LS1206S
	Wrench	H3L	H3L	H3L	H3L
	Center	CENC 402-63	CENC 402-63	CENC 402-63	CENC 402-63
	Screw	LS1206S	LS1206S	LS1206S	LS1206S
	Wrench	H3L	H3L	H3L	H3L
Insert	Outer	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G
	Screw	CSTB5	CSTB5	CSTB5	CSTB5
	Wrench	T-20D	T-20D	T-20D	T-20D
	Inner	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G
	Screw	CSTB5	CSTB5	CSTB5	CSTB5
	Wrench	T-20D	T-20D	T-20D	T-20D
	Center	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G
	Screw	CSTB5	CSTB5	CSTB5	CSTB5
	Wrench	T-20D	T-20D	T-20D	T-20D
Pad	Guide pad	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB
		PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC
	Screw	LS1206S	LS1206S	LS1206S	LS1206S
	Wrench	H3	H3	H3	H3
	Guide pad protector	PAD-P18	PAD-P18	PAD-P18	PAD-P18
	Screw	LS1206S	LS1206S	LS1206S	LS1206S
	Wrench	H3	H3	H3	H3
	Sub guide pad	PAD-S14	PAD-S14	PAD-S14	PAD-S14
	Screw	CSTA5S	CSTA5S	CSTA5S	CSTA5S
	Wrench	T-15D	T-15D	T-15D	T-15D

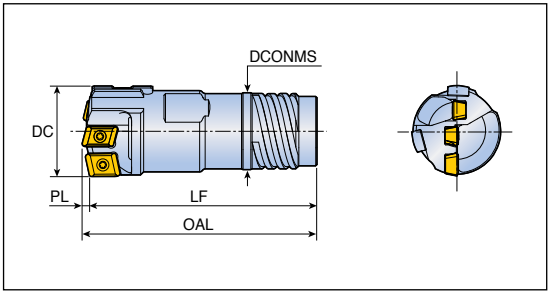
D184 Guide Pad D187 Cartridge D190

TBTA-FB...SE4

TDEEP

Single tube system





• Outer four start thread

Designation	DC	Dimension (mm)				Tube	
		LF	OAL	DCONMS	PL	Part	Diameter (mm)
TBTA-FB xx.xxSE4-22	25.00-26.40	70	73	19.5	3	BTSI 022	22
xx.xxSE4-24	26.41-28.70	70	73	21.0	3	BTSI 024	24
xx.xxSE4-26	28.71-31.00	75	78	23.5	3	BTSI 026	26
xx.xxSE4-28	31.01-33.30	75	78	25.5	3	BTSI 028	28
xx.xxSE4-30	33.31-36.20	80	83	28.0	3	BTSI 030	30
xx.xxSE4-33	36.21-39.60	90	93	30.0	3	BTSI 033	33
xx.xxSE4-36	39.61-43.00	95	99	33.0	4	BTSI 036	36
xx.xxSE4-39	43.01-47.00	100	104	36.0	4	BTSI 039	39
xx.xxSE4-43	47.01-51.70	100	104	39.0	4	BTSI 043	43
xx.xxSE4-47	51.71-56.20	110	114	43.0	4	BTSI 047	47
xx.xxSE4-51	56.21-60.60	115	120	47.0	5	BTSI 051	51
xx.xxSE4-51	60.61-65.00	115	120	47.0	5	BTSI 051	51
xx.xxSE4-56A	60.61-65.00	115	120	51.0	5	BTSI 056A	56
xx.xxSE4-56B	65.01-66.99	141	149	52.0	8	BTSI 056B	56
xx.xxSE4-62	67.00-72.99	141	149	58.0	8	BTSI 062	62
xx.xxSE4-68	73.00-79.99	141	150	63.0	9	BTSI 068	68
xx.xxSE4-75	80.00-86.99	164	173	70.0	9	BTSI 075	75
xx.xxSE4-82	87.00-89.00	164	173	77.0	9	BTSI 082	82

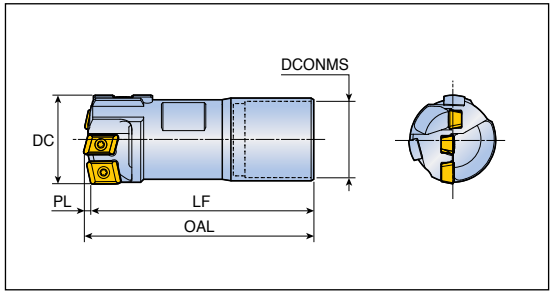
Assembly D118 | Tube D135 | Cutting Condition D218

• Insert and guide pad are sold separately from drill body.

TBTA-FB...SI1

Single tube system





• Inner single start thread

Designation		DC	Dimension (mm)				Tube	
			LF	OAL	DCONMS	PL	Part	Diameter (mm)
TBTA-FB	**xx.xxSI1-22**	25.00-26.99	70	73	20	3	BTSE 022	22
	xx.xxSI1-24	27.00-29.00	70	73	22	3	BTSE 024	24
	xx.xxSI1-24	29.01-29.99	70	73	22	3	BTSE 024	24
	xx.xxSI1-26	30.00-31.99	75	78	24	3	BTSE 026	26
	xx.xxSI1-28	32.00-33.99	75	78	26	3	BTSE 028	28
	xx.xxSI1-30	34.00-36.99	90	93	27	3	BTSE 030	30
	xx.xxSI1-33	37.00-39.99	95	98	30	3	BTSE 033	33
	xx.xxSI1-36	40.00-43.99	100	104	33	4	BTSE 036	36
	xx.xxSI1-39	44.00-46.99	105	109	37	4	BTSE 039	39
	xx.xxSI1-43	47.00-51.99	105	109	41	4	BTSE 043	43
	xx.xxSI1-47	52.00-56.99	110	114	44	4	BTSE 047	47
	xx.xxSI1-51	57.00-60.99	115	120	49	5	BTSE 051	51
	xx.xxSI1-56	61.00-65.00	115	120	53	5	BTSE 056	56
	xx.xxSI1-56	65.01-67.99	104	112	53	8	BTSE 056	56
	xx.xxSI1-62	68.00-74.99	104	113	59	9	BTSE 062	62
	xx.xxSI1-68	75.00-80.99	134	143	65	9	BTSE 068	68
	xx.xxSI1-75	81.00-89.00	134	143	71	9	BTSE 075	75

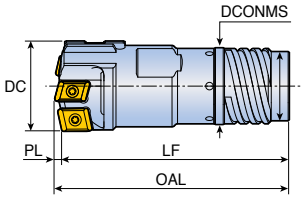
Assembly D118 | Tube D135 | Cutting Condition D218

• Insert and guide pad are sold separately from drill body.

TBTA-FB...DE4

Double tube system





• Outer four start thread

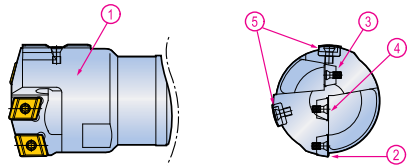
Designation	DC	Dimension (mm)				Tube		
		LF	OAL	DCONMS	PL	Outer tube	Inner tube	Diameter (mm)
TBTA-FB xx.xxDE4-23.5	25.00-26.40	70	73	21.0	3	BTDO 023.5	BTDI 016	23.5
xx.xxDE4-26	26.41-28.70	75	78	23.5	3	BTDO 026	BTDI 018	26.0
xx.xxDE4-28	28.71-31.00	75	78	25.5	3	BTDO 028	BTDI 020	28.0
xx.xxDE4-30.5	31.01-33.30	80	83	28.0	3	BTDO 030.5	BTDI 022	30.5
xx.xxDE4-33	33.31-36.20	90	93	30.0	3	BTDO 033	BTDI 024	33.0
xx.xxDE4-35.5	36.21-39.60	95	99	33.0	4	BTDO 035.5	BTDI 026	35.5
xx.xxDE4-39	39.61-43.00	100	104	36.0	4	BTDO 039	BTDI 029	39.0
xx.xxDE4-42.5	43.01-47.00	100	104	39.0	4	BTDO 042.5	BTDI 032	42.5
xx.xxDE4-46.5	47.01-51.70	110	114	43.0	4	BTDO 046.5	BTDI 035	46.5
xx.xxDE4-51	51.71-56.20	115	120	47.5	5	BTDO 051	BTDI 039	51.0
xx.xxDE4-55.5	56.21-65.00	115	120	51.0	5	BTDO 055.5	BTDI 043A	55.5

Assembly D118 | Tube D135 | Cutting Condition D218

• Insert and guide pad are sold separately from drill body.

TBTA-FB Series

Assembly of TBTA-FB series



1. Head shank
2. Outer insert
3. Inner insert
4. Center insert
5. Guide pad

	Parts	Diameter (mm)			
		25.00-28.00	28.01-29.99	30.00-35.00	35.01-38.00
Insert	PER	NPHT 060304R-G-P	NPHT 060304R-G-P	NPHT 080404R-G-P	NPHT 080404R-G-P
	Screw	CSTB2.2	CSTB2.2	SR 14-560-HG	SR 14-560-HG
	Wrench	T-7F	T-7F	T-8F	T-8F
	INT	NPMT 060304R-G-I	NPMT 060304R-G-I	NPMT 070404R-G-I	NPMT 070404R-G-I
	Screw	CSTB2.2	CSTB2.2	SR 14-560-HG	SR 14-560-HG
	Wrench	T-7F	T-7F	T-8F	T-8F
	CEN	NPMT 060308L-G-C	NPMT 070408L-G-C	NPMT 070408L-G-C	NPMT 080480L-G-C
	Screw	CSTB2.2	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG
	Wrench	T-7F	T-8F	T-8F	T-8F
Pad	PAD	PAD-GP06-20-120-DC-SB	PAD-GP06-20-120-DC-SB	PAD-GP07-20-120-DC-SB	PAD-GP07-20-120-DC-SB
		PAD-GP06-20-120-DC-SC	PAD-GP06-20-120-DC-SC	PAD-GP07-20-120-DC-SC	PAD-GP07-20-120-DC-SC
	Screw	CSTB2.2S	CSTB2.2S	CSTB3S	CSTB3S
	Wrench	T-7F	T-7F	T-9F	T-9F

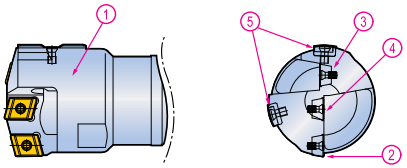
	Parts	Diameter (mm)			
		38.01-39.00	39.01-41.00	41.01-44.00	44.01-45.00
Insert	PER	NPHT 090404R-G-P	NPHT 090404R-G-P	NPHT 090404R-G-P	NPHT 090404R-G-P
	Screw	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG
	Wrench	T-8F	T-8F	T-8F	T-8F
	INT	NPMT 070404R-G-I	NPMT 070404R-G-I	NPMT 080404R-G-I	NPMT 080404R-G-I
	Screw	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG
	Wrench	T-8F	T-8F	T-8F	T-8F
	CEN	NPMT 080408L-G-C	NPMT 080408L-G-C	NPMT 080408L-G-C	NPMT 080480L-G-C
	Screw	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG
	Wrench	T-8F	T-8F	T-8F	T-8F
Pad	PAD	PAD-GP07-20-120-DC-SB	PAD-GP08-25-155-DC-SB	PAD-GP08-25-155-DC-SB	PAD-GP08-25-155-DC-SB
		PAD-GP07-20-120-DC-SC	PAD-GP08-25-155-DC-SC	PAD-GP08-25-155-DC-SC	PAD-GP08-25-155-DC-SC
	Screw	CSTB3S	CSTB3S	CSTB3S	CSTB3S
	Wrench	T-9F	T-9F	T-9F	T-9F

D181 Guide Pad D188

• Insert and guide pad are sold separately from drill body.

TBTA-FB Series

Assembly of TBTA-FB series



1. Head shank
2. Outer insert
3. Inner insert
4. Center insert
5. Guide pad

	Parts	Diameter (mm)			
		45.01-47.00	47.01-51.00	51.01-54.00	54.01-57.00
Insert	PER	NPHT 090404R-G-P	NPHT 110404R-G-P	NPHT 110404R-G-P	NPHT 110404R-G-P
	Screw	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG
	Wrench	T-8F	T-8F	T-8F	T-8F
	INT	NPMT 080404R-G-I	NPMT 080404R-G-I	NPMT 100404R-G-I	NPMT 100404R-G-I
	Screw	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG
	Wrench	T-8F	T-8F	T-8F	T-8F
	CEN	NPMT 100408L-G-C	NPMT 100408L-G-C	NPMT 100408L-G-C	NPMT 130408L-G-C
	Screw	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG
	Wrench	T-8F	T-8F	T-8F	T-8F
Pad	PAD	PAD-GP10-30-200-DC-SB	PAD-GP10-30-200-DC-SB	PAD-GP10-30-200-DC-SB	PAD-GP10-30-200-DC-SB
		PAD-GP10-30-200-DC-SC	PAD-GP10-30-200-DC-SC	PAD-GP10-30-200-DC-SC	PAD-GP10-30-200-DC-SC
	Screw	CSTB3.5	CSTB3.5	CSTB3.5	CSTB3.5
	Wrench	T-10/5	T-10/5	T-10/5	T-10/5

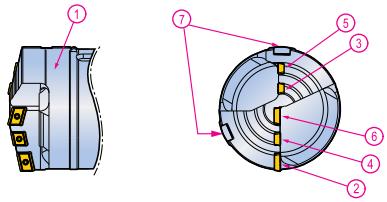
	Parts	Diameter (mm)		
		57.01-60.00	60.01-64.00	64.01-65.00
Insert	PER	NPHT 110404R-G-P	NPHT 130404R-G-P	NPHT 130404R-G-P
	Screw	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG
	Wrench	T-8F	T-8F	T-8F
	INT	NPMT 100404R-G-I	NPMT 100404R-G-I	NPMT 130404R-G-I
	Screw	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG
	Wrench	T-8F	T-8F	T-8F
	CEN	NPMT 130408L-G-C	NPMT 130408L-G-C	NPMT 130408L-G-C
	Screw	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG
	Wrench	T-8F	T-8F	T-8F
Pad	PAD	PAD-GP12-35-250-DC-SB	PAD-GP12-35-250-DC-SB	PAD-GP12-35-250-DC-SB
		PAD-GP12-35-250-DC-SC	PAD-GP12-35-250-DC-SC	PAD-GP12-35-250-DC-SC
	Screw	CSTB3.5	CSTB3.5	CSTB3.5
	Wrench	T-10/5	T-10/5	T-10/5

D181 Guide Pad D188

• Insert and guide pad are sold separately from drill body.

TBTA-FB Series

Assembly of TBTA-FB series



1. Head shank
2. Outer insert
3. Inner insert 1
4. Inner insert 2
5. Inner insert 3
6. Center insert
7. Guide pad

	Parts	Diameter (mm)		
		65.01-71.00	71.01-83.00	83.01-89.00
Insert	PER	NPHT 110404R-G-P	NPHT 130404R-G-P	NPHT 130404R-G-P
	Screw	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG
	Wrench	T-8F	T-8F	T-8F
	INT	NPMT 080404R-G-I	NPMT 080404R-G-I	NPMT 080404R-G-I
	Screw	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG
	Wrench	T-8F	T-8F	T-8F
	INT2	NPMT 080404R-G-I	NPMT 080404R-G-I	NPMT 100404R-G-I
	Screw	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG
	Wrench	T-8F	T-8F	T-8F
	INT3	NPMT 070404R-G-I	NPMT 080404R-G-I	NPMT 080404R-G-I
	Screw	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG
	Wrench	T-8F	T-8F	T-8F
	CEN	NPMT 100408L-G-C	NPMT 100408L-G-C	NPMT 130408L-G-C
	Screw	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG
	Wrench	T-8F	T-8F	T-8F
Pad	PAD	PAD-GP12-35-250-DC-SB	PAD-GP12-35-250-DC-SB	PAD-GP12-35-250-DC-SB
		PAD-GP12-35-250-DC-SC	PAD-GP12-35-250-DC-SC	PAD-GP12-35-250-DC-SC
	Screw	CSTB3.5	CSTB3.5	CSTB3.5
	Wrench	T-10/5	T-10/5	T-10/5

D181 Guide Pad D188

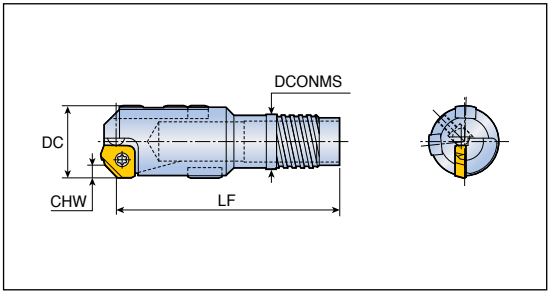
• Insert and guide pad are sold separately from drill body.

ADVANCE MACHINING
TaeguTec Industry 4.0

TBTA-R...SE4

Single tube system





• Outer four start thread

Designation	DC	CHW	Dimension (mm)		Tube	
			LF	DCONMS	Part	Diameter (mm)
TBTA-R xxx.xxSE4-22	25.00-26.40	2.8	72.5	19.5	BTSI 022	22
xxx.xxSE4-24	26.41-28.70	2.8	72.5	21.0	BTSI 024	24
xxx.xxSE4-26	28.71-31.00	2.8	72.5	23.5	BTSI 026	26
xxx.xxSE4-28	31.01-33.30	2.8	75.5	25.5	BTSI 028	28
xxx.xxSE4-30	33.31-36.20	2.8	75.5	28.0	BTSI 030	30
xxx.xxSE4-33	36.21-39.60	2.8	90.5	30.0	BTSI 033	33
xxx.xxSE4-36	39.61-39.99	2.8	90.5	33.0	BTSI 036	36

Assembly D124 | Tube D135 | Cutting Condition D216

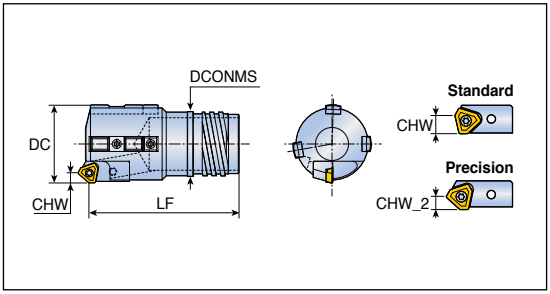
TaeguTec Member IMC Group

TBTA-R...SE4

TDEEP

Single tube system





- Outer four start thread

Designation	DC	CHW (mm)		Dimension (mm)		Tube	
		Standard	Precision	LF	DCONMS	Part	Diameter (mm)
TBTA-R xxx.xxSE4-36	40.00-43.00	6.4	4	90	33.0	BTSI 036	36
xxx.xxSE4-39	43.01-47.00	6.4	4	95	36.0	BTSI 039	39
xxx.xxSE4-43	47.01-51.70	6.4	4	95	39.0	BTSI 043	43
xxx.xxSE4-47	51.71-56.20	6.4/7.2	4/4.8	100	43.0	BTSI 047	47
xxx.xxSE4-51	56.21-60.60	7.2	4.8	110	47.0	BTSI 051	51
xxx.xxSE4-56A	60.61-65.00	7.2	4.8	110	51.0	BTSI 056A	56
xxx.xxSE4-56B	65.00-66.99	7.2	4.8	150	52.0	BTSI 056B	56
xxx.xxSE4-62	67.00-72.99	10.4	6.4	150	58.0	BTSI 062	62
xxx.xxSE4-68	73.00-79.99	10.4	6.4	150	63.0	BTSI 068	68
xxx.xxSE4-75	80.00-86.99	10.4	6.4	180	70.0	BTSI 075	75
xxx.xxSE4-82	87.00-99.99	10.4	6.4	180	77.0	BTSI 082	82

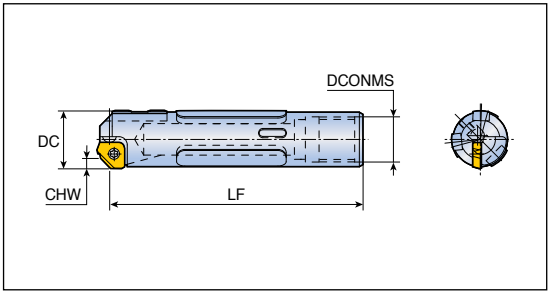
Assembly D124 | Tube D135 | Cutting Condition D216

TBTA-R...SI1

TDEEP

Single tube system





• Inner single start thread

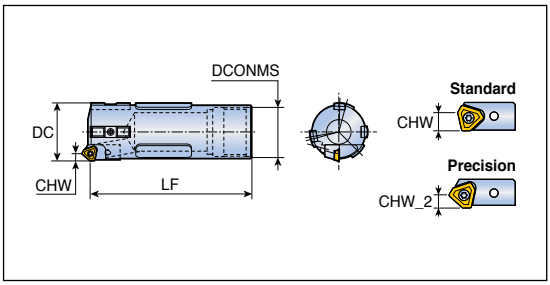
Designation		DC	CHW (mm)	Dimension (mm)		Tube	
				LF	DCONMS	Part	Diameter (mm)
TBTA-R-	**xxx.xxSI1-22**	25.00-26.99	2.8	110.5	20	BTSE 022	22
	xxx.xxSI1-24	27.00-29.99	2.8	110.5	22	BTSE 024	24
	xxx.xxSI1-26	30.00-31.99	2.8	110.5	24	BTSE 026	26
	xxx.xxSI1-28	32.00-33.99	2.8	110.5	26	BTSE 028	28
	xxx.xxSI1-30	34.00-36.99	2.8	135.5	27	BTSE 030	30
	xxx.xxSI1-33	37.00-39.99	2.8	135.5	30	BTSE 033	33

TBTA-R...SI1

TDEEP

Single tube system





• Inner single start thread

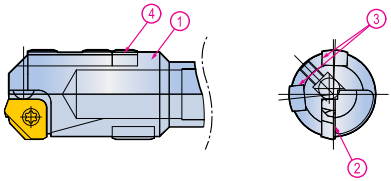
Designation		DC	CHW (mm)		Dimension (mm)		Tube	
			Standard	Precision	LF	DCONMS	Part	Diameter (mm)
TBTA-R-	**xxx.xxSI1-36**	40.00-43.99	6.4	4	135	33	BTSE 036	36
	xxx.xxSI1-39	44.00-46.99	6.4	4	135	37	BTSE 039	39
	xxx.xxSI1-43	47.00-51.99	6.4	4	145	41	BTSE 043	43
	xxx.xxSI1-47	52.00-56.99	7.2	4.8	145	44	BTSE 047	47
	xxx.xxSI1-51	57.00-60.99	7.2	4.8	170	49	BTSE 051	51
	xxx.xxSI1-56	61.00-67.99	7.2/10.4	4.8/6.4	170	53	BTSE 056	56
	xxx.xxSI1-62	68.00-74.99	10.4	6.4	170	59	BTSE 062	62
	xxx.xxSI1-68	75.00-80.99	10.4	6.4	205	65	BTSE 068	68
	xxx.xxSI1-75	81.00-90.99	10.4	6.4	215	71	BTSE 075	75
	xxx.xxSI1-82	91.00-98.99	10.4	6.4	225	79	BTSE 082	82
	xxx.xxSI1-94	99.00-110.99	10.4	6.4	235	90	BTSE 094	94

Assembly D124 | Tube D135 | Cutting Condition D216

TaeguTec

TBTA-R Series

Assembly of TBTA-R series



1. Head shank
2. Insert
3. Guide pad
4. Guide pad protector

Parts			Diameter (mm)			
			25.00-27.99	28.00-29.99	30.00-37.99	38.00-39.99
Close tolerance	Cartridge	Adjust ball	BALL5	BALL5	BALL5	BALL5
		Adjust screw	AS0005-5	AS0005-5	AS0005-5	AS0005-5
		Wrench	H2.5	H2.5	H2.5	H2.5
		Screw	-	-	-	-
		Wrench	-	-	-	-
	Insert	Insert	XPMT 16002-45	XPMT 16002-45	XPMT 16002-45	XPMT 16002-45
		Screw	CSTANO3	CSTANO3	CSTANO3	CSTANO3
		Wrench	T-9D	T-9D	T-9D	T-9D
Normal tolerance	Cartridge	Outer	-	-	-	-
		Adjust screw	-	-	-	-
		Wrench	-	-	-	-
		Screw	-	-	-	-
		Wrench	-	-	-	-
	Insert	Insert	XPMT 16002-45	XPMT 16002-45	XPMT 16002-45	XPMT 16002-45
		Screw	CSTANO3	CSTANO3	CSTANO3	CSTANO3
		Wrench	T9	T9	T9	T9
Pad		Guide pad (A)	PAD-GP06-20-120-DC-SB	PAD-GP06-20-120-DC-SB	PAD-GP07-20-120-DC-SB	PAD-GP08-25-155-DC-SB
			PAD-GP06-20-120-DC-SC	PAD-GP06-20-120-DC-SC	PAD-GP07-20-120-DC-SC	PAD-GP08-25-155-DC-SC
		Screw	CSTB2.2S	CSTB2.2S	CSTB3S	CSTB3S
		Wrench	T-9D	T-9D	T-9D	T-9D
		Guide pad protector (B)	PAD-P08-120	PAD-P08-120	PAD-P08-140	PAD-P08
		Screw	CSTB3S	CSTB3S	CSTB3S	CSTB3S
		Wrench	T-9D	T-9D	T-9D	T-9D
		Resin guide pad (C)	PAD-R10	PAD-R10	PAD-R12	PAD-R15
		Screw	LS0902, 5-6	LS0902, 5-6	LS0903-8	LS0904-10
		Wrench	-	-	H2	H2.5

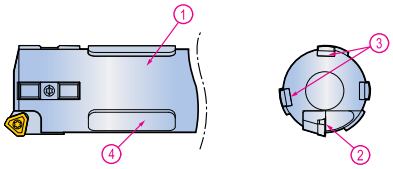
D186 Guide Pad D189 Cartridge D191

- A + B is for outer four start thread connection type
- A + C is for inner single start thread connection type

ADVANCE MACHINING
TaeguTec Industry 4.0

TBTA-R Series

Assembly of TBTA-R series



1. Head shank
2. Cartridge & lock screw
3. Guide pad
4. Resin guide pad & lock screw

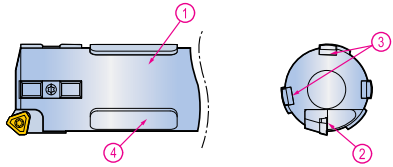
Parts			Diameter (mm)			
			40.00-45.99	46.00-51.99	52.00-56.99	57.00-59.99
Close tolerance	Cartridge	Outer	PERC-P 04R	PERC-P 04R	PERC-P 32R	PERC-P 32R
		Adjust screw	AS0004-8	AS0004-8	AS0005-10	AS0005-10
		Wrench	H2	H2	H2.5	H2.5
		Screw	LS1803.5RH	LS1803.5RH	LS1805RH	LS1805RH
		Wrench	H2.5	H2.5	H3	H3
	Insert	Insert	TPMX 1403LG	TPMX 1403LG	TPMX 1704LG	TPMX 1704LG
		Screw	CSTB2.5	CSTB2.5	CSTB3.5D	CSTB3.5D
		Wrench	T-8D	T-8D	T-8D	T-8D
Normal tolerance	Cartridge	Outer	PERC 402-04	PERC 402-04	PERC 402-32	PERC 402-32
		Adjust screw	AS0004-8	AS0004-8	AS0005-10	AS0005-10
		Wrench	H2	H2	H2.5	H2.5
		Screw	LS1803.5RH	LS1803.5RH	LS1805RH	LS1805RH
		Wrench	H2.5	H2.5	H3	H3
	Insert	Insert	TPMX 140308R-G	TPMX 140308R-G	TPMX 170408R-G	TPMX 170408R-G
		Screw	CSTB2.5	CSTB2.5	CSTB3.5D	CSTB3.5D
		Wrench	T-8D	T-8D	T-8D	T-8D
Pad		Guide pad (A)	PAD-GP08-25-155-DC-SB	PAD-GP10-30-200-DC-SB	PAD-GP10-30-200-DC-SB	PAD-GP14-40-250-DC-SB
			PAD-GP08-25-155-DC-SC	PAD-GP10-30-200-DC-SC	PAD-GP10-30-200-DC-SC	PAD-GP14-40-250-DC-SC
		Screw	CSTB3S	CSTB3.5	CSTB3.5	CSTA5S
		Wrench	T-9D	T-15D	T-15D	T-15D
		Guide pad protector (B)	PAD-P08	PAD-P10	PAD-P10	PAD-P14
		Screw	CSTB3S	CSTB4S	CSTB4S	CSTA5S
		Wrench	T-9D	T-15D	T-15D	T-15D
		Resin guide pad (C)	PAD-R15	PAD-R15	PAD-R15	PAD-R20
		Screw	LS0904-10	LS0904-10	LS0904-10	LS0905-12
		Wrench	H2.5	H2.5	H2.5	H3

D186 Guide Pad D189 Cartridge D191

- A + B is for outer four start thread connection type
- A + C is for inner single start thread connection type

TBTA-R Series

Assembly of TBTA-R series



1. Head shank
2. Cartridge & lock screw
3. Guide pad
4. Resin guide pad & lock screw

Parts			Diameter (mm)			
			60.00-80.99	81.00-90.99	91.00-99.99	100.00-122.99
Close tolerance	Cartridge	Outer	PERC-P 43R	PERC-P 43R	PERC-P 43R	PERC-P 43R
		Adjust screw	AS0005-15	AS0005-15	AS0005-15	AS0005-15
		Wrench	H2.5	H2.5	H2.5	H2.5
		Screw	LS1806RH	LS1806RH	LS1806RH	LS1806RH
		Wrench	H4	H4	H4	H4
	Insert	Insert	TPMX 2405LG	TPMX 2405LG	TPMX 2405LG	TPMX 2405LG
		Screw	CSTB4M	CSTB4M	CSTB4M	CSTB4M
		Wrench	T-15D	T-15D	T-15D	T-15D
Normal tolerance	Cartridge	Outer	PERC 402-43	PERC 402-43	PERC 402-43	PERC 402-43
		Adjust screw	AS0005-15	AS0005-15	AS0005-15	AS0005-15
		Wrench	H2.5	H2.5	H2.5	H2.5
		Screw	LS1806RH	LS1806RH	LS1806RH	LS1806RH
		Wrench	H4	H4	H4	H4
	Insert	Insert	TPMX 240512R-G	TPMX 170408R-G	TPMX 170408R-G	TPMX 170408R-G
		Screw	CSTB4M	CSTB4M	CSTB4M	CSTB4M
		Wrench	T-15D	T-15D	T-15D	T-15D
Pad		Guide pad (A)	PAD-GP14-40-250-DC-SB	PAD-GP14-40-250-DC-SB	PAD-GP14-40-250-DC-SB	PAD-GP18-40-300-DC-SB
			PAD-GP14-40-250-DC-SC	PAD-GP14-40-250-DC-SC	PAD-GP14-40-250-DC-SC	PAD-GP18-40-300-DC-SC
		Screw	CSTA5S	CSTA5S	CSTA5S	LS1206S
		Wrench	T-15D	T-15D	T-15D	H3
		Guide pad protector (B)	PAD-P14	PAD-P14	PAD-P14	PAD-P18
		Screw	CSTA5S	CSTA5S	CSTA5S	LS1206S
		Wrench	T-15D	T-15D	T-15D	H3
		Resin guide pad (C)	PAD-R20	PAD-R30	PAD-R35	PAD-R35
		Screw	LS0905-12	LS0906-15	LS0906-15	LS0906-15
		Wrench	H3	H4	H4	H4

D186 Guide Pad D189 Cartridge D191

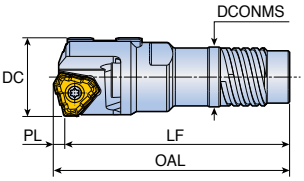
- A + B is for outer four start thread connection type
- A + C is for inner single start thread connection type

ADVANCE MACHINING
TaeguTec Industry 4.0

TBTA-TR…SE4

Single tube system





• Outer four start thread

Designation		DC	Dimension (mm)				Tube	
			LF	OAL	DCONMS	PL	Part	Diameter (mm)
TBTA-	**TRxx.xxSE4-14**	16.00-16.70	55.0	57.2	12.6	2.2	BTSI 014	14
	TRxx.xxSE4-15	16.71-17.70	55.0	57.2	13.6	2.2	BTSI 015	15
	TRxx.xxSE4-16	17.71-18.90	56.0	59.0	14.5	3.0	BTSI 016	16
	TRxx.xxSE4-17	18.91-20.00	56.0	59.0	15.5	3.0	BTSI 017	17
	TRxx.xxSE4-18	20.01-21.80	60.0	63.2	16.0	3.2	BTSI 018	18
	TRxx.xxSE4-20	21.81-21.99	63.5	66.7	18.0	3.2	BTSI 020	20
	TRxx.xxSE4-20	22.00-24.10	65.5	68.9	18.0	3.4	BTSI 020	20
	TRxx.xxSE4-22	24.11-26.40	65.5	69.1	19.5	3.6	BTSI 022	22
	TRxx.xxSE4-24	26.41-28.00	65.6	69.1	21.0	3.6	BTSI 024	24
	TRxx.xxSE4-24	28.01-28.70	70.0	74.6	21.0	4.6	BTSI 024	24
	TRxx.xxSE4-26	28.71-29.99	75.0	79.6	23.5	4.6	BTSI 026	26
	TRxx.xxSE4-26	30.00-31.00	75.0	79.6	23.5	4.6	BTSI 026	26
	TRxx.xxSE4-28	31.01-32.00	75.0	79.6	25.5	4.6	BTSI 028	28
	TRxx.xxSE4-28	32.01-33.30	74.5	79.9	25.5	5.4	BTSI 028	28
	TRxx.xxSE4-30	33.31-36.20	79.5	84.9	28.0	5.4	BTSI 030	30
	TRxx.xxSE4-33	36.21-39.00	89.5	94.9	30.0	5.4	BTSI 033	33
	TRxx.xxSE4-33	39.01-39.60	89.5	94.9	30.0	5.4	BTSI 033	33
	TRxx.xxSE4-36	39.61-40.00	94.5	99.9	33.0	5.4	BTSI 036	36

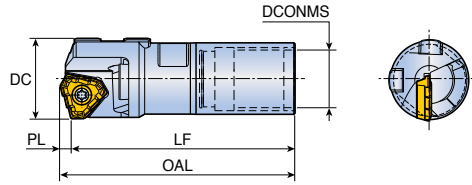
Assembly D130 | Tube D135 | Cutting Condition D222

• Insert and guide pad are sold separately from drill body.

TBTA-TR…SI1

Single tube system





• Inner single start thread

	Designation	DC	Dimension (mm)				Tube	
			LF	OAL	DCONMS	PL	Part	Diameter (mm)
TBTA-	**TR16.00SI1-13A**	16.00	53.5	55.7	10.8	2.2	BTSE 013A	13
	TRxx.xxSI1-13B	16.01-16.50	53.5	55.7	11.1	2.2	BTSE 013B	13
	TRxx.xxSI1-14A	16.51-17.25	53.5	55.7	11.8	2.2	BTSE 014A	14
	TRxx.xxSI1-14B	17.26-18.00	53.5	55.7	12.1	2.2	BTSE 014B	14
	TRxx.xxSI1-15	18.01-19.00	53.5	56.5	12.8	3.0	BTSE 015	15
	TRxx.xxSI1-16.5	19.01-19.99	53.5	56.7	13.8	3.2	BTSE 016.5	16.5
	TRxx.xxSI1-18	20.00-21.99	58.0	61.2	14.5	3.2	BTSE 018	18
	TRxx.xxSI1-20	22.00-24.99	60.0	63.4	16.0	3.4	BTSE 020	20
	TRxx.xxSI1-22	25.00-25.99	60.0	63.5	17.0	3.5	BTSE 022	22
	TRxx.xxSI1-22	26.00-26.99	65.0	68.5	17.0	3.5	BTSE 022	22
	TRxx.xxSI1-24	27.00-28.00	65.0	68.5	19.0	3.5	BTSE 024	24
	TRxx.xxSI1-24	28.01-29.99	70.0	74.6	22.0	4.6	BTSE 024	24
	TRxx.xxSI1-26	30.00-31.99	75.0	79.6	24.0	4.6	BTSE 026	26
	TRxx.xxSI1-28	32.00	75.0	79.6	26.0	4.6	BTSE 028	28
	TRxx.xxSI1-28	32.01-33.99	74.5	79.9	26.0	5.4	BTSE 028	28
	TRxx.xxSI1-30	34.00-36.99	89.5	94.9	27.0	5.4	BTSE 030	30
	TRxx.xxSI1-33	37.00-39.00	94.5	99.9	30.0	5.4	BTSE 033	33
	TRxx.xxSI1-33	39.01-39.99	94.5	99.9	30.0	5.4	BTSE 033	33
	TRxx.xxSI1-36	40.00	99.5	104.9	33.0	5.4	BTSE 036	36

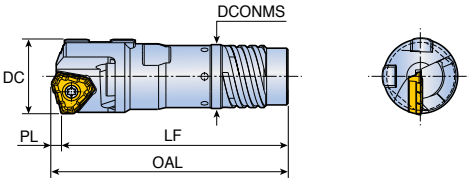
Assembly D130 | Tube D135 | Cutting Condition D222

• Insert and guide pad are sold separately from drill body.

TBTA-TR…DE4

Double tube system





• Outer four start thread

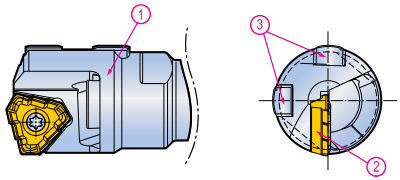
Designation		DC	Dimension (mm)				Tube	
			LF	OAL	DCONMS	PL	Part	Diameter (mm)
TBTA-	**TRxx.xxDE4-18**	18.40-20.00	59.0	62.0	16.0	3.0	BTDO 018	18
	TRxx.xxDE4-19.5	20.01-21.80	63.5	66.7	18.0	3.2	BTDO 019.5	19.5
	TRxx.xxDE4-21.5	21.81-21.99	63.5	66.7	19.5	3.2	BTDO 021.5	21.5
	TRxx.xxDE4-21.5	22.00-24.10	65.5	68.9	19.5	3.4	BTDO 021.5	21.5
	TRxx.xxDE4-23.5	24.11-25.00	65.5	68.9	21.0	3.4	BTDO 023.5	23.5
	TRxx.xxDE4-23.5	25.01-26.40	65.5	71.1	21.0	3.6	BTDO 023.5	23.5
	TRxx.xxDE4-26	26.41-28.00	70.5	74.1	23.5	3.6	BTDO 026	26
	TRxx.xxDE4-26	28.01-28.70	75.0	79.6	23.5	4.6	BTDO 026	26
	TRxx.xxDE4-28	28.71-29.99	75.0	79.6	25.5	4.6	BTDO 026	28
	TRxx.xxDE4-28	30.00-31.00	75.0	79.6	25.5	4.6	BTDO 028	28
	TRxx.xxDE4-30.5	31.01-32.00	80.0	84.6	28.0	4.6	BTDO 030.5	30.5
	TRxx.xxDE4-30.5	32.01-33.30	79.5	84.9	28.0	5.4	BTDO 030.5	30.5
	TRxx.xxDE4-33	33.31-36.20	89.5	94.9	30.0	5.4	BTDO 033	33
	TRxx.xxDE4-35.5	36.21-39.00	94.5	99.9	33.0	5.4	BTDO 035.5	35.5
	TRxx.xxDE4-35.5	39.01-39.60	94.5	99.9	33.0	5.4	BTDO 035.5	35.5
	TRxx.xxDE4-39	39.61-40.00	99.5	104.9	36.0	5.4	BTDO 039	39

Assembly D130 | Tube D135 | Cutting Condition D222

• Insert and guide pad are sold separately from drill body.

TBTA-TR Series

Assembly of TBTA-TR series



1. Head shank
2. Insert
3. Guide pad

	Parts	Diameter (mm)		
		16.00-18.00	18.01-20.00	20.01-21.00
Insert	Insert	TOGT 080305 RS	TOGT 090305 RS	TOGT 100305 RS
	Screw	SR 14-560/S	CSTB2.5S*	CSTB3S*
	Wrench	T-8F	T-8F	T-9F
Guide Pad	Guide Pad	PAD-GP05-18-075-DC-SB	PAD-GP06-20-085-DC-SB	PAD-GP06-20-085-DC-SB
		PAD-GP05-18-075-DC-SC	PAD-GP06-20-085-DC-SC	PAD-GP06-20-085-DC-SC
	Screw	SR 34-508	CSTB2.2S*	CSTB2.2S*
	Wrench	T-7F	T-7F	T-7F

	Parts	Diameter (mm)		
		21.01-21.99	22.00-25.00	25.01-28.00
Insert	Insert	TOGT 100305 RS	TOGT 110405 RS	TOGT 120405 RS
	Screw	CSTB3S*	CSTB3.5H*	CSTB4S*
	Wrench	T-9F	T-15F	T-15F
Guide Pad	Guide Pad	PAD-GP06-20-100-DC-SB	PAD-GP06-20-100-DC-SB	PAD-GP06-20-120-DC-SB
		PAD-GP06-20-100-DC-SC	PAD-GP06-20-100-DC-SC	PAD-GP06-20-120-DC-SC
	Screw	CSTB2.2S*	CSTB2.2S*	CSTB2.2S*
	Wrench	T-7F	T-7F	T-7F

	Parts	Diameter (mm)			
		28.01-29.99	30.00-32.00	32.01-39.00	39.01-40.00
Insert	Insert	TOGT 130408 RS	TOGT 130408 RS	TOGT 140510 RS	TOGT 140510 RS
	Screw	SR 16-212/L10	SR 16-212/L10	SR 16-212/L10	SR 16-212/L10
	Wrench	T-20/5	T-20/5	T-20/5	T-20/5
Guide Pad	Guide Pad	PAD-GP06-20-120-DC-SB	PAD-GP07-20-120-DC-SB	PAD-GP07-20-120-DC-SB	PAD-GP08-25-155-DC-SB
		PAD-GP06-20-120-DC-SC	PAD-GP07-20-120-DC-SC	PAD-GP07-20-120-DC-SC	PAD-GP08-25-155-DC-SC
	Screw	SR 34-508	CSTB-3L065	CSTB-3S	CSTB-3S
	Wrench	T-7F	T-9F	T-9F	T-9F

D185 Guide Pad D188

• Insert and guide pad are sold separately from drill body.

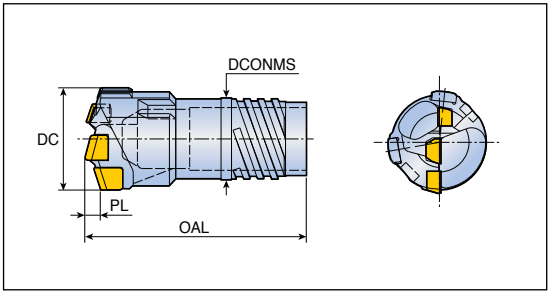
ADVANCE MACHINING
TaeguTec Industry 4.0

BTA...SE2/SE4

TDEEP

Single tube system





• Outer four start thread

Designation	DC	Dimension (mm)			Tube	
		OAL	PL	DCONMS	Part	Diameter (mm)
BTA xxx.xx SE2-11*	12.60-13.10	43.0	1.1	9.6	BTSI011	11
xxx.xx SE2-11*	13.11-13.60	43.0	1.1	9.6	BTSI011	11
xxx.xx SE2-12*	13.61-14.10	43.0	1.2	10.6	BTSI012	12
xxx.xx SE2-12*	14.11-14.60	43.0	1.2	10.6	BTSI012	12
xxx.xx SE2-13*	14.61-15.10	43.0	1.3	11.6	BTSI013	13
xxx.xx SE2-13*	15.11-15.59	43.0	1.3	11.6	BTSI013	13
xxx.xx SE4-14	15.60-16.20	43.0	2.7	12.6	BTSI014	14
xxx.xx SE4-14	16.21-16.70	43.0	2.7	12.6	BTSI014	14
xxx.xx SE4-15	16.71-17.20	43.0	2.7	13.6	BTSI015	15
xxx.xx SE4-15	17.21-17.70	43.0	2.7	13.6	BTSI015	15
xxx.xx SE4-16	17.71-18.40	47.0	2.8	14.5	BTSI016	16
xxx.xx SE4-16	18.41-18.90	47.0	2.9	14.5	BTSI016	16
xxx.xx SE4-17	18.91-19.20	47.0	2.9	15.5	BTSI017	17
xxx.xx SE4-17	19.21-20.00	47.0	2.9	15.5	BTSI017	17
xxx.xx SE4-18	20.01-20.90	52.5	3.2	16.0	BTSI018	18
xxx.xx SE4-18	20.91-21.80	52.5	3.2	16.0	BTSI018	18
xxx.xx SE4-20	21.81-22.90	56.0	3.2	18.0	BTSI020	20
xxx.xx SE4-20	22.91-24.10	56.0	3.2	18.0	BTSI020	20
xxx.xx SE4-22	24.11-25.20	57.5	3.5	19.5	BTSI022	22
xxx.xx SE4-22	25.21-26.40	57.5	3.5	19.5	BTSI022	22
xxx.xx SE4-24	26.41-27.50	57.5	3.7	21.0	BTSI024	24
xxx.xx SE4-24	27.51-28.70	57.5	3.7	21.0	BTSI024	24
xxx.xx SE4-26	28.71-29.80	63.5	4.0	23.5	BTSI026	26
xxx.xx SE4-26	29.81-31.00	63.5	4.0	23.5	BTSI026	26
xxx.xx SE4-28	31.01-32.10	63.5	4.3	25.5	BTSI028	28
xxx.xx SE4-28	32.11-33.30	63.5	4.3	25.5	BTSI028	28
xxx.xx SE4-30	33.31-34.80	63.5	4.5	28.0	BTSI030	30
xxx.xx SE4-30	34.81-36.20	63.5	4.5	28.0	BTSI030	30
xxx.xx SE4-33	36.21-37.30	73.5	4.8	30.0	BTSI033	33
xxx.xx SE4-33	37.31-38.40	73.5	4.8	30.0	BTSI033	33
xxx.xx SE4-33	38.41-39.60	73.5	4.8	30.0	BTSI033	33
xxx.xx SE4-36	39.61-40.60	73.5	5.6	33.0	BTSI036	36
xxx.xx SE4-36	40.61-41.80	73.5	5.6	33.0	BTSI036	36
xxx.xx SE4-36	41.81-43.00	73.5	5.6	33.0	BTSI036	36
xxx.xx SE4-39	43.01-44.30	75.0	5.4	36.0	BTSI039	39

Tube D135 | Cutting Condition D220

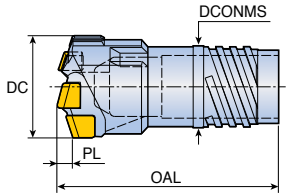
• '*' 2 cutting edge head, 2 start thread

TaeguTec

BTA...SE4

Single tube system





• Outer four start thread

Designation	DC	Dimension (mm)			Tube	
		OAL	PL	DCONMS	Part	Diameter (mm)
BTA xxx.xx SE4-39	44.31-45.60	75.0	5.4	36.0	BTSI039	39
xxx.xx SE4-39	45.61-47.00	75.0	5.4	36.0	BTSI039	39
xxx.xx SE4-43	47.01-48.50	75.0	6.1	39.0	BTSI043	43
xxx.xx SE4-43	48.51-50.10	75.0	6.1	39.0	BTSI043	43
xxx.xx SE4-43	50.11-51.70	75.0	6.1	39.0	BTSI043	43
xxx.xx SE4-47	51.71-53.20	82.0	6.5	43.0	BTSI047	47
xxx.xx SE4-47	53.21-54.70	82.0	6.5	43.0	BTSI047	47
xxx.xx SE4-47	54.71-56.20	82.0	6.5	43.0	BTSI047	47
xxx.xx SE4-51	56.21-58.40	84.0	6.6	47.0	BTSI051	51
xxx.xx SE4-51	58.41-60.60	84.0	6.6	47.0	BTSI051	51
xxx.xx SE4-51	60.61-62.80	84.0	7.0	47.0	BTSI051	51
xxx.xx SE4-51	62.81-65.00	84.0	7.0	47.0	BTSI051	51
xxx.xx SE4-56	60.61-62.80	84.0	7.0	51.0	BTSI056	56
xxx.xx SE4-56	62.81-65.00	84.0	7.0	51.0	BTSI056	56

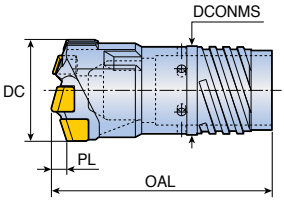
Tube D135 | Cutting Condition D220

BTA...DE4

TDEEP

Double tube system





• Outer four start thread

Designation	DC	Dimension (mm)			Tube		
		OAL	PL	DCONMS	Outer tube	Inner tube	Diameter (mm)
BTA xxx.xx DE4-18	18.41-19.20	50.0	2.9	16.0	BTDO018	BTDI012	18.0
xxx.xx DE4-18	19.21-20.00	50.0	2.9	16.0	BTDO018	BTDI012	18.0
xxx.xx DE4-19.5	20.01-20.90	56.0	3.2	18.0	BTDO019.5	BTDI014	19.5
xxx.xx DE4-19.5	20.91-21.80	56.0	3.2	18.0	BTDO019.5	BTDI014	19.5
xxx.xx DE4-21.5	21.81-22.90	56.0	3.2	19.5	BTDO021.5	BTDI015	21.5
xxx.xx DE4-21.5	22.91-24.10	56.0	3.2	19.5	BTDO021.5	BTDI015	21.5
xxx.xx DE4-23.5	24.11-25.20	57.5	3.5	21.0	BTDO023.5	BTDI016	23.5
xxx.xx DE4-23.5	25.21-26.40	57.5	3.5	21.0	BTDO023.5	BTDI016	23.5
xxx.xx DE4-26	26.41-27.50	60.5	3.7	23.5	BTDO026	BTDI018	26.0
xxx.xx DE4-26	27.51-28.70	60.5	3.7	23.5	BTDO026	BTDI018	26.0
xxx.xx DE4-28	28.71-29.80	63.5	4.0	25.5	BTDO028	BTDI020	28.0
xxx.xx DE4-28	29.81-31.00	63.5	4.0	25.5	BTDO028	BTDI020	28.0
xxx.xx DE4-30.5	31.01-32.10	63.5	4.1	28.0	BTDO030.5	BTDI022	30.5
xxx.xx DE4-30.5	32.11-33.30	63.5	4.1	28.0	BTDO030.5	BTDI022	30.5
xxx.xx DE4-33	33.31-34.80	70.5	4.5	30.0	BTDO033.0	BTDI024	33.0
xxx.xx DE4-33	34.81-36.20	70.5	4.5	30.0	BTDO033.0	BTDI024	33.0
xxx.xx DE4-35.5	36.21-37.30	73.5	4.8	33.0	BTDO035.5	BTDI026	35.5
xxx.xx DE4-35.5	37.31-38.40	73.5	4.8	33.0	BTDO035.5	BTDI026	35.5
xxx.xx DE4-35.5	38.41-39.60	73.5	4.8	33.0	BTDO035.5	BTDI026	35.5
xxx.xx DE4-39	39.61-40.60	73.5	5.3	36.0	BTDO039	BTDI029	39.0
xxx.xx DE4-39	40.61-41.80	73.5	5.3	36.0	BTDO039	BTDI029	39.0
xxx.xx DE4-39	41.81-43.00	73.5	5.3	36.0	BTDO039	BTDI029	39.0
xxx.xx DE4-42.5	43.01-44.30	75.0	5.5	39.0	BTDO042.5	BTDI032	42.5
xxx.xx DE4-42.5	44.31-45.60	75.0	5.5	39.0	BTDO042.5	BTDI032	42.5
xxx.xx DE4-42.5	45.61-47.00	75.0	5.5	39.0	BTDO042.5	BTDI032	42.5
xxx.xx DE4-46.5	47.01-48.50	79.0	6.1	43.0	BTDO046.5	BTDI035	46.5
xxx.xx DE4-46.5	48.51-50.10	79.0	6.1	43.0	BTDO046.5	BTDI035	46.5
xxx.xx DE4-46.5	50.11-51.70	79.0	6.1	43.0	BTDO046.5	BTDI035	46.5
xxx.xx DE4-51	51.71-53.20	82.0	6.5	47.0	BTDO051	BTDI039	51.0
xxx.xx DE4-51	53.21-54.70	82.0	6.5	47.0	BTDO051	BTDI039	51.0
xxx.xx DE4-51	54.71-56.20	82.0	6.5	47.0	BTDO051	BTDI039	51.0
xxx.xx DE4-55.5	56.21-58.40	84.0	6.6	51.0	BTDO055.5	BTDI043A	55.5
xxx.xx DE4-55.5	58.41-60.60	84.0	6.6	51.0	BTDO055.5	BTDI043A	55.5
xxx.xx DE4-55.5	60.61-62.80	84.0	6.6	51.0	BTDO055.5	BTDI043A	55.5
xxx.xx DE4-55.5	62.81-65.00	84.0	6.6	51.0	BTDO055.5	BTDI043A	55.5

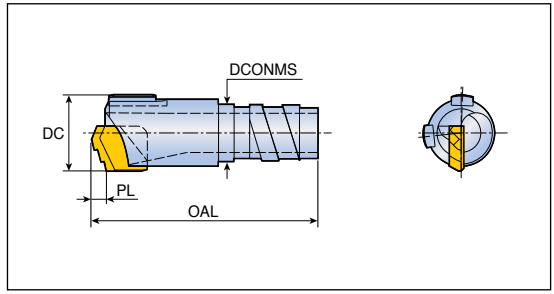
Tube D135
Cutting Condition D220

BTS...SE1

TDEEP

Single tube system





• Outer single start thread

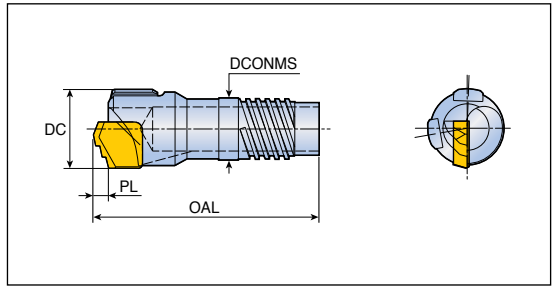
Designation	DC	Dimension (mm)			Tube	
		OAL	PL	DCONMS	Part	Diameter (mm)
BTS xxx.xx SE1-7.1	8.00-8.99	34	2.0	6.0	BTSO071	7.1
xxx.xx SE1-8.3	9.00-9.99	34	2.0	7.2	BTSO083	8.3
xxx.xx SE1-9	10.00-10.99	34	2.2	7.6	BTSO090	9.0
xxx.xx SE1-10	11.00-11.99	34	2.2	8.6	BTSO100	10.0
xxx.xx SE1-11	12.00-13.49	34	2.3	9.1	BTSO110	11.0
xxx.xx SE1-12	13.50-14.79	34	2.4	10.8	BTSO120	12.0

BTS...SE2/SE4

TDEEP

Single tube system





• Outer four start thread

Designation	DC	Dimension (mm)			Tube	
		OAL	PL	DCONMS	Part	Diameter (mm)
BTS xxx.xx SE2-11*	12.60-13.60	40	2.3	9.6	BTSI011	11
xxx.xx SE2-12*	13.61-14.60	40	2.4	10.6	BTSI012	12
xxx.xx SE2-13*	14.61-15.59	40	3.0	11.6	BTSI013	13
xxx.xx SE4-14	15.60-16.70	40	2.4	12.6	BTSI014	14
xxx.xx SE4-15	16.71-17.70	40	3.0	13.6	BTSI015	15
xxx.xx SE4-16	17.71-18.90	40	3.3	14.5	BTSI016	16
xxx.xx SE4-17	18.91-20.00	40	3.3	15.5	BTSI017	17

Tube D135 | Cutting Condition D220

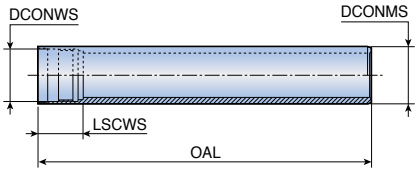
• '*' Designates outer two start thread

ADVANCE MACHINING TaeguTec Industry 4.0

BTSI

Single tube





• Inner four start thread

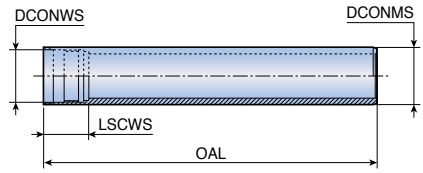
Designation	DC	Dimension (mm)		
		DCONMS	DCONWS	LSCWS
BTSI 011 *	12.60-13.60	11.0	9.6	22
012 *	13.61-14.60	12.0	10.6	22
013 *	14.61-15.59	13.0	11.6	22
014	15.60-16.70	14.0	12.6	21
015	16.71-17.70	15.0	13.6	21
016	17.71-18.90	16.0	14.5	22
017	18.91-20.00	17.0	15.5	22
018	20.01-21.80	18.0	16.0	27.5
020	21.81-24.10	20.0	18.0	30
022	24.11-26.40	22.0	19.5	30
024	26.41-28.70	24.0	21.0	30
026	28.71-31.00	26.0	23.5	33
028	31.01-33.30	28.0	25.5	33
030	33.31-36.20	30.0	28.0	33
033	36.21-39.60	33.0	30.0	40
036	39.61-43.00	36.0	33.0	40
039	43.01-47.00	39.0	36.0	40
043	47.01-51.70	43.0	39.0	40
047	51.71-56.20	47.0	43.0	44

• Please indicate overall length (OAL) when ordering
• '*' Indicates parts are inner two start thread

BTSI

Single tube





• Inner four start thread

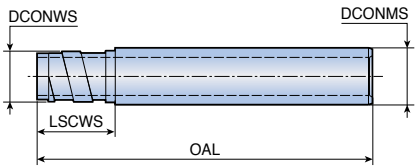
Designation	DC	Dimension (mm)		
		DCONMS	DCONWS	LSCWS
BTSI 051	56.21-60.60	51.0	47.0	44
056A	60.61-65.00	56.0	51.0	44
056B	65.00-66.99	56.0	52.0	75
062	67.00-72.99	62.0	58.0	75
068	73.00-79.99	68.0	63.0	75
075	80.00-86.99	75.0	70.0	97
082	87.00-99.99	82.0	77.0	97
094	100.00-111.99	94.0	89.0	97
106	112.00-123.99	106.0	101.0	118
118	124.00-135.99	118.0	113.0	118
130	136.00-147.99	130.0	125.0	118
142	148.00-159.99	142.0	137.0	139
154	160.00-171.99	154.0	149.0	139
166	172.00-183.99	166.0	161.0	139
178	184.00-195.99	178.0	173.0	144
190	196.00-207.99	190.0	185.0	144
202	208.00-219.99	202.0	197.0	144
214	220.00-231.99	214.0	208.0	164
226	232.00-243.99	226.0	220.0	164
238	244.00-255.99	238.0	232.0	164
250	256.00-267.99	250.0	244.0	184
262	268.00-279.99	262.0	256.0	184
274	280.00-291.99	274.0	268.0	184

• Please indicate overall length (OAL) when ordering

BTSE

Single tube





• Outer single start thread

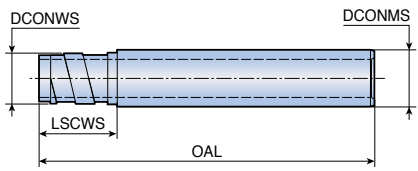
Designation		DC	Dimension (mm)		
			DCONMS	DCONWS	LSCWS
BTSE	**012A**	14.50-15.00	12.0	11.5	23
	012B	15.01-15.50	12.0	11.8	23
	013A	15.51-16.00	13.0	12.4	23
	013B	16.01-16.50	13.0	12.7	23
	014A	16.51-17.25	14.0	13.4	23
	014B	17.26-18.00	14.0	13.7	23
	015	18.01-19.00	15.0	14.4	23
	016.5	19.01-19.99	16.5	15.4	23
	018	20.00-21.99	18.0	16.5	26
	020	22.00-24.99	20.0	19.0	26
	022	25.00-26.99	22.0	20.0	26
	024	27.00-29.99	24.0	22.0	26
	026	30.00-31.99	26.0	24.0	26
	028	32.00-33.99	28.0	26.0	26
	030	34.00-36.99	30.0	27.0	41
	033	37.00-39.99	33.0	30.0	41
	036	40.00-43.99	36.0	33.0	41
	039	44.00-46.99	39.0	37.0	41
	043	47.00-51.99	43.0	41.0	41

• Please indicate overall length (OAL) when ordering

BTSE / BTSO

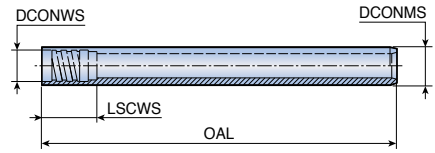
TDEEP

Single tube



BTSE

Outer single start thread



BTSO

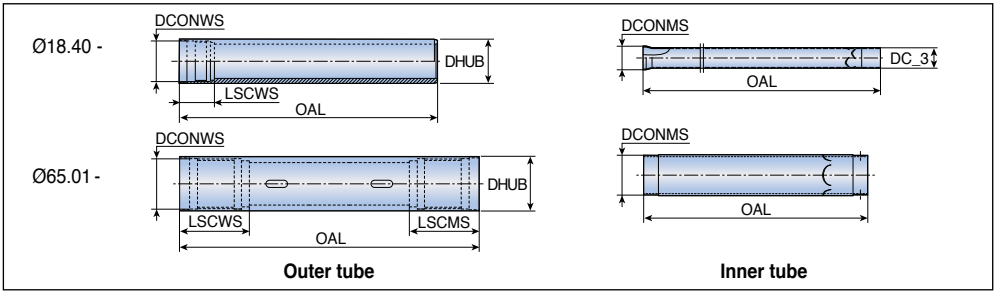
Inner single start thread

Designation		DC	Dimension (mm)			
			DCONMS	DCONWS		LSCWS
BTSE	**047**	52.00-56.99	47.0	44	-	41
	051	57.00-60.99	51.0	49	-	41
	056	61.00-67.99	56.0	53	-	41
	062	68.00-74.99	62.0	59	-	41
	068	75.00-80.99	68.0	65	-	71
	075	81.00-90.99	75.0	71	-	71
	082	91.00-98.99	82.0	79	-	71
	094	99.00-110.99	94.0	90	-	71
	106	111.00-122.99	106.0	102	-	71
	118	123.00-134.99	118.0	114	-	71
	130	135.00-148.99	130.0	126	-	71
	142	149.00-161.99	142.0	139	-	71
	154	162.00-173.99	154.0	151	-	86
	166	174.00-185.99	166.0	163	-	86
	178	186.00-197.99	178.0	175	-	86
	190	198.00-209.99	190.0	187	-	86
	202	210.00-221.99	202.0	199	-	86
	214	222.00-233.99	214.0	211	-	86
	226	234.00-245.99	226.0	223	-	86
	238	246.00-257.99	238.0	235	-	86
	250	258.00-269.99	250.0	247	-	121
	262	270.00-281.99	262.0	259	-	121
	274	282.00-293.99	274.0	271	-	121
BTSO	**071**	8.00-8.99	7.1	-	6.0	13.5
	083	9.00-9.99	8.3	-	7.2	13.5
	090	10.00-10.99	9.0	-	7.6	13.5
	100	11.00-11.99	10.0	-	8.6	13.5
	110	12.00-13.49	11.0	-	9.1	13.5
	120	13.50-14.79	12.0	-	10.8	13.5

• Please indicate overall length (OAL) when ordering

BTDO / BTDI

Double tube

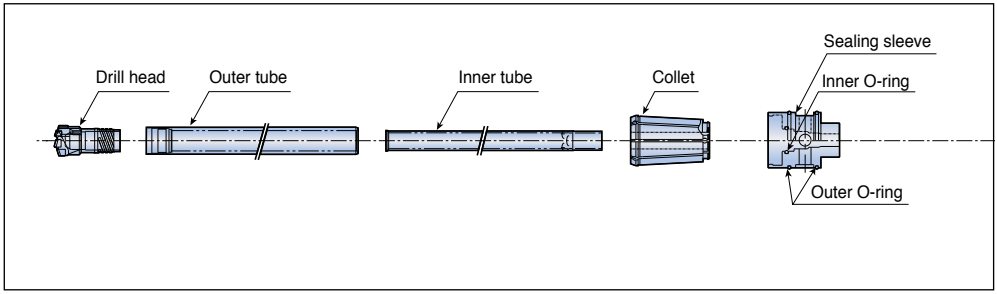


Outer tube **Inner tube**

DC	Outer tube	Dimension (mm)			Inner tube	Dimension (mm)	
		DHUB	DCONWS	LSCWS		DCONMS	DC_3
18.40-20.00	**BTDO 018**	18.0	16	27.5	**BTDI 012**	12	10
20.01-21.80	**019.5**	19.5	18	30	**014**	14	12
21.81-24.10	**021.5**	21.5	19.5	30	**015**	15	13
24.11-26.40	**023.5**	23.5	21	30	**016**	16	14
26.41-28.70	**026**	26.0	23.5	33	**018**	18	16
28.71-31.00	**028**	28.0	25.5	33	**020**	20	18
31.01-33.30	**030.5**	30.5	28	33	**022**	22	20
33.31-36.20	**033**	33.0	30	40	**024**	24	22
36.21-39.60	**035.5**	35.5	33	40	**026**	26	24
39.61-43.00	**039**	39.0	36	40	**029**	29	27
43.01-47.00	**042.5**	42.5	39	40	**032**	32	30
47.01-51.70	**046.5**	46.5	43	44	**035**	35	32
51.71-56.20	**051**	51.0	47	44	**039**	39	36
56.21-65.00	**055.5**	55.5	51	44	**043A**	43	40
65.01-69.99	**056**	56.0	52	75	**043B**	40	-
70.00-72.99	**062**	62.0	58	75	**048**	44	-
73.00-79.99	**068**	68.0	63	75	**053**	48	-
80.00-86.99	**075**	75.0	70	97	**059**	54	-
87.00-99.99	**082**	82.0	77	97	**066**	60	-
100.00-111.99	**094**	94.0	89	97	**078**	70	-
112.00-123.99	**106**	106.0	101	118	**090**	80	-
124.00-135.99	**118**	118.0	113	118	**092**	80	-
136.00-147.99	**130**	130.0	125	118	**104**	95	-
148.00-159.99	**142**	142.0	137	139	**116**	100	-
160.00-171.99	**154**	154.0	149	139	**128**	120	-
172.00-183.99	**166**	166.0	161	139	**138**	130	-

• Please indicate overall length (OAL) when ordering
- For diameter range 18.40 - 65.00 (BTDO 055.5) the inner tube should be ordered 30mm longer than outer tube
- For diameter range 65.01 - 123.99 (BTDO 056 - BTDO 106) the inner tube should be ordered 190mm longer than outer tube
- For diameter range 124.00 - 183.99 (BTDO 118 - BTDO 166) the inner tube should be ordered 220mm longer than outer tube

Assembly of Double Tube System

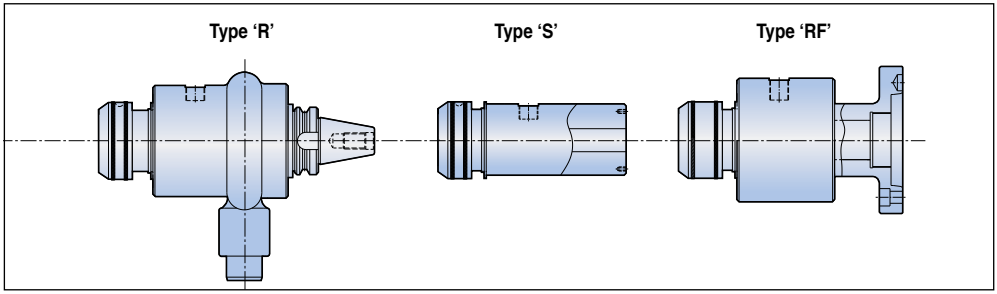


Designation		DC	Collet
BTDO 018	**BTDI 012**	18.40-19.20	COLLET 4-18
018	**012**	19.21-20.00	COLLET 4-18
019.5	**014**	20.01-20.90	COLLET 4-19.5
019.5	**014**	20.91-21.80	COLLET 4-19.5
021.5	**015**	21.81-22.90	COLLET 4-21.5
021.5	**015**	22.91-24.10	COLLET 4-21.5
023.5	**016**	24.11-25.20	COLLET 4-23.5
023.5	**016**	25.21-26.40	COLLET 4-23.5
026	**018**	26.41-27.50	COLLET 4-26
026	**018**	27.51-28.70	COLLET 4-26
028	**020**	28.71-29.80	COLLET 4-28
028	**020**	29.81-31.00	COLLET 4-28
030.5	**022**	31.01-32.10	COLLET 4-30.5
030.5	**022**	32.11-33.30	COLLET 4-30.5
033	**024**	33.31-34.80	COLLET 4-33
033	**024**	34.81-36.20	COLLET 4-33
035.5	**026**	36.21-37.30	COLLET 4-35.5
035.5	**026**	37.31-38.40	COLLET 4-35.5
035.5	**026**	38.41-39.60	COLLET 4-35.5
039	**029**	39.61-40.60	COLLET 4-39
039	**029**	40.61-41.80	COLLET 4-39
039	**029**	41.81-43.00	COLLET 4-39
042.5	**032**	43.01-44.30	COLLET 4-42.5
042.5	**032**	44.31-45.60	COLLET 4-42.5
042.5	**032**	45.61-47.00	COLLET 4-42.5
046.5	**035**	47.01-48.50	COLLET 4-46.5
046.5	**035**	48.51-50.10	COLLET 4-46.5
046.5	**035**	50.11-51.70	COLLET 4-46.5
051	**039**	51.71-53.20	COLLET 4-51
051	**039**	53.21-54.70	COLLET 4-51
051	**039**	54.71-56.20	COLLET 4-51
055.5	**043A**	56.21-58.40	COLLET 4-55.5
055.5	**043A**	58.41-60.60	COLLET 4-55.5
055.5	**043A**	60.61-62.80	COLLET 4-55.5
055.5	**043A**	62.81-65.00	COLLET 4-55.5

• Inner tube should be longer than outer tube. Please refer to page D135-D136 for details

Assembly of Double Tube System

Connector

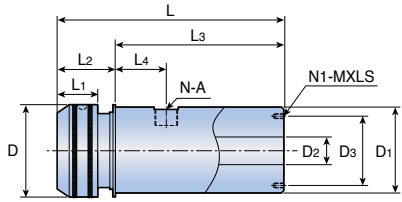


Sealing sleeve	Outer O-ring	Inner O-ring	Connector
SEALING SLEEVE 4R-18	OOR 25.24	IOR18	DTC-4S/4R/4RF
SEALING SLEEVE 4R-18		IOR18	
SEALING SLEEVE 4R-19.5		IOR19.5	
SEALING SLEEVE 4R-19.5		IOR19.5	
SEALING SLEEVE 4R-21.5		IOR21.5	
SEALING SLEEVE 4R-21.5		IOR21.5	
SEALING SLEEVE 4R-23.5		IOR23.5	
SEALING SLEEVE 4R-23.5		IOR23.5	
SEALING SLEEVE 4R-26		IOR26	
SEALING SLEEVE 4R-26		IOR26	
SEALING SLEEVE 4R-28		IOR28	
SEALING SLEEVE 4R-28		IOR28	
SEALING SLEEVE 4R-30.5		IOR30.5	
SEALING SLEEVE 4R-30.5		IOR30.5	
SEALING SLEEVE 4R-33		IOR33	
SEALING SLEEVE 4R-33		IOR33	
SEALING SLEEVE 4R-35.5	OOR65	IOR35.5	
SEALING SLEEVE 4R-35.5		IOR35.5	
SEALING SLEEVE 4R-35.5		IOR35.5	
SEALING SLEEVE 4R-39		IOR39	
SEALING SLEEVE 4R-39		IOR39	
SEALING SLEEVE 4R-39		IOR39	
SEALING SLEEVE 4R-42.5		IOR42.5	
SEALING SLEEVE 4R-42.5		IOR42.5	
SEALING SLEEVE 4R-42.5		IOR42.5	
SEALING SLEEVE 4R-46.5		IOR46.5	
SEALING SLEEVE 4R-46.5		IOR46.5	
SEALING SLEEVE 4R-46.5		IOR46.5	
SEALING SLEEVE 4R-51		IOR51	
SEALING SLEEVE 4R-51		IOR51	
SEALING SLEEVE 4R-51		IOR51	
SEALING SLEEVE 4R-55.5		IOR55.5	
SEALING SLEEVE 4R-55.5		IOR55.5	
SEALING SLEEVE 4R-55.5		IOR55.5	
SEALING SLEEVE 4R-55.5		IOR55.5	

• Inner tube should be longer than outer tube. Please refer to page D135-D136 for details

DTC-S

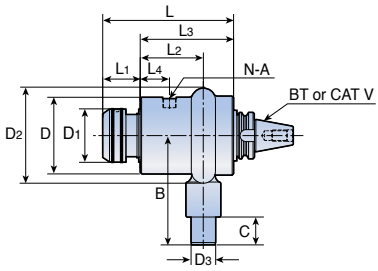
'S' type connector



Designation	DC	D	D1	D2	D3	L	L1	L2	L3	L4	N-A	N1-MXLS
DTC 4S	18.4-65.0	115	100	45	80	310	50	60	250	68	2-PT3/4"	4-M8x15
5S	65.0-123.9	164	140	81	120	415	47	115	300		2-PT1"	6-M8x20

DTC-R

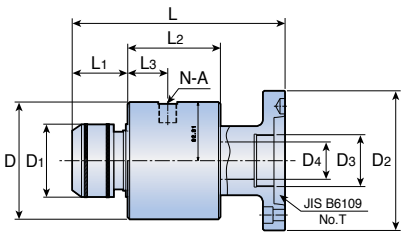
'R' type connector



Designation	DC	D	D1	D2	D3	B	C	L	L1	L2	L3	L4	N-A
DTC 4R	18.4-65.0	165	115	206	53	186.5	60	319.7	59.2	152	228	75	2-PT1"
5R	65.0-123.9	225	164	312	100	310	100	382	62	201	320	95	2-PT1 1/4"
6R	124.0-183.9	350	244	445	152.4	412	120	487	75	250	412	118	4-PT1-1/4"

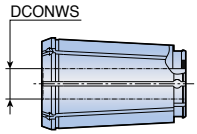
DTC-RF

'RF' type connector

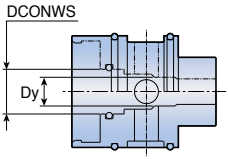


Designation	DC	D	D1	D2	D3	D4	L	L1	L2	L3	N-A
DTC 4RF	18.4-65.0	160	115	210	M62x2	46	291.5	64.5	150	75	2-PT1"

Collet / Sealing Sleeve



Collet



Sealing sleeve

Designation	DC	DCONWS	Designation	DC	DCONWS	Dy	Outer O-ring	Inner O-ring
COLLET 4-18	18.40-20.00	18.0	**SEALING SLEEVE 4-18**	18.40-20.00	18.0	10	OOR 65	IOR 18
4-19.5	20.01-21.80	19.5	**4-19.5**	20.01-21.80	19.5	12		IOR 19.5
4-21.5	21.81-24.10	21.5	**4-21.5**	21.81-24.10	21.5	13		IOR 21.5
4-23.5	24.11-26.40	23.5	**4-23.5**	24.11-26.40	23.5	14		IOR 23.5
4-26	26.41-28.70	26.0	**4-26**	26.41-28.70	26.0	16		IOR 26
4-28	28.71-31.00	28.0	**4-28**	28.71-31.00	28.0	18		IOR 28
4-30.5	31.01-33.30	30.5	**4-30.5**	31.01-33.30	30.5	20		IOR 30.5
4-33	33.31-36.20	33.0	**4-33**	33.31-36.20	33.0	22		IOR 33
4-35.5	36.21-39.60	35.5	**4-35.5**	36.21-39.60	35.5	24		IOR 35.5
4-39	39.61-43.00	39.0	**4-39**	39.61-43.00	39.0	27		IOR 39
4-42.5	43.01-47.00	42.5	**4-42.5**	43.01-47.00	42.5	30		IOR 42.5
4-46.5	47.01-51.70	46.5	**4-46.5**	47.01-51.70	46.5	32		IOR 46.5
4-51	51.71-56.20	51.0	**4-51**	51.71-56.20	51.0	36		IOR 51
4-55.5	56.21-65.00	55.5	**4-55.5**	56.21-65.00	55.5	40		IOR 55.5

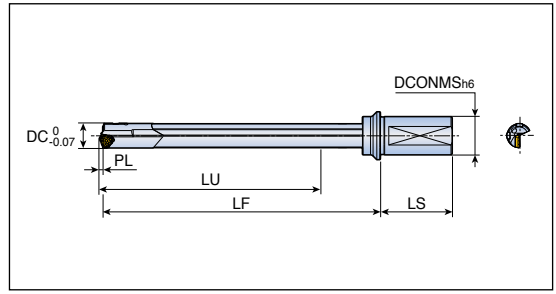
TRGD

Standard gundrill holders



• Drilling depth: 10xDC - 25xDC





Designation		Dimension (mm)						
		DC	LU	LF	LS	DCONMS	PL	L/D
TRGD	**16.00xM25-10**	16.0	172	209	56	25	2.2	10
	16.50xM25-10	16.5	172	209	56	25	2.2	10
	17.00xM25-10	17.0	182	220	56	25	2.2	10
	18.00xM25-10	18.0	193	232	56	25	3.0	10
	19.00xM25-10	19.0	203	243	56	25	3.0	10
	20.00xM32-10	20.0	213	255	60	32	3.2	10
	29.00XM40-10	29.0	290	360	69	40	4.57	10
	30.00XM40-10	30.0	310	383	69	40	4.57	10
	31.00XM40-10	31.0	310	383	69	40	4.57	10
	32.00XM40-10	33.0	320	395	69	40	4.57	10
	14.00XM25-15	14.0	227	261	56	25	2.0	15
	14.50XM25-15	14.5	227	262	56	25	2.0	15
	15.00XM25-15	15.0	242	278	56	25	2.0	15
	16.00xM25-15	16.0	257	294	56	25	2.2	15
	16.50xM25-15	16.5	257	294	56	25	2.2	15
	17.00xM25-15	17.0	272	310	56	25	2.2	15
	17.50xM25-15	17.5	272	310	56	25	2.2	15
	18.00xM25-15	18.0	288	327	56	25	3.0	15
	18.50xM25-15	18.5	288	327	56	25	3.0	15
	19.00xM25-15	19.0	303	343	56	25	3.0	15
	19.50xM25-15	19.5	303	343	56	25	3.0	15
	20.00xM32-15	20.0	318	360	60	32	3.2	15
	21.00xM32-15	21.0	333	376	60	32	3.2	15
	22.00xM32-15	22.0	348	393	60	32	3.4	15
	23.00xM32-15	23.0	363	409	60	32	3.4	15
	24.00xM32-15	24.0	378	426	60	32	3.4	15
	25.00xM32-15	25.0	394	442	60	32	3.6	15
	26.00xM40-15	26.0	409	449	70	40	3.6	15
	27.00xM40-15	27.0	424	465	70	40	3.6	15
	28.00xM40-15	28.0	424	467	70	40	3.6	15
	14.00XM25-20	14.0	302	336	56	25	2.0	20
	14.50XM25-20	14.5	302	337	56	25	2.0	20
	15.00XM25-20	15.0	322	358	56	25	2.0	20
	29.00XM40-20	29.0	580	650	69	40	4.57	20
	30.00XM40-20	30.0	620	693	69	40	4.57	20

Assembly D146
Cutting Condition D222

• Guide pad is sold separately from drill body.

• Available upon request

ADVANCE MACHINING
TaeguTec Industry 4.0

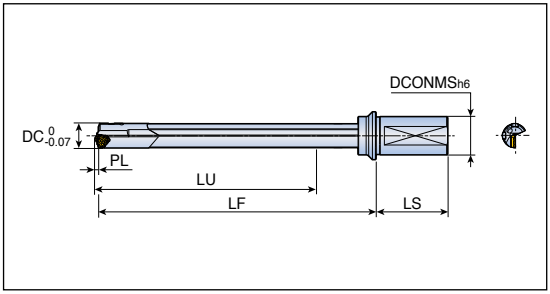
TRGD

TDEEP

Standard gundrill holders



• Drilling depth: 10xDC - 25xDC



Designation	Dimension (mm)						
	DC	LU	LF	LS	DCONMS	PL	L/D
TRGD 31.00XM40-20	31.0	620	693	69	40	4.57	20
32.00XM40-20	32.0	640	715	69	40	4.57	20
14.00XM25-25	14.0	377	411	56	25	2.0	25
14.50XM25-25	14.5	377	412	56	25	2.0	25
15.00XM25-25	15.0	402	438	56	25	2.0	25
16.00xM25-25	16.0	427	464	56	25	2.2	25
16.50xM25-25	16.5	427	464	56	25	2.2	25
17.00xM25-25	17.0	452	490	56	25	2.2	25
17.50xM25-25	17.5	452	490	56	25	2.2	25
18.00xM25-25	18.0	478	517	56	25	3.0	25
18.50xM25-25	18.5	478	517	56	25	3.0	25
19.00xM25-25	19.0	503	543	56	25	3.0	25
19.50xM25-25	19.5	503	543	56	25	3.0	25
20.00xM32-25	20.0	528	570	60	32	3.2	25
21.00xM32-25	21.0	553	596	60	32	3.2	25
22.00xM32-25	22.0	578	623	60	32	3.4	25
23.00xM32-25	23.0	603	649	60	32	3.4	25
24.00xM32-25	24.0	628	676	60	32	3.4	25
25.00xM32-25	25.0	654	702	60	32	3.6	25
26.00xM40-25	26.0	679	719	70	40	3.6	25
27.00xM40-25	27.0	704	745	70	40	3.6	25
28.00xM40-25	28.0	704	747	70	40	3.6	25

Assembly D146

Cutting Condition D222

• Guide pad is sold separately from drill body.

• Available upon request

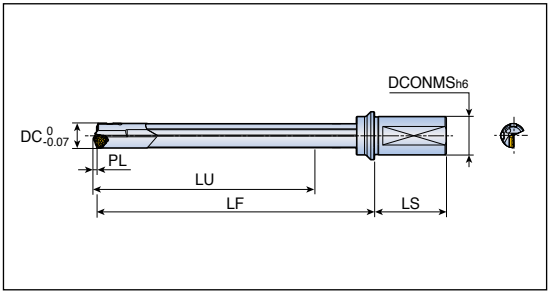
TaeguTec

Standard gundrill holders



• Drilling depth: 10xDC - 25xDC





Insert & guide pad

Tool dia. (mm)	Insert			Guide pad		
	Insert	Screw	Wrench	Guide pad	Screw	Wrench
14.00-15.99	TOGT 070304 RS TT9030	SR14-560/S	T-8F	PAD-GP05-18-060-DC-SB PAD-GP05-18-060-DC-SC	SR 34-508	T-7F
16.00-18.00	TOGT 080305 RS TT9030	SR14-560/S	T-8F	PAD-GP05-18-075-DC-SB PAD-GP05-18-075-DC-SC	SR 34-508	T-7F
18.01-20.00	TOGT 090305 RS TT9030	CSTB2.5S*	T-8F	PAD-GP06-20-085-DC-SB PAD-GP06-20-085-DC-SC	SR 34-508	T-7F
20.01-21.00	TOGT 100305 RS TT9030	CSTB3S*	T-9F			
21.01-21.99	TOGT 100305 RS TT9030	CSTB3S*	T-9F	PAD-GP06-20-100-DC-SB PAD-GP06-20-100-DC-SC	SR 34-508	T-7F
22.00-25.00	TOGT 110405 RS TT9030	CSTB3.5H*	T-15F			
25.01-28.00	TOGT 120405 RS TT9030	CSTB3.5H*	T-15F	PAD-GP06-20-120-DC-SB PAD-GP06-20-120-DC-SC	SR 34-508	T-7F
28.01-29.99	TOGT 130408 RS	SR 16-212/L10	T-20/5	PAD-GP06-20-120-DC-SB PAD-GP06-20-120-DC-SC	SR 34-508	T-7F
30.00-32.00	TOGT 130408 RS	SR 16-212/L10	T-20/5	PAD-GP07-20-120-DC-SB PAD-GP06-20-120-DC-SC	CSTB-3S	T-9F

• Guide pad with "SB" is the first choice in general purpose machining.
"SC" is a excellent toughness grade used with water-soluble coolant.
• Inserts and guide pads must be ordered separately

TRGD3

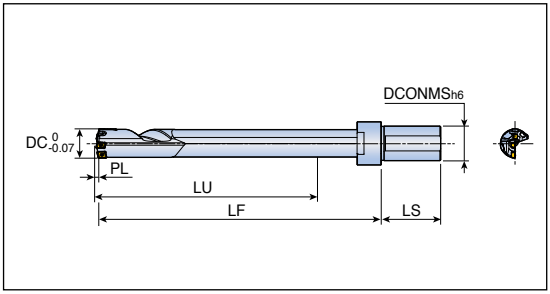
Standard gundrill holders





• Drilling depth: 10xDC - 15xDC





Designation	Dimension (mm)						
	DC	LU	LF	LS	DCONMS	PL	L/D
TRGD3 29.00XFM40-10	29.0	293	360	69	40	2.6	10
30.00XFM40-10	30.0	313	383	69	40	2.9	10
31.00XFM40-10	31.0	313	383	69	40	2.9	10
32.00XFM40-10	32.0	323	395	69	40	3.0	10
33.00XFM40-10	33.0	333	406	69	40	3.1	10
34.00XFM40-10	34.0	343	418	69	40	3.0	10
35.00XFM40-10	35.0	353	428	69	40	3.1	10
36.00XFM40-10	36.0	363	441	69	40	3.1	10
29.00XFM40-15	29.0	438	505	69	40	2.6	15
30.00XFM40-15	30.0	468	538	69	40	2.9	15
31.00XFM40-15	31.0	468	538	69	40	2.9	15
32.00XFM40-15	32.0	483	555	69	40	3.0	15
33.00XFM40-15	33.0	498	571	69	40	3.1	15
34.00XFM40-15	34.0	513	588	69	40	3.0	15
35.00XFM40-15	35.0	528	603	69	40	3.1	15
36.00XFM40-15	36.0	543	621	69	40	3.1	15

• Guide pad is sold separately from drill body.
• Supply up to 40.0mm drill daimeter

• Available upon request

Insert & guide pad

Parts		Diameter (mm)			
		29.0-29.99	30.0-33.0	33.01-35.0	35.01-36.0
Insert	Peripheral insert	NPHT 060304R-G-P	NPHT 080404R-G-P	NPHT 080404R-G-P	NPHT 080404R-G-P
	Screw	CSTB2.2	CSTB2.5	CSTB2.5	CSTB2.5
	Wrench	T-7F	T-8F	T-8F	T-8F
	Inner insert	NPMT 060304R-G-I	NPMT 070404R-G-I	NPMT 070404R-G-I	NPMT 070404R-G-I
	Screw	CSTB2.2	CSTB2.5	CSTB2.5	CSTB2.5
	Wrench	T-7F	T-8F	T-8F	T-8F
	Center insert	NPMT 070408L-G-C	NPMT 070408L-G-C	NPMT 070408L-G-C	NPMT 100408L-G-C
	Screw	CSTB2.5	CSTB2.6	CSTB2.7	CSTB2.8
	Wrench	T-8F	T-8F	T-8F	T-8F
Pad	Guide pad	PAD-GP06-20-120-DC-SB	PAD-GP06-20-120-DC-SB	PAD-GP07-20-120-DC-SB	PAD-GP07-20-120-DC-SB
		PAD-GP06-20-120-DC-SC	PAD-GP06-20-120-DC-SC	PAD-GP07-20-120-DC-SC	PAD-GP07-20-120-DC-SC
	Screw	SR 34-508	SR 34-508	CSTB3S	CSTB3S
	Wrench	T-7F	T-7F	T-9F	T-9F

D181 Guide Pad D188 Cutting Condition D222

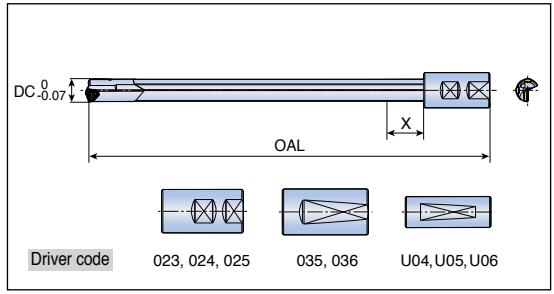
• Inserts and guide pads must be ordered separately

TRGDL

Standard gundrill holders







Designation	Driver code	Dimension (mm)		
		DC	OAL	X
TRGDL 14.00X800-XXX	U04 023	14	800	21
14.00X1000-XXX		14	1000	21
14.00X1650-XXX		14	1650	21
14.50X800-XXX		14.5	800	22
14.50X1000-XXX		14.5	1000	22
14.50X1650-XXX		14.5	1650	22
15.00X800-XXX		15	800	23
15.00X1000-XXX		15	1000	23
15.00X1650-XXX		15	1650	23
16.00x800-XXX	U04 023 035	16	800	24
16.00x1000-XXX		16	1000	24
16.00x1500-XXX		16	1500	24
17.00x1000-XXX		17	1000	25
17.00x1500-XXX		17	1500	25
18.00x800-XXX		18	800	27
18.00x1000-XXX		18	1000	27
18.00x1500-XXX		18	1500	27
19.00x800-XXX		19	800	28
19.00x1000-XXX		19	1000	28
19.00x1500-XXX		19	1500	28
20.00x800-XXX	U05 024 036	20	800	30
20.00x1000-XXX		20	1000	30
20.00x1500-XXX		20	1500	30
21.00x1000-XXX		21	1000	31
21.00x1500-XXX		21	1500	31
22.00x1000-XXX		22	1000	33
22.00x1500-XXX		22	1500	33
23.00x1000-XXX		23	1000	34
23.00x1500-XXX		23	1500	34
24.00x1000-XXX		24	1000	36
24.00x1500-XXX		24	1500	36
25.00x1000-XXX		25	1000	37
25.00x1500-XXX		25	1500	37

Guide Pad D188
Cutting Condition D222
D185

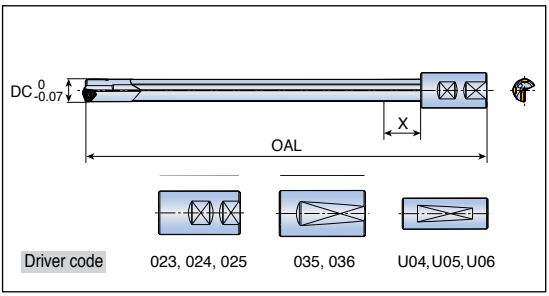
• Guide pad is sold separately from drill body.

• Available upon request
• Select "XXX" driver code

TRGDL

Standard gundrill holders





Designation	Driver code	Dimension (mm)		
		DC	OAL	X
TRGDL 26.00x1000-XXX	U06 025 026 036	26	1000	39
26.00x1500-XXX		26	1500	39
27.00x1000-XXX		27	1000	40
27.00x1500-XXX		27	1500	40
28.00x1000-XXX		28	1000	42
28.00x1500-XXX		28	1500	42

- Guide pad is sold separately from drill body.
- Available upon request
- Select "XXX" driver code

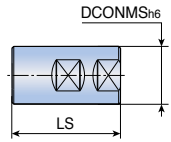
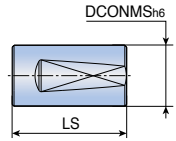
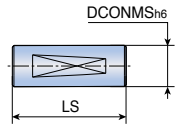
Insert & guide pad

Tool dia. (mm)	Insert			Guide pad		
	Insert	Screw	Wrench	Guide pad	Screw	Wrench
14.00-15.99	TOGT 070304 RS TT9030	SR 14-560/S	T-8F	PAD-GP05-18-060-DC-SB PAD-GP05-18-060-DC-SC	SR 34-508	T-7F
16.00-18.00	TOGT 080305 RS TT9030	SR 14-560/S	T-8F	PAD-GP05-18-075-DC-SB PAD-GP05-18-075-DC-SC	SR 34-508	T-7F
18.01-20.00	TOGT 090305 RS TT9030	CSTB2.5S*	T-8F	PAD-GP06-20-085-DC-SB PAD-GP06-20-085-DC-SC	SR 34-508	T-7F
20.01-21.00	TOGT 100305 RS TT9030	CSTB3S*	T-9F			
21.01-21.99	TOGT 100305 RS TT9030	CSTB3S*	T-9F	PAD-GP06-20-100-DC-SB PAD-GP06-20-100-DC-SC	SR 34-508	T-7F
22.00-25.00	TOGT 110405 RS TT9030	CSTB3.5H*	T-15F			
25.01-28.00	TOGT 120405 RS TT9030	CSTB4S*	T-15F	PAD-GP06-20-120-DC-SB PAD-GP06-20-120-DC-SC	SR 34-508	T-7F

D185 Guide Pad D188 Cutting Condition D222

- Guide pad with "SB" is the first choice in general purpose machining. "SC" is a excellent toughness grade used with water-soluble coolant.
- Inserts and guide pads must be ordered separately

Driver for TRGDL Type

Driver	Tool diameter	Driver code	Dimension (mm)	
			LS	DCONMS
	14.00-19.69	023	56	25.00
	16.00-25.69	024	60	32.00
	16.00-28.00	025	70	40.00
	16.00-28.00	026	80	50.00
	16.00-19.69	035	56	25.00
	16.00-25.69	036	60	32.00
	16.00-19.69	U04	70	25.40
	16.00-25.69	U05	70	31.75
	16.00-28.00	U06	70	38.10

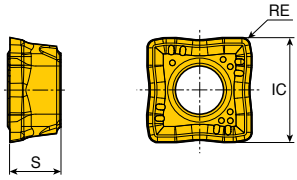
Drilling Heads & Inserts



SOMT...DP

TOPDRILL

Inserts for general purpose



Size	Dimension (mm)		
	IC	S	RE
04	4.4	2.38	0.4
05	4.9	2.38	0.4
06	5.7	2.38	0.4
07	6.8	2.80	0.6
08	7.9	3.97	0.6
09	9.2	3.97	0.8
11	11.0	3.97	0.8
13	12.8	4.40	0.8
15	15.0	4.80	1.0

Insert	Designation	Coated						Uncoated
		TT9080	TT8020	TT9300	TT9030	TT6030	TT7400	K10
	**SOMT 040204 DP**	●	●	●				
	050204 DP	●	●	●				
	060204 DP	●	●	●				
	070306 DP	●	●	●				
	08T306 DP	●	●	●				
	09T308 DP	●	●	●				
	11T308 DP	●	●	●				
	130408 DP	●	●	●				
	150510 DP	●	●	●				



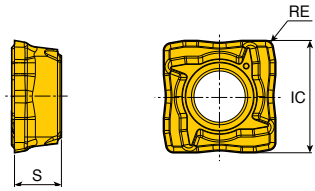
- TT9080: First choice for general purpose
- TT8020: For unstable condition
- TT9300: For high speed machining on a steel application (Peripheral **ONLY**)

●: Standard items

SOMT...DL

TOPDRILL

Inserts for low carbon steel



Size	Dimension (mm)		
	IC	S	RE
05	4.9	2.38	0.4
06	5.7	2.38	0.4
07	6.8	2.80	0.6
08	7.9	3.97	0.6
09	9.2	3.97	0.8
11	11.0	3.97	0.8
13	12.8	4.40	0.8
15	15.0	4.80	1.0

Insert	Designation	Coated						Uncoated
		TT9080	TT9030	TT8020	TT6030	TT9300	TT7400	K10
	**SOMT 050204 DL**	●						
	060204 DL	●						
	070306 DL	●						
	08T306 DL	●						
	09T308 DL	●						
	11T308 DL	●						
	130408 DL	●						
	150510 DL	●						



- TT9080: First choice for general purpose

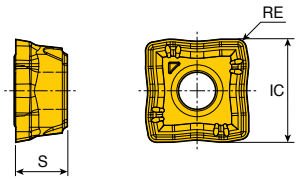
●: Standard items

ADVANCE MACHINING
TaeguTec Industry 4.0

SOMT...DK

TOPDRILL

Inserts for cast iron



Size	Dimension (mm)		
	IC	S	RE
05	4.9	2.38	0.4
06	5.7	2.38	0.4
07	6.8	2.80	0.6
08	7.9	3.97	0.6
09	9.2	3.97	0.8
11	11.0	3.97	0.8
13	12.8	4.40	0.8
15	15.0	4.80	1.0

Insert	Designation	Coated							Uncoated			
		TT9080	TT8020	TT9300	TT9030	TT6030	TT6080	TT7400	K10			
	**SOMT 050204 DK**						●					
	060204 DK						●					
	070306 DK						●					
	08T306 DK						●					
	09T308 DK						●					
	11T308 DK						●					
	130408 DK						●					
	150510 DK						●					

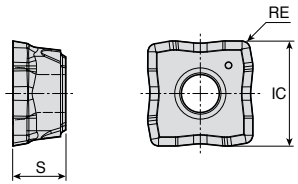


●: Standard items

SOMT...DA

TOPDRILL

Inserts for aluminum alloy



Size	Dimension (mm)		
	IC	S	RE
05	4.9	2.38	0.4
06	5.7	2.38	0.4
07	6.8	2.80	0.6
08	7.9	3.97	0.6
09	9.2	3.97	0.8
11	11.0	3.97	0.8
13	12.8	4.40	0.8
15	15.0	4.80	1.0

Insert	Designation	Coated							Uncoated			
		TT9080	TT8020	TT9300	TT9030	TT6030	TT6080	TT7400	K10			
	**SOMT 050204 DA**								●			
	060204 DA								●			
	070306 DA								●			
	08T306 DA								●			
	09T308 DA								●			
	11T308 DA								●			
	130408 DA								●			
	150510 DA								●			

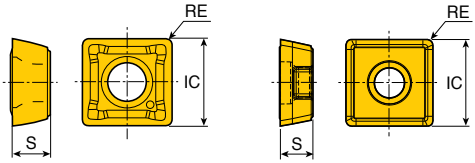


●: Standard items

SPMG...DG

TDRILL

Inserts for general purpose



SPMG 120408 DG

Size	Dimension (mm)		
	IC	S	RE
05	5.00	2.38	0.4
06	6.00	2.38	0.4
07	7.94	3.97	0.8
09	9.80	4.30	0.8
11	11.50	4.80	0.8
12	12.70	4.76	0.8
14	14.30	5.20	1.2

Insert	Designation	Coated						Uncoated
		TT9080	TT9030	TT8020	TT6030	TT9300	TT7400	K10
	**SPMG 050204 DG**		●	●			●	
	060204 DG		●	●			●	
	07T308 DG		●	●			●	
	090408 DG		●	●			●	
	110408 DG		●	●			●	
	120408 DG		●					
	140512 DG		●	●			●	



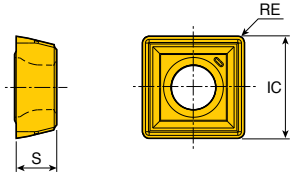
- TT9030: First choice for general purpose
- TT8020: For unstable condition
- TT7400: For high speed machining on a steel application (Peripheral **ONLY**)

●: Standard items

SPMG...DK

TDRILL

Inserts for cast iron



Size	Dimension (mm)		
	IC	S	RE
05	5.00	2.38	0.4
06	6.00	2.38	0.4
07	7.94	3.97	0.8
09	9.80	4.30	0.8
11	11.50	4.80	0.8
14	14.30	5.20	1.2

Insert	Designation	Coated						Uncoated
		TT9080	TT9030	TT8020	TT6030	TT9300	TT7400	K10
	**SPMG 050204 DK**				●			
	060204 DK				●			
	07T308 DK				●			
	090408 DK				●			
	110408 DK				●			
	140512 DK				●			

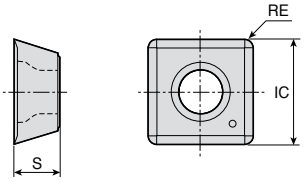


●: Standard items

ADVANCE MACHINING
TaeguTec Industry 4.0

SPGG...DA

Inserts for aluminum alloy



Size	Dimension (mm)		
	IC	S	RE
05	5.00	2.38	0.4
06	6.00	2.38	0.4
07	7.94	3.97	0.8
09	9.80	4.30	0.8
11	11.50	4.80	0.8
14	14.30	5.20	1.2

Insert	Designation	Coated						Uncoated			
		TT9080	TT9030	TT8020	TT6030	TT9300	TT7400	K10			
	**SPGG 050204 DA**							●			
	060204 DA							●			
	07T308 DA							●			
	090408 DA							●			
	110408 DA							●			
	140512 DA							●			

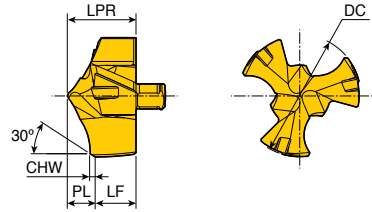
●: Standard items

D32

3ED...-P+

3 flute drill heads





Designation		Dimension (mm)						Grade
		DC	LPR	PL	LF	CHW	SSC	TT5130
3ED-	150-P+	15.0	8.40	3.31	5.09	0.50	15	●
	151-P+	15.1	8.40	3.31	5.09	0.50	15	●
	152-P+	15.2	8.40	3.31	5.09	0.50	15	●
	153-P+	15.3	8.40	3.31	5.09	0.50	15	●
	154-P+	15.4	8.40	3.31	5.09	0.50	15	●
	155-P+	15.5	8.40	3.32	5.08	0.50	15	●
	156-P+	15.6	8.40	3.32	5.08	0.50	15	●
	157-P+	15.7	8.40	3.32	5.08	0.50	15	●
	158-P+	15.8	8.40	3.32	5.08	0.50	15	●
	159-P+	15.9	8.40	3.32	5.08	0.50	15	●
	160-P+	16.0	9.00	3.70	5.30	0.70	16	●
	161-P+	16.1	9.00	3.70	5.30	0.70	16	●
	162-P+	16.2	9.00	3.70	5.30	0.70	16	●
	163-P+	16.3	9.00	3.70	5.30	0.70	16	●
	164-P+	16.4	9.00	3.70	5.30	0.70	16	●
	165-P+	16.5	9.00	3.71	5.29	0.70	16	●
	166-P+	16.6	9.00	3.71	5.29	0.70	16	●
	167-P+	16.7	9.00	3.71	5.29	0.70	16	●
	168-P+	16.8	9.00	3.71	5.29	0.70	16	●
	169-P+	16.9	9.00	3.71	5.29	0.70	16	●
	170-P+	17.0	9.50	3.88	5.62	0.70	17	●
	171-P+	17.1	9.50	3.88	5.62	0.70	17	●
	172-P+	17.2	9.50	3.88	5.62	0.70	17	●
	173-P+	17.3	9.50	3.88	5.62	0.70	17	●
	174-P+	17.4	9.50	3.88	5.62	0.70	17	●
	175-P+	17.5	9.50	3.89	5.61	0.70	17	●
	176-P+	17.6	9.50	3.89	5.61	0.70	17	●
	177-P+	17.7	9.50	3.89	5.61	0.70	17	●
	178-P+	17.8	9.50	3.89	5.61	0.70	17	●
	179-P+	17.9	9.50	3.89	5.61	0.70	17	●



• SSC: Seat size code

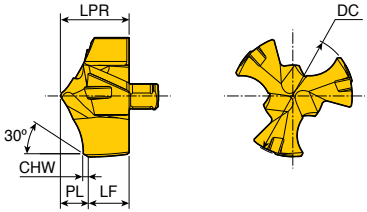
●: Standard items

3ED...-P+

DRILLSFEED

3 flute drill heads





Designation	Dimension (mm)						Grade
	DC	LPR	PL	LF	CHW	SSC	TT5130
3ED- 180-P+	18.0	10.10	4.07	6.03	0.70	18	●
181-P+	18.1	10.10	4.07	6.03	0.70	18	●
182-P+	18.2	10.10	4.07	6.03	0.70	18	●
183-P+	18.3	10.10	4.07	6.03	0.70	18	●
184-P+	18.4	10.10	4.07	6.03	0.70	18	●
185-P+	18.5	10.10	4.08	6.02	0.70	18	●
186-P+	18.6	10.10	4.08	6.02	0.70	18	●
187-P+	18.7	10.10	4.08	6.02	0.70	18	●
188-P+	18.8	10.10	4.08	6.02	0.70	18	●
189-P+	18.9	10.10	4.08	6.02	0.70	18	●
190-P+	19.0	10.70	4.26	6.44	0.70	19	●
191-P+	19.1	10.70	4.26	6.44	0.70	19	●
192-P+	19.2	10.70	4.26	6.44	0.70	19	●
193-P+	19.3	10.70	4.26	6.44	0.70	19	●
194-P+	19.4	10.70	4.26	6.44	0.70	19	●
195-P+	19.5	10.70	4.27	6.43	0.70	19	●
196-P+	19.6	10.70	4.27	6.43	0.70	19	●
197-P+	19.7	10.70	4.27	6.43	0.70	19	●
198-P+	19.8	10.70	4.27	6.43	0.70	19	●
199-P+	19.9	10.70	4.27	6.43	0.70	19	●
200-P+	20.0	11.30	4.44	6.86	0.70	20	●
201-P+	20.1	11.30	4.44	6.86	0.70	20	●
202-P+	20.2	11.30	4.44	6.86	0.70	20	●
203-P+	20.3	11.30	4.44	6.86	0.70	20	●
204-P+	20.4	11.30	4.44	6.86	0.70	20	●
205-P+	20.5	11.30	4.45	6.85	0.70	20	●
206-P+	20.6	11.30	4.45	6.85	0.70	20	●
207-P+	20.7	11.30	4.45	6.85	0.70	20	●
208-P+	20.8	11.30	4.45	6.85	0.70	20	●
209-P+	20.9	11.30	4.45	6.85	0.70	20	●


D49

• SSC: Seat size code

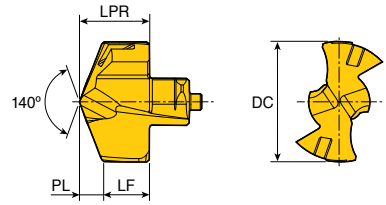
●: Standard items

TaeguTec

TCD...P/M/K

Drill heads





Designation	Dimension (mm)					Grade
	DC	LPR	PL	LF	SSC	TT9080
TCD - 060-P/M/K	6.0	4.0	0.96	3.04	6	●
061-P/M/K	6.1	4.0	0.98	3.02	6	●
062-P/M/K	6.2	4.0	1.00	3.00	6	●
063-P/M/K	6.3	4.0	1.01	2.99	6	●
064-P/M/K	6.4	4.0	1.03	2.97	6	●
065-P/M/K	6.5	4.3	1.18	3.12	6.5	●
066-P/M/K	6.6	4.3	1.20	3.10	6.5	●
067-P/M/K	6.7	4.3	1.22	3.08	6.5	●
068-P/M/K	6.8	4.3	1.23	3.07	6.5	●
069-P/M/K	6.9	4.3	1.25	3.05	6.5	●
070-P/M/K	7.0	4.6	1.01	3.59	7	●
071-P/M/K	7.1	4.6	1.03	3.57	7	●
072-P/M/K	7.2	4.6	1.05	3.55	7	●
073-P/M/K	7.3	4.6	1.06	3.54	7	●
074-P/M/K	7.4	4.6	1.08	3.52	7	●
075-P/M/K	7.5	4.6	1.10	3.50	7	●
076-P/M/K	7.6	4.6	1.12	3.48	7	●
077-P/M/K	7.7	4.6	1.14	3.46	7	●
078-P/M/K	7.8	4.6	1.16	3.44	7	●
079-P/M/K	7.9	4.6	1.17	3.43	7	●
080-P/M/K	8.0	5.4	1.20	4.20	8	●
081-P/M/K	8.1	5.4	1.22	4.18	8	●
082-P/M/K	8.2	5.4	1.24	4.16	8	●
083-P/M/K	8.3	5.4	1.25	4.15	8	●
084-P/M/K	8.4	5.4	1.27	4.13	8	●
085-P/M/K	8.5	5.4	1.29	4.11	8	●
086-P/M/K	8.6	5.4	1.31	4.09	8	●
087-P/M/K	8.7	5.4	1.33	4.07	8	●
088-P/M/K	8.8	5.4	1.35	4.05	8	●
089-P/M/K	8.9	5.4	1.36	4.04	8	●
090-P/M/K	9.0	5.8	1.35	4.45	9	●
091-P/M/K	9.1	5.8	1.37	4.43	9	●
092-P/M/K	9.2	5.8	1.39	4.41	9	●
093-P/M/K	9.3	5.8	1.40	4.40	9	●
094-P/M/K	9.4	5.8	1.42	4.38	9	●



• Drill head can be ordered by an application
Order example) Diameter 10.0mm drill head for ISO P application: TCD-100-P TT9080

●: Standard items

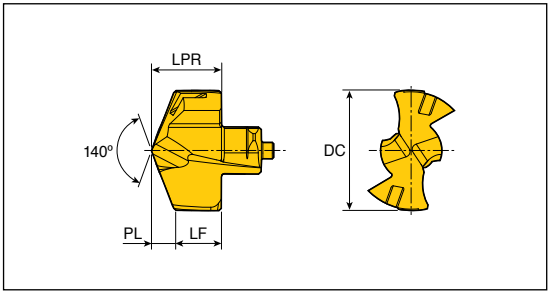
Ⓟ Steel Ⓜ Stainless steel Ⓚ Cast iron

TCD...P/M/K

DRILLRUSH

Drill heads





Designation	Dimension (mm)					Grade
	DC	LPR	PL	LF	SSC	TT9080
TCD - 095-P/M/K	9.5	5.8	1.44	4.36	9	●
096-P/M/K	9.6	5.8	1.46	4.34	9	●
097-P/M/K	9.7	5.8	1.48	4.32	9	●
098-P/M/K	9.8	5.8	1.50	4.30	9	●
099-P/M/K	9.9	5.8	1.51	4.29	9	●
100-P/M/K	10.0	6.2	1.50	4.70	10	●
101-P/M/K	10.1	6.2	1.52	4.68	10	●
102-P/M/K	10.2	6.2	1.54	4.66	10	●
103-P/M/K	10.3	6.2	1.55	4.65	10	●
104-P/M/K	10.4	6.2	1.57	4.63	10	●
105-P/M/K	10.5	6.2	1.59	4.61	10	●
106-P/M/K	10.6	6.2	1.61	4.59	10	●
107-P/M/K	10.7	6.2	1.63	4.57	10	●
108-P/M/K	10.8	6.2	1.65	4.55	10	●
109-P/M/K	10.9	6.2	1.66	4.54	10	●
110-P/M/K	11.0	6.6	1.67	4.93	11	●
111-P/M/K	11.1	6.6	1.69	4.91	11	●
112-P/M/K	11.2	6.6	1.71	4.89	11	●
113-P/M/K	11.3	6.6	1.72	4.88	11	●
114-P/M/K	11.4	6.6	1.74	4.86	11	●
115-P/M/K	11.5	6.6	1.76	4.84	11	●
116-P/M/K	11.6	6.6	1.78	4.82	11	●
117-P/M/K	11.7	6.6	1.80	4.80	11	●
118-P/M/K	11.8	6.6	1.82	4.78	11	●
119-P/M/K	11.9	6.6	1.83	4.77	11	●
120-P/M/K	12.0	7.0	1.82	5.18	12	●
121-P/M/K	12.1	7.0	1.84	5.16	12	●
122-P/M/K	12.2	7.0	1.86	5.14	12	●
123-P/M/K	12.3	7.0	1.87	5.13	12	●
124-P/M/K	12.4	7.0	1.89	5.11	12	●
125-P/M/K	12.5	7.0	1.91	5.09	12	●
126-P/M/K	12.6	7.0	1.93	5.07	12	●
127-P/M/K	12.7	7.0	1.95	5.05	12	●
128-P/M/K	12.8	7.0	1.97	5.03	12	●
129-P/M/K	12.9	7.0	1.98	5.02	12	●



• Drill head can be ordered by an application
Order example) Diameter 10.0mm drill head for ISO P application: TCD-100-P TT9080

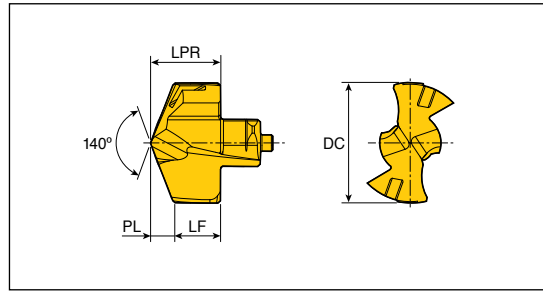
●: Standard items

P Steel M Stainless steel K Cast iron

TaeguTec

Drill heads





Designation	Dimension (mm)					Grade
	DC	LPR	PL	LF	SSC	TT9080
TCD - 130-P/M/K	13.0	7.6	1.96	5.64	13	●
131-P/M/K	13.1	7.6	1.98	5.62	13	●
132-P/M/K	13.2	7.6	2.00	5.60	13	●
133-P/M/K	13.3	7.6	2.01	5.59	13	●
134-P/M/K	13.4	7.6	2.03	5.57	13	●
135-P/M/K	13.5	7.6	2.05	5.55	13	●
136-P/M/K	13.6	7.6	2.07	5.53	13	●
137-P/M/K	13.7	7.6	2.09	5.51	13	●
138-P/M/K	13.8	7.6	2.11	5.49	13	●
139-P/M/K	13.9	7.6	2.12	5.48	13	●
140-P/M/K	14.0	8.1	2.12	5.98	14	●
141-P/M/K	14.1	8.1	2.14	5.96	14	●
142-P/M/K	14.2	8.1	2.16	5.94	14	●
143-P/M/K	14.3	8.1	2.17	5.93	14	●
144-P/M/K	14.4	8.1	2.19	5.91	14	●
145-P/M/K	14.5	8.1	2.21	5.89	14	●
146-P/M/K	14.6	8.1	2.23	5.87	14	●
147-P/M/K	14.7	8.1	2.25	5.85	14	●
148-P/M/K	14.8	8.1	2.27	5.83	14	●
149-P/M/K	14.9	8.1	2.28	5.82	14	●
150-P/M/K	15.0	8.7	2.27	6.43	15	●
151-P/M/K	15.1	8.7	2.29	6.41	15	●
152-P/M/K	15.2	8.7	2.31	6.39	15	●
153-P/M/K	15.3	8.7	2.32	6.38	15	●
154-P/M/K	15.4	8.7	2.34	6.36	15	●
155-P/M/K	15.5	8.7	2.36	6.34	15	●
156-P/M/K	15.6	8.7	2.38	6.32	15	●
157-P/M/K	15.7	8.7	2.40	6.30	15	●
158-P/M/K	15.8	8.7	2.42	6.28	15	●
159-P/M/K	15.9	8.7	2.43	6.27	15	●
160-P/M/K	16.0	9.3	2.42	6.88	16	●
161-P/M/K	16.1	9.3	2.44	6.86	16	●
162-P/M/K	16.2	9.3	2.46	6.84	16	●
163-P/M/K	16.3	9.3	2.47	6.83	16	●
164-P/M/K	16.4	9.3	2.49	6.81	16	●



• Drill head can be ordered by an application
Order example) Diameter 10.0mm drill head for ISO P application: TCD-100-P TT9080

●: Standard items

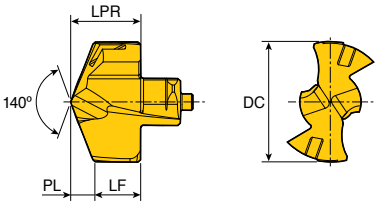
P Steel M Stainless steel K Cast iron

TCD...P/M/K

DRILLRUSH

Drill heads





Designation	Dimension (mm)					Grade
	DC	LPR	PL	LF	SSC	TT9080
TCD - 165-P/M/K	16.5	9.3	2.51	6.79	16	●
166-P/M/K	16.6	9.3	2.53	6.77	16	●
167-P/M/K	16.7	9.3	2.55	6.75	16	●
168-P/M/K	16.8	9.3	2.57	6.73	16	●
169-P/M/K	16.9	9.3	2.58	6.72	16	●
170-P/M/K	17.0	9.9	2.59	7.31	17	●
171-P/M/K	17.1	9.9	2.61	7.29	17	●
172-P/M/K	17.2	9.9	2.63	7.27	17	●
173-P/M/K	17.3	9.9	2.64	7.26	17	●
174-P/M/K	17.4	9.9	2.66	7.24	17	●
175-P/M/K	17.5	9.9	2.68	7.22	17	●
176-P/M/K	17.6	9.9	2.70	7.20	17	●
177-P/M/K	17.7	9.9	2.72	7.18	17	●
178-P/M/K	17.8	9.9	2.74	7.16	17	●
179-P/M/K	17.9	9.9	2.75	7.15	17	●
180-P/M/K	18.0	10.5	2.73	7.77	18	●
181-P/M/K	18.1	10.5	2.75	7.75	18	●
182-P/M/K	18.2	10.5	2.77	7.73	18	●
183-P/M/K	18.3	10.5	2.78	7.72	18	●
184-P/M/K	18.4	10.5	2.80	7.70	18	●
185-P/M/K	18.5	10.5	2.82	7.68	18	●
186-P/M/K	18.6	10.5	2.84	7.66	18	●
187-P/M/K	18.7	10.5	2.86	7.64	18	●
188-P/M/K	18.8	10.5	2.88	7.62	18	●
189-P/M/K	18.9	10.5	2.89	7.61	18	●
190-P/M/K	19.0	11.0	2.88	8.12	19	●
191-P/M/K	19.1	11.0	2.90	8.10	19	●
192-P/M/K	19.2	11.0	2.92	8.08	19	●
193-P/M/K	19.3	11.0	2.93	8.07	19	●
194-P/M/K	19.4	11.0	2.95	8.05	19	●
195-P/M/K	19.5	11.0	2.97	8.03	19	●
196-P/M/K	19.6	11.0	2.99	8.01	19	●
197-P/M/K	19.7	11.0	3.01	7.99	19	●
198-P/M/K	19.8	11.0	3.03	7.97	19	●
199-P/M/K	19.9	11.0	3.04	7.96	19	●



• Drill head can be ordered by an application
Order example) Diameter 10.0mm drill head for ISO P application: TCD-100-P TT9080

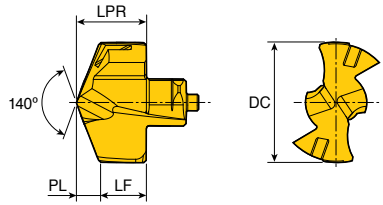
●: Standard items

P Steel M Stainless steel K Cast iron

TaeguTec

Drill heads





Designation	Dimension (mm)					Grade
	DC	LPR	PL	LF	SSC	TT9080
TCD - 200-P/M/K	20.0	11.6	3.02	8.58	20	●
201-P/M/K	20.1	11.6	3.04	8.56	20	●
202-P/M/K	20.2	11.6	3.06	8.54	20	●
203-P/M/K	20.3	11.6	3.07	8.53	20	●
204-P/M/K	20.4	11.6	3.09	8.51	20	●
205-P/M/K	20.5	11.6	3.11	8.49	20	●
206-P/M/K	20.6	11.6	3.13	8.47	20	●
207-P/M/K	20.7	11.6	3.15	8.45	20	●
208-P/M/K	20.8	11.6	3.17	8.43	20	●
209-P/M/K	20.9	11.6	3.18	8.42	20	●
210-P/M/K	21.0	12.1	3.18	8.92	21	●
211-P/M/K	21.1	12.1	3.20	8.90	21	●
212-P/M/K	21.2	12.1	3.22	8.88	21	●
213-P/M/K	21.3	12.1	3.23	8.87	21	●
214-P/M/K	21.4	12.1	3.25	8.85	21	●
215-P/M/K	21.5	12.1	3.27	8.83	21	●
216-P/M/K	21.6	12.1	3.29	8.81	21	●
217-P/M/K	21.7	12.1	3.31	8.79	21	●
218-P/M/K	21.8	12.1	3.33	8.77	21	●
219-P/M/K	21.9	12.1	3.34	8.76	21	●
220-P/M/K	22.0	12.7	3.24	9.46	22	●
221-P/M/K	22.1	12.7	3.26	9.44	22	●
222-P/M/K	22.2	12.7	3.28	9.42	22	●
223-P/M/K	22.3	12.7	3.29	9.41	22	●
224-P/M/K	22.4	12.7	3.31	9.39	22	●
225-P/M/K	22.5	12.7	3.33	9.37	22	●
226-P/M/K	22.6	12.7	3.35	9.35	22	●
227-P/M/K	22.7	12.7	3.37	9.33	22	●
228-P/M/K	22.8	12.7	3.39	9.31	22	●
229-P/M/K	22.9	12.7	3.40	9.30	22	●
230-P/M/K	23.0	13.3	3.46	9.84	23	●
231-P/M/K	23.1	13.3	3.48	9.82	23	●
232-P/M/K	23.2	13.3	3.50	9.80	23	●
233-P/M/K	23.3	13.3	3.51	9.79	23	●
234-P/M/K	23.4	13.3	3.53	9.77	23	●



• Drill head can be ordered by an application
Order example) Diameter 10.0mm drill head for ISO P application: TCD-100-P TT9080

●: Standard items

Ⓟ Steel Ⓜ Stainless steel Ⓚ Cast iron

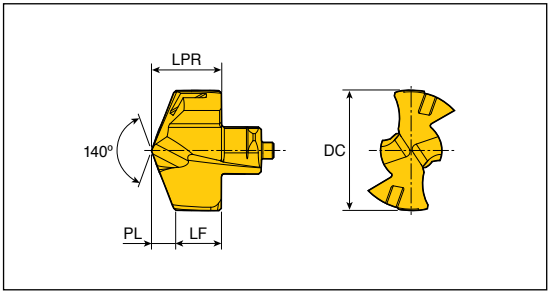
ADVANCE MACHINING
TaeguTec Industry 4.0

TCD...P/M/K

DRILLRUSH

Drill heads





Designation	Dimension (mm)					Grade
	DC	LPR	PL	LF	SSC	TT9080
TCD - 235-P/M/K	23.5	13.3	3.55	9.75	23	●
236-P/M/K	23.6	13.3	3.57	9.73	23	●
237-P/M/K	23.7	13.3	3.59	9.71	23	●
238-P/M/K	23.8	13.3	3.61	9.69	23	●
239-P/M/K	23.9	13.3	3.62	9.68	23	●
240-P/M/K	24.0	13.9	3.62	10.28	24	●
241-P/M/K	24.1	13.9	3.64	10.26	24	●
242-P/M/K	24.2	13.9	3.66	10.24	24	●
243-P/M/K	24.3	13.9	3.67	10.23	24	●
244-P/M/K	24.4	13.9	3.69	10.21	24	●
245-P/M/K	24.5	13.9	3.71	10.19	24	●
246-P/M/K	24.6	13.9	3.73	10.17	24	●
247-P/M/K	24.7	13.9	3.75	10.15	24	●
248-P/M/K	24.8	13.9	3.77	10.13	24	●
249-P/M/K	24.9	13.9	3.78	10.12	24	●
250-P/M/K	25.0	14.5	3.80	10.70	25	●
251-P/M/K	25.1	14.5	3.82	10.68	25	●
252-P/M/K	25.2	14.5	3.84	10.66	25	●
253-P/M/K	25.3	14.5	3.85	10.65	25	●
254-P/M/K	25.4	14.5	3.87	10.63	25	●
255-P/M/K	25.5	14.5	3.89	10.61	25	●
256-P/M/K	25.6	14.5	3.91	10.59	25	●
257-P/M/K	25.7	14.5	3.93	10.57	25	●
258-P/M/K	25.8	14.5	3.95	10.55	25	●
259-P/M/K	25.9	14.5	3.96	10.54	25	●

D51

• Drill head can be ordered by an application
Order example) Diameter 10.0mm drill head for ISO P application: TCD-100-P TT9080

●: Standard items

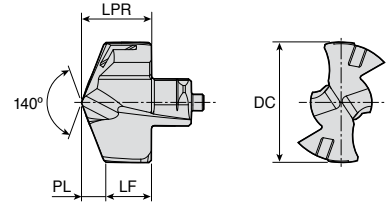
P Steel M Stainless steel K Cast iron

TaeguTec

TCD...N

Drill heads for aluminum alloy





Designation	Dimension (mm)					Grade
	DC	LPR	PL	LF	SSC	UF10
TCD - 060-N	6.0	4.00	0.96	3.04	6	●
065-N	6.5	4.30	1.18	3.12	6.5	●
070-N	7.0	4.60	1.01	3.59	7	●
075-N	7.5	4.60	1.10	3.50	7	●
080-N	8.0	5.40	1.20	4.20	8	●
085-N	8.5	5.40	1.29	4.11	8	●
090-N	9.0	5.80	1.35	4.45	9	●
095-N	9.5	5.80	1.44	4.36	9	●
100-N	10.0	6.20	1.50	4.70	10	●
105-N	10.5	6.20	1.59	4.61	10	●
110-N	11.0	6.60	1.67	4.93	11	●
115-N	11.5	6.60	1.76	4.84	11	●
120-N	12.0	7.00	1.82	5.18	12	●
125-N	12.5	7.00	1.91	5.09	12	●
130-N	13.0	7.60	1.96	5.64	13	●
135-N	13.5	7.60	2.05	5.55	13	●
140-N	14.0	8.15	2.12	6.03	14	●
145-N	14.5	8.15	2.21	5.94	14	●
150-N	15.0	8.73	2.27	6.46	15	●
155-N	15.5	8.73	2.36	6.37	15	●
160-N	16.0	9.30	2.42	6.88	16	●
165-N	16.5	9.30	2.51	6.79	16	●
170-N	17.0	9.90	2.59	7.31	17	●
175-N	17.5	9.90	2.68	7.22	17	●
180-N	18.0	10.50	2.73	7.77	18	●
185-N	18.5	10.50	2.82	7.68	18	●
190-N	19.0	11.00	2.88	8.12	19	●
195-N	19.5	11.00	2.97	8.03	19	●



• SSC: Seat size code

●: Standard items

N Nonferrous

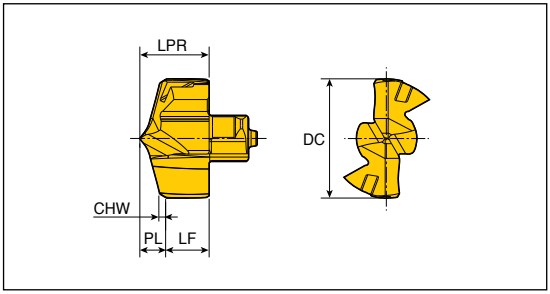
ADVANCE MACHINING
TaeguTec Industry 4.0

TCD-P+

DRILLRUSH

Self-centering drill heads





Designation	Dimension (mm)						Grade
	DC	LPR	PL	LF	CHW	SSC	TT9080
TCD-060-P+	6.0	4.00	1.46	2.54	0.5	6	●
065-P+	6.5	4.30	1.55	2.75	0.5	6.5	●
068-P+	6.8	4.30	1.59	2.71	0.5	6.5	●
070-P+	7.0	4.60	1.64	2.96	0.5	7	●
072-P+	7.2	4.60	1.67	2.93	0.5	7	●
075-P+	7.5	4.60	1.71	2.89	0.5	7	●
080-P+	8.0	5.40	1.81	3.59	0.5	8	●
081-P+	8.1	5.40	1.82	3.58	0.5	8	●
082-P+	8.2	5.40	1.84	3.56	0.5	8	●
083-P+	8.3	5.40	1.85	3.55	0.5	8	●
085-P+	8.5	5.40	1.88	3.52	0.5	8	●
086-P+	8.6	5.40	1.89	3.51	0.5	8	●
087-P+	8.7	5.40	1.90	3.50	0.5	8	●
088-P+	8.8	5.40	1.92	3.48	0.5	8	●
089-P+	8.9	5.40	1.93	3.47	0.5	8	●
090-P+	9.0	5.80	1.98	3.82	0.5	9	●
093-P+	9.3	5.80	2.02	3.78	0.5	9	●
095-P+	9.5	5.80	2.05	3.75	0.5	9	●
096-P+	9.6	5.80	2.06	3.74	0.5	9	●
097-P+	9.7	5.80	2.07	3.73	0.5	9	●
098-P+	9.8	5.80	2.09	3.71	0.5	9	●
099-P+	9.9	5.80	2.10	3.70	0.5	9	●
100-P+	10.0	6.20	2.33	3.87	0.7	10	●
101-P+	10.1	6.20	2.34	3.86	0.7	10	●
102-P+	10.2	6.20	2.36	3.84	0.7	10	●
103-P+	10.3	6.20	2.37	3.83	0.7	10	●
105-P+	10.5	6.20	2.40	3.80	0.7	10	●
106-P+	10.6	6.20	2.41	3.79	0.7	10	●
107-P+	10.7	6.20	2.42	3.78	0.7	10	●
108-P+	10.8	6.20	2.44	3.76	0.7	10	●
109-P+	10.9	6.20	2.45	3.75	0.7	10	●
110-P+	11.0	6.60	2.50	4.10	0.7	11	●
111-P+	11.1	6.60	2.51	4.09	0.7	11	●
112-P+	11.2	6.60	2.53	4.07	0.7	11	●
113-P+	11.3	6.60	2.54	4.06	0.7	11	●



• SSC: Seat size code

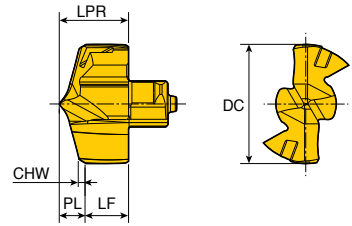
●: Standard items

TaeguTec

TCD-P+

Self-centering drill heads





Designation	Dimension (mm)						Grade
	DC	LPR	PL	LF	CHW	SSC	TT9080
TCD-114-P+	11.4	6.60	2.55	4.05	0.7	11	●
115-P+	11.5	6.60	2.57	4.03	0.7	11	●
116-P+	11.6	6.60	2.58	4.02	0.7	11	●
117-P+	11.7	6.60	2.59	4.01	0.7	11	●
118-P+	11.8	6.60	2.61	3.99	0.7	11	●
119-P+	11.9	6.60	2.62	3.98	0.7	11	●
120-P+	12.0	7.00	2.67	4.33	0.7	12	●
121-P+	12.1	7.00	2.68	4.32	0.7	12	●
122-P+	12.2	7.00	2.70	4.30	0.7	12	●
123-P+	12.3	7.00	2.71	4.29	0.7	12	●
124-P+	12.4	7.00	2.72	4.28	0.7	12	●
125-P+	12.5	7.00	2.74	4.26	0.7	12	●
126-P+	12.6	7.00	2.75	4.25	0.7	12	●
127-P+	12.7	7.00	2.76	4.24	0.7	12	●
128-P+	12.8	7.00	2.78	4.22	0.7	12	●
130-P+	13.0	7.60	2.85	4.75	0.7	13	●
131-P+	13.1	7.60	2.86	4.74	0.7	13	●
132-P+	13.2	7.60	2.88	4.72	0.7	13	●
133-P+	13.3	7.60	2.89	4.71	0.7	13	●
134-P+	13.4	7.60	2.90	4.70	0.7	13	●
135-P+	13.5	7.60	2.92	4.68	0.7	13	●
136-P+	13.6	7.60	2.93	4.67	0.7	13	●
137-P+	13.7	7.60	2.94	4.66	0.7	13	●
138-P+	13.8	7.60	2.96	4.64	0.7	13	●
139-P+	13.9	7.60	2.97	4.63	0.7	13	●
140-P+	14.0	8.15	3.02	5.13	0.7	14	●
141-P+	14.1	8.15	3.03	5.12	0.7	14	●
142-P+	14.2	8.15	3.05	5.10	0.7	14	●
143-P+	14.3	8.15	3.06	5.09	0.7	14	●
144-P+	14.4	8.15	3.07	5.08	0.7	14	●
145-P+	14.5	8.15	3.09	5.06	0.7	14	●
146-P+	14.6	8.15	3.10	5.05	0.7	14	●
147-P+	14.7	8.15	3.11	5.04	0.7	14	●
148-P+	14.8	8.15	3.13	5.02	0.7	14	●
150-P+	15.0	8.73	3.19	5.54	0.7	15	●



• SSC: Seat size code

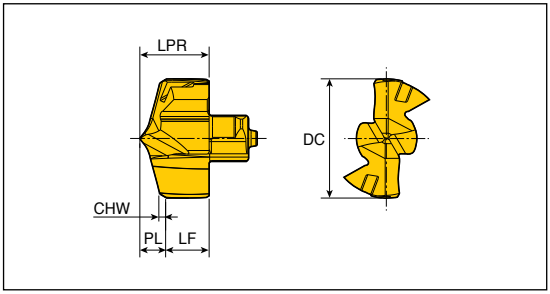
●: Standard items

TCD-P+

DRILLRUSH

Self-centering drill heads





Designation	Dimension (mm)						Grade
	DC	LPR	PL	LF	CHW	SSC	TT9080
TCD-151-P+	15.1	8.73	3.20	5.53	0.7	15	●
152-P+	15.2	8.73	3.22	5.51	0.7	15	●
153-P+	15.3	8.73	3.23	5.50	0.7	15	●
154-P+	15.4	8.73	3.24	5.49	0.7	15	●
155-P+	15.5	8.73	3.26	5.47	0.7	15	●
156-P+	15.6	8.73	3.27	5.46	0.7	15	●
157-P+	15.7	8.73	3.28	5.45	0.7	15	●
158-P+	15.8	8.73	3.30	5.43	0.7	15	●
159-P+	15.9	8.73	3.31	5.42	0.7	15	●
160-P+	16.0	9.30	3.46	5.84	0.81	16	●
161-P+	16.1	9.30	3.47	5.83	0.81	16	●
162-P+	16.2	9.30	3.49	5.81	0.81	16	●
163-P+	16.3	9.30	3.50	5.80	0.81	16	●
164-P+	16.4	9.30	3.51	5.79	0.81	16	●
165-P+	16.5	9.30	3.53	5.77	0.81	16	●
166-P+	16.6	9.30	3.54	5.76	0.81	16	●
167-P+	16.7	9.30	3.55	5.75	0.81	16	●
168-P+	16.8	9.30	3.57	5.73	0.81	16	●
170-P+	17.0	9.90	3.63	6.27	0.81	17	●
171-P+	17.1	9.90	3.64	6.26	0.81	17	●
172-P+	17.2	9.90	3.66	6.24	0.81	17	●
173-P+	17.3	9.90	3.67	6.23	0.81	17	●
174-P+	17.4	9.90	3.68	6.22	0.81	17	●
175-P+	17.5	9.90	3.70	6.20	0.81	17	●
176-P+	17.6	9.90	3.71	6.19	0.81	17	●
177-P+	17.7	9.90	3.72	6.18	0.81	17	●
178-P+	17.8	9.90	3.74	6.16	0.81	17	●
179-P+	17.9	9.90	3.75	6.15	0.81	17	●
180-P+	18.0	10.50	3.81	6.69	0.81	18	●
181-P+	18.1	10.50	3.82	6.68	0.81	18	●
182-P+	18.2	10.50	3.84	6.66	0.81	18	●
183-P+	18.3	10.50	3.85	6.65	0.81	18	●
185-P+	18.5	10.50	3.88	6.62	0.81	18	●
186-P+	18.6	10.50	3.89	6.61	0.81	18	●
187-P+	18.7	10.50	3.90	6.60	0.81	18	●



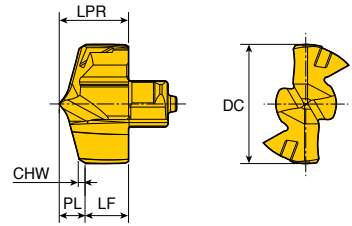
• SSC: Seat size code

●: Standard items

TCD-P+

Self-centering drill heads





Designation	Dimension (mm)						Grade
	DC	LPR	PL	LF	CHW	SSC	TT9080
TCD-188-P+	18.8	10.50	3.92	6.58	0.81	18	●
190-P+	19.0	11.00	3.98	7.02	0.81	19	●
191-P+	19.1	11.00	3.99	7.01	0.81	19	●
192-P+	19.2	11.00	4.01	6.99	0.81	19	●
193-P+	19.3	11.00	4.02	6.98	0.81	19	●
194-P+	19.4	11.00	4.03	6.97	0.81	19	●
195-P+	19.5	11.00	4.05	6.95	0.81	19	●
196-P+	19.6	11.00	4.06	6.94	0.81	19	●
197-P+	19.7	11.00	4.07	6.93	0.81	19	●
198-P+	19.8	11.00	4.09	6.91	0.81	19	●
199-P+	19.9	11.00	4.10	6.90	0.81	19	●
200-P+	20.0	11.60	4.15	7.45	0.81	20	●
201-P+	20.1	11.60	4.16	7.44	0.81	20	●
202-P+	20.2	11.60	4.18	7.42	0.81	20	●
205-P+	20.5	11.60	4.22	7.38	0.81	20	●
206-P+	20.6	11.60	4.23	7.37	0.81	20	●
207-P+	20.7	11.60	4.24	7.36	0.81	20	●
210-P+	21.0	12.18	4.32	7.86	0.81	21	●
212-P+	21.2	12.18	4.35	7.83	0.81	21	●
213-P+	21.3	12.18	4.36	7.82	0.81	21	●
214-P+	21.4	12.18	4.37	7.81	0.81	21	●
215-P+	21.5	12.18	4.39	7.79	0.81	21	●
218-P+	21.8	12.18	4.43	7.75	0.81	21	●
220-P+	22.0	12.76	4.50	8.26	0.81	22	●
225-P+	22.5	12.76	4.57	8.19	0.81	22	●
229-P+	22.9	12.76	4.62	8.14	0.81	22	●
230-P+	23.0	13.33	4.67	8.66	0.81	23	●
235-P+	23.5	13.33	4.74	8.59	0.81	23	●
240-P+	24.0	13.90	4.84	9.06	0.81	24	●
245-P+	24.5	13.90	4.91	8.99	0.81	24	●
250-P+	25.0	14.50	5.01	9.49	0.81	25	●
254-P+	25.4	14.50	5.06	9.44	0.81	25	●
255-P+	25.5	14.50	5.08	9.42	0.81	25	●
256-P+	25.6	14.50	5.09	9.41	0.81	25	●
257-P+	25.7	14.50	5.10	9.40	0.81	25	●



• SSC: Seat size code

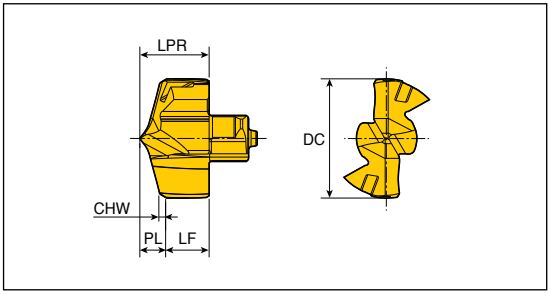
●: Standard items

ADVANCE MACHINING
TaeguTec Industry 4.0

TCD-P+

Self-centering drill heads





Designation	Dimension (mm)						Grade
	DC	LPR	PL	LF	CHW	SSC	TT9080
TCD-258-P+	25.8	14.50	5.12	9.38	0.81	25	●
259-P+	25.9	14.50	5.13	9.37	0.81	25	●



• SSC: Seat size code

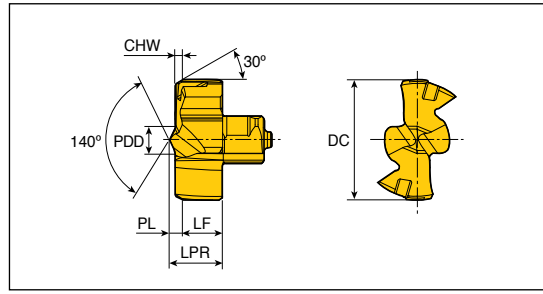
●: Standard items

TaeguTec

TCD...F

Drill heads for flat bottom hole





Designation	Dimension (mm)							Grade
	DC	PDD	LPR	PL	LF	CHW	SSC	TT9080
TCD - 080-F	8.0	2.33	4.4	1.09	3.3	0.7	8	●
085-F	8.5	2.33	4.4	1.09	3.3	0.7	8	●
090-F	9.0	2.29	4.6	1.11	3.5	0.7	9	●
095-F	9.5	2.29	4.6	1.11	3.5	0.7	9	●
100-F	10.0	2.44	4.9	1.17	3.7	0.7	10	●
105-F	10.5	2.44	4.9	1.17	3.7	0.7	10	●
110-F	11.0	3.09	5.1	1.25	3.8	0.7	11	●
115-F	11.5	3.09	5.1	1.25	3.8	0.7	11	●
120-F	12.0	2.95	5.4	1.26	4.1	0.7	12	●
125-F	12.5	2.95	5.4	1.26	4.1	0.7	12	●
130-F	13.0	3.04	5.7	1.30	4.4	0.7	13	●
135-F	13.5	3.04	5.7	1.30	4.4	0.7	13	●
140-F	14.0	3.30	6.1	1.31	4.8	0.7	14	●
145-F	14.5	3.30	6.1	1.31	4.8	0.7	14	●
150-F	15.0	3.54	6.6	1.35	5.23	0.7	15	●
155-F	15.5	3.54	6.6	1.35	5.23	0.7	15	●
160-F	16.0	3.74	7.0	1.39	5.6	0.7	16	●
165-F	16.5	3.74	7.0	1.39	5.6	0.7	16	●
170-F	17.0	3.75	7.3	1.40	5.9	0.7	17	●
175-F	17.5	3.75	7.3	1.40	5.9	0.7	17	●
180-F	18.0	3.85	7.6	1.42	6.18	0.7	18	●
185-F	18.5	3.85	7.6	1.42	6.18	0.7	18	●
190-F	19.0	3.86	7.9	1.44	6.5	0.7	19	●
195-F	19.5	3.86	7.9	1.44	6.5	0.7	19	●
200-F	20.0	6.76	9.3	1.77	7.5	0.7	20	●
205-F	20.5	6.76	9.3	1.77	7.5	0.7	20	●
210-F	21.0	6.98	9.7	1.79	7.9	0.7	21	●
215-F	21.5	6.98	9.7	1.79	7.9	0.7	21	●
220-F	22.0	7.42	10.0	1.81	8.2	0.7	22	●
225-F	22.5	7.42	10.0	1.81	8.2	0.7	22	●
230-F	23.0	7.60	10.4	1.83	8.6	0.7	23	●
235-F	23.5	7.60	10.4	1.83	8.6	0.7	23	●
240-F	24.0	8.13	10.9	1.86	9.0	0.7	24	●
245-F	24.5	8.13	10.9	1.86	9.0	0.7	24	●
250-F	25.0	8.16	11.3	1.89	9.4	0.7	25	●



• SSC: Seat size code

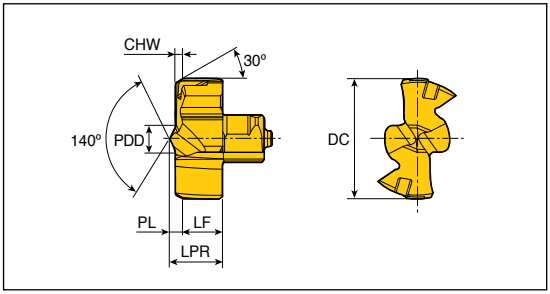
●: Standard items

ADVANCE MACHINING
TaeguTec Industry 4.0

TCD...F

Drill heads for flat bottom hole





Designation	Dimension (mm)							Grade
	DC	PDD	LPR	PL	LF	CHW	SSC	TT9080
TCD - 254-F	25.4	8.16	11.3	1.89	9.4	0.7	25	●
255-F	25.5	8.16	11.3	1.89	9.4	0.7	25	●


D51

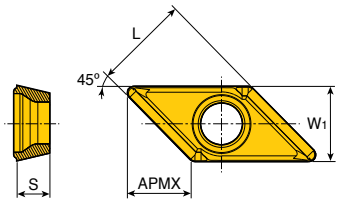
• SSC: Seat size code

●: Standard items

AOMT 060204-C45

DRILLRUSH

Chamfering inserts for pre-thread hole



Size	Dimension (mm)			
	W1	L	S	APMX
06	4.5	5.66	1.96	4.0

Insert	Designation	Coated						Uncoated			
		TT9080	TT9030	TT8020	TT6030	TT9300	TT7400	K10			
	**AOMT 060204-C45**	●									

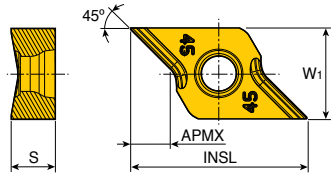
●: Standard items

D60

CRNG 0802-45CD

DRILLRUSH

Chamfering inserts for chamfering ring



Size	Dimension (mm)			
	W1	INSL	S	APMX
08	7.5	14.80	3.65	3.3

Insert	Designation	Coated						Uncoated			
		TT9080	TT9030	TT8020	TT6030	TT9300	TT7400	K10			
	**CRNG 0802-45CD**	●									

●: Standard items

D61

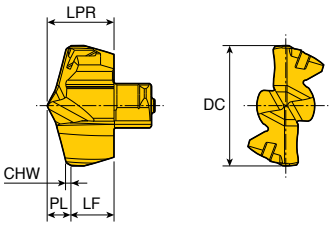
ADVANCE MACHINING
TaeguTec Industry 4.0

TCD...P-CO+

MODURDRILL

Self-centering drill heads





Designation	Dimension (mm)						Grade
	DC	LPR	PL	LF	CHW	SSC	TT9080
TCD-159-P-CO+	15.9	8.73	3.17	5.56	0.7	15	●
169-P-CO+	16.9	9.30	3.34	5.96	0.81	16	●
179-P-CO+	17.9	9.90	3.50	6.40	0.81	17	●
189-P-CO+	18.9	10.50	3.66	6.84	0.81	18	●
199-P-CO+	19.9	11.00	3.82	7.18	0.81	19	●
209-P-CO+	20.9	11.60	3.98	7.62	0.81	20	●
219-P-CO+	21.9	12.18	4.15	8.03	0.81	21	●
229-P-CO+	22.9	12.76	4.31	8.45	0.81	22	●
239-P-CO+	23.9	13.33	4.48	8.85	0.81	23	●
249-P-CO+	24.9	13.90	4.64	9.26	0.81	24	●
259-P-CO+	25.9	14.50	4.81	9.69	0.81	25	●



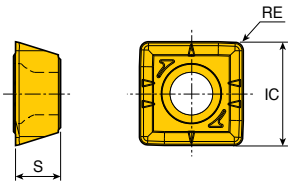
• SSC: Seat size code

●: Standard items

SPGX...DW

MODURDRILL

Inserts



Size	Dimension (mm)			
	IC	S	RE	
06	6.07	2.38	0.4	
07	8.02	3.97	0.8	
09	9.91	4.30	0.8	
11	11.62	4.80	0.8	
14	14.41	5.20	1.2	

Insert	Designation	Coated								Uncoated			
		TT9080	TT8020	TT9300	TT9030	TT6030	TT7400			K10			
	**SPGX 060204 DW**	●											
	07T308 DW	●											
	090408 DW	●											
	110408 DW	●											
	140512 DW	●											



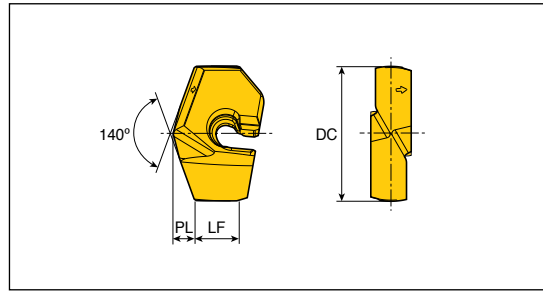
●: Standard items

TaeguTec

LCD...-P

Drill heads





Designation	Dimension (mm)				Grade
	DC	PL	LF	SSC	TT9080
LCD- 200-P	20.0	3.11	6.54	20	●
205-P	20.5	3.20	6.45	20	●
210-P	21.0	3.29	6.36	21	●
215-P	21.5	3.38	6.27	21	●
220-P	22.0	3.42	7.12	22	●
225-P	22.5	3.51	7.03	22	●
230-P	23.0	3.60	6.94	23	●
235-P	23.5	3.69	6.85	23	●
240-P	24.0	3.73	7.03	24	●
245-P	24.5	3.82	6.94	24	●
250-P	25.0	3.91	6.85	25	●
255-P	25.5	4.00	6.76	25	●
260-P	26.0	4.04	7.51	26	●
265-P	26.5	4.13	7.42	26	●
270-P	27.0	4.22	7.33	27	●
275-P	27.5	4.31	7.24	27	●
280-P	28.0	4.35	7.39	28	●
285-P	28.5	4.44	7.30	28	●
290-P	29.0	4.53	7.21	29	●
295-P	29.5	4.62	7.12	29	●
300-P	30.0	4.67	9.47	30	●
305-P	30.5	4.76	9.38	30	●
310-P	31.0	4.85	9.29	31	●
315-P	31.5	4.94	9.20	31	●
320-P	32.0	4.98	9.55	32	●
325-P	32.5	5.07	9.46	32	●
330-P	33.0	5.16	9.37	33	●
335-P	33.5	5.25	9.28	33	●
340-P	34.0	5.34	9.19	34	●
345-P	34.5	5.44	9.10	34	●
350-P	35.0	5.44	11.12	35	●
355-P	35.5	5.53	11.03	35	●
360-P	36.0	5.62	10.94	36	●
365-P	36.5	5.71	10.85	36	●
370-P	37.0	5.80	10.76	37	●



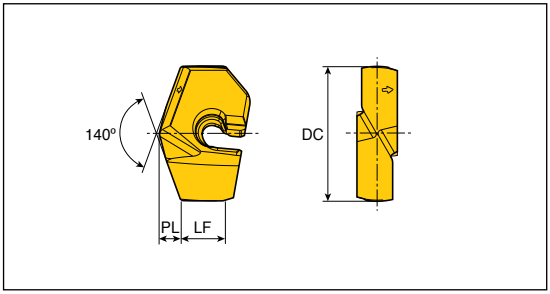
• SSC: Seat size code

●: Standard items

LCD...-P

Drill heads





Designation	Dimension (mm)				Grade
	DC	PL	LF	SSC	TT9080
LCD- 375-P	37.5	5.90	10.67	37	●
380-P	38.0	5.91	11.09	38	●
385-P	38.5	6.00	11.00	38	●
390-P	39.0	6.09	10.91	39	●
395-P	39.5	6.18	10.82	39	●
400-P	40.0	6.27	10.73	40	●
405-P	40.5	6.37	10.64	40	●
410-P	41.0	6.46	10.54	40	●


D66

• SSC: Seat size code

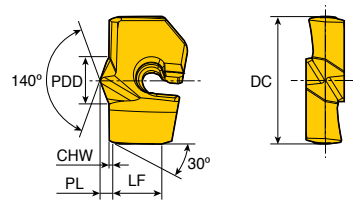
●: Standard items

TaeguTec

LCD...-F

Drill heads for flat bottom hole





Designation	Dimension (mm)						Grade
	DC	PL	LF	CHW	SSC	PDD	TT9080
LCD - 200-F	20.0	2.18	7.63	0.7	20	8.3	●
205-F	20.5	2.18	7.63	0.7	20	8.3	●
210-F	21.0	2.18	7.63	0.7	20	8.3	●
215-F	21.5	2.18	7.63	0.7	20	8.3	●
220-F	22.0	2.38	8.17	0.7	22	9.0	●
225-F	22.5	2.38	8.17	0.7	22	9.0	●
230-F	23.0	2.38	8.17	0.7	22	9.0	●
235-F	23.5	2.38	8.17	0.7	22	9.0	●
240-F	24.0	2.52	8.10	0.7	24	10.0	●
245-F	24.5	2.52	8.10	0.7	24	10.0	●
250-F	25.0	2.52	8.10	0.7	24	10.0	●
255-F	25.5	2.52	8.10	0.7	24	10.0	●
260-F	26.0	2.48	9.84	0.7	26	10.5	●
265-F	26.5	2.48	9.84	0.7	26	10.5	●
270-F	27.0	2.48	9.84	0.7	26	10.5	●
275-F	27.5	2.48	9.84	0.7	26	10.5	●
280-F	28.0	2.72	9.50	0.7	28	11.6	●
285-F	28.5	2.72	9.50	0.7	28	11.6	●
290-F	29.0	2.72	9.50	0.7	28	11.6	●
295-F	29.5	2.72	9.50	0.7	28	11.6	●
300-F	30.0	2.80	11.63	0.7	30	12.4	●
305-F	30.5	2.80	11.63	0.7	30	12.4	●
310-F	31.0	2.80	11.63	0.7	30	12.4	●
315-F	31.5	2.80	11.63	0.7	30	12.4	●
320-F	32.0	3.13	11.59	0.7	32	13.6	●
325-F	32.5	3.13	11.59	0.7	32	13.6	●
330-F	33.0	3.13	11.59	0.7	32	13.6	●
335-F	33.5	3.13	11.59	0.7	32	13.6	●
340-F	34.0	3.13	11.59	0.7	32	13.6	●
345-F	34.5	3.13	11.59	0.7	32	13.6	●
350-F	35.0	3.31	13.20	0.7	35	14.6	●
355-F	35.5	3.31	13.20	0.7	35	14.6	●
360-F	36.0	3.31	13.20	0.7	35	14.6	●
365-F	36.5	3.31	13.20	0.7	35	14.6	●
370-F	37.0	3.31	13.20	0.7	35	14.6	●



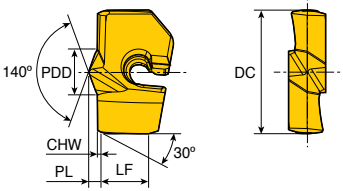
• SSC: Seat size code

●: Standard items

LCD...-F

Drill heads for flat bottom hole





Designation	Dimension (mm)						Grade
	DC	PL	LF	CHW	SSC	PDD	TT9080
LCD - 375-F	37.5	3.31	13.20	0.7	35	14.6	●
380-F	38.0	3.49	13.32	0.7	38	15.9	●
385-F	38.5	3.49	13.32	0.7	38	15.9	●
390-F	39.0	3.49	13.32	0.7	38	15.9	●
395-F	39.5	3.49	13.32	0.7	38	15.9	●
400-F	40.0	3.49	13.32	0.7	38	15.9	●
405-F	40.5	3.49	13.32	0.7	38	15.9	●
410-F	41.0	3.49	13.32	0.7	38	15.9	●



• SSC: Seat size code

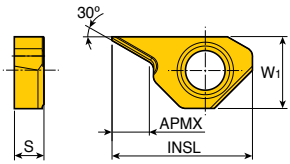
●: Standard items

TaeguTec
Member IMC Group

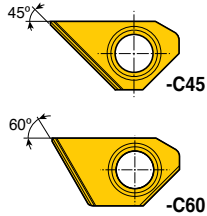
XCGT ...-C

T-CHAMFER

Chamfering inserts for T-CHAMFER holder



-C30



Size	Dimension (mm)			
	W_1	INSL	S	APMX
06-C30	6.18	12.3	2.8	3.49
09-C30	8.50	16.0	3.3	4.43
06-C45	6.18	12.3	2.8	5.89
09-C45	8.50	16.0	3.3	8.07
06-C60	6.18	12.3	2.8	3.43
09-C60	8.50	16.0	3.3	4.78

Insert	Designation	Coated						Uncoated
		TT9080	TT9030	TT8020	TT6030	TT9300	TT7400	K10
	**XCGT 0603-C30**	●						
	0903-C30	●						
	**XCGT 0603-C45**	●						
	0903-C45	●						
	**XCGT 0603-C60**	●						
	0903-C60	●						

●: Standard items

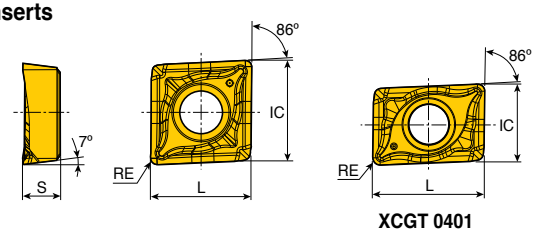


ADVANCE MACHINING
TaeguTec Industry 4.0

XCGT...TA

TOPCAP

Inserts



XCGT 0401

Size	Dimension (mm)			
	IC	L	S	RE
04	4.4	6.4	1.70	0.4
05	5.6	5.6	2.10	0.4
06	6.4	6.4	2.38	0.4
07	7.5	7.5	3.18	0.4
08	8.4	8.4	3.18	0.4
10	10.5	10.5	3.97	0.4
13	13.4	13.4	4.76	0.4
17	17.5	17.5	5.56	0.8

• For aluminum alloy

Insert	Designation	Turning		Drilling	Coated						Uncoated
		ap (mm)	Feed (mm/rev)	Feed (mm/rev)	TT9080	TT8020	TT9300	TT9030	TT6030	TT7400	K10
 Right hand shown (XCGT 0401) 	**XCGT 040104R TA**	0.2-1.8	0.02-0.15	0.02-0.09							●
	040104L TA	0.2-1.8	0.02-0.15	0.02-0.09							●
	050204 TA	0.2-2.2	0.03-0.18	0.02-0.11							●
	060204 TA	0.3-2.5	0.03-0.20	0.03-0.12							●
	070304 TA	0.4-2.8	0.05-0.22	0.03-0.13							●
	080304 TA	0.4-3.2	0.06-0.25	0.03-0.13							●
	10T304 TA	0.5-3.5	0.06-0.30	0.03-0.13							●
	130404 TA	0.6-4.3	0.08-0.33	0.03-0.13							●
	170508 TA	0.7-5.3	0.10-0.38	0.03-0.13							●

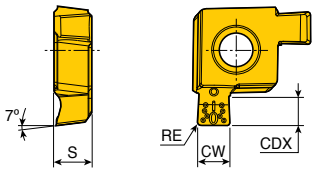


●: Standard items

XCMT..R-GV

TOPCAP

Inserts



Size	Dimension (mm)			
	CW	CDX	S	RE
05	2.0	1.8	2.28	0.2
06	2.0	2.0	2.65	0.2
07	2.5	2.0	3.41	0.2
08	2.5	2.5	3.50	0.2
10	3.0	3.0	4.34	0.3
13	3.5	3.5	5.18	0.3
17	4.0	4.0	6.00	0.4

• For grooving

Insert	Designation	Coated						Uncoated
		TT9080	TT8020	TT9300	TT9030	TT6030	TT7400	K10
	**XCMT 05R-200020GV**	●	●					
	06R-200020GV	●	●					
	07R-250020GV	●	●					
	08R-250020GV	●	●					
	10R-300030GV	●	●					
	13R-350030GV	●	●					
	17R-400040GV	●	●					



• Grooving insert is available only for right handed type

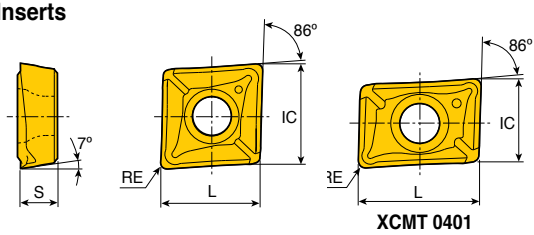
●: Standard items

TaeguTec

XCMT...TC

TOPCAP

Inserts



XCMT 0401

Size	Dimension (mm)			
	IC	L	S	RE
04	4.4	6.4	1.70	0.4
05	5.6	5.6	2.10	0.4
06	6.4	6.4	2.38	0.4
07	7.5	7.5	3.18	0.4
08	8.4	8.4	3.18	0.4
10	10.5	10.5	3.97	0.4/0.8
13	13.4	13.4	4.76	0.4/0.8
17	17.4	17.4	5.56	0.8

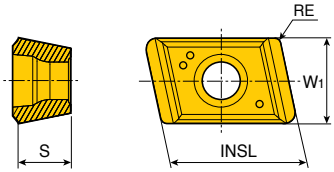
• For drilling, boring and turning

Insert	Designation	Turning		Drilling	Coated						Uncoated
		ap (mm)	Feed (mm/rev)	Feed (mm/rev)	TT9080	TT8020	TT9300	TT9030	TT6030	TT7400	K10
 Right hand shown (XCMT 0401) 	**XCMT 040104R TC**	0.2-1.8	0.02-0.15	0.02-0.09	●	●		●			
	040104L TC	0.2-1.8	0.02-0.15	0.02-0.09	●	●		●			
	050204 TC	0.2-2.2	0.03-0.18	0.02-0.11	●	●		●			
	060204 TC	0.3-2.5	0.03-0.20	0.03-0.12	●	●		●			
	070304 TC	0.4-2.8	0.05-0.22	0.03-0.13	●	●		●			
	080304 TC	0.4-3.2	0.06-0.25	0.03-0.13	●	●		●			
	10T304 TC	0.5-3.5	0.06-0.30	0.03-0.13	●	●		●			
	10T308 TC	0.5-3.5	0.06-0.30	0.03-0.13	●	●		●			
	130404 TC	0.6-4.3	0.08-0.33	0.03-0.13	●	●		●			
	130408 TC	0.6-4.3	0.08-0.33	0.03-0.13	●	●		●			
	170508 TC	0.7-5.3	0.10-0.38	0.03-0.13	●	●		●			

●: Standard items

NPHT...R-G-P/R-HF-P

Inserts for TBTA-FB & TRGD



Size	Dimension (mm)			
	W_1	INSL	S	RE
06	6.0	8	3.0	0.4/0.8
08	7.5	10	4.0	0.4/0.8
09	9.0	10	4.0	0.4/0.8
11	11.0	10	4.0	0.4/0.8
13	13.0	10	4.0	0.4/0.8

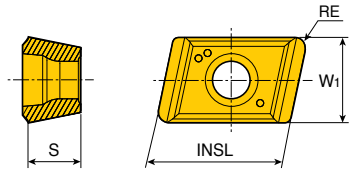
Insert	Designation	Pocket			Coated							Uncoated
		Center	Inner	Outer	TT9030	TT9130	TT8125	TT7200	TT6130	TT6020	TT5100	TT5030	K10
	**NPHT 060304R-G-P**			●	●				●			●	
	060308R-G-P			●	●	●			●			●	
	060308R-HF-P			●	●	●			●			●	
	080404R-G-P			●	●				●			●	
	080408R-G-P			●	●	●			●			●	
	080408R-HF-P			●	●	●			●			●	
	090404R-G-P			●	●				●			●	
	090408R-G-P			●	●	●			●			●	
	090408R-HF-P			●	●	●			●			●	
	110404R-G-P			●	●				●			●	
	110408R-G-P			●	●	●			●			●	
	110408R-HF-P			●	●	●			●			●	
	130404R-G-P			●	●				●			●	
	130408R-G-P			●	●	●			●			●	
	130404R-HF-P			●	●	●			●			●	



●: Standard items

NPMT...L-G-C/L-HF-C

Inserts for TBTA-FB & TRGD



Size	Dimension (mm)			
	W1	INSL	S	RE
06	5.5	8	3.0	0.8
07	6.5	10	4.0	0.8
08	8.0	10	4.0	0.8
10	10.0	10	4.0	0.8
13	12.5	10	4.0	0.8

Insert	Designation	Pocket			Coated							Uncoated
		Center	Inner	Outer	TT9030	TT9130	TT8125	TT7200	TT6130	TT6020	TT5100	TT5030	K10
	**NPMT 060308L-G-C**	●			●	●	●		●			●	
	060308L-HF-C	●			●	●	●		●			●	
	070408L-G-C	●			●	●	●		●			●	
	070408L-HF-C	●			●	●	●		●			●	
	080408L-G-C	●			●	●	●		●			●	
	080408L-HF-C	●			●	●	●		●			●	
	100408L-G-C	●			●	●	●		●			●	
	100408L-HF-C	●			●	●	●		●			●	
	130408L-G-C	●			●	●	●		●			●	
	130408L-HF-C	●			●	●	●		●			●	

●: Standard items

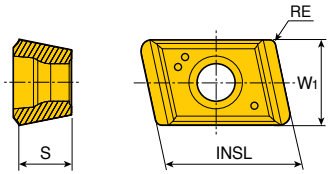

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ADVANCE MACHINING
TaeguTec Industry 4.0

NPMT...R-G-I/R-HF-I

TDEEP

Inserts for TBTA-FB & TRGD



Size	Dimension (mm)			
	W1	INSL	S	RE
06	5.5	8	3.0	0.4
07	6.5	10	4.0	0.4
08	8.0	10	4.0	0.4
10	10.0	10	4.0	0.4
13	12.5	10	4.0	0.4

Insert	Designation	Pocket			Coated							Uncoated
		Center	Inner	Outer	TT9030	TT9130	TT8125	TT7200	TT6130	TT6020	TT5100	TT5030	K10
	**NPMT 060304R-G-I**		●		●	●	●		●			●	
	060304R-HF-I		●		●	●	●		●			●	
	070404R-G-I		●		●	●	●		●			●	
	070404R-HF-I		●		●	●	●		●			●	
	080404R-G-I		●		●	●	●		●			●	
	080404R-HF-I		●		●	●	●		●			●	
	100404R-G-I		●		●	●	●		●			●	
	100404R-HF-I		●		●	●	●		●			●	
	130404R-G-I		●		●	●	●		●			●	
	130404R-HF-I		●		●	●	●		●			●	

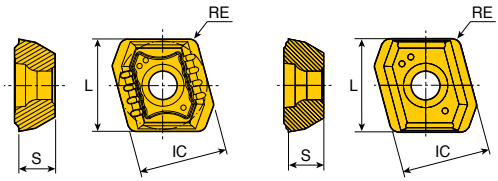
●: Standard items


D115 D147

NPMX...R-B/R-G

TDEEP

Inserts for TBTA...3/5/7/9



R-B R-G

Size	Dimension (mm)			
	IC	L	S	RE
08	8.0	8.36	3.18	0.8

Insert	Designation	Pocket			Coated							Uncoated	
		Center	Inner	Outer	TT9030	TT8125	TT7200	TT6130	TT6020	TT5100	TT5030	K10	
	**NPMX 080308R-B**	●	●	●	●	●		●					
	080308R-G	●	●	●	●	●			●	●			

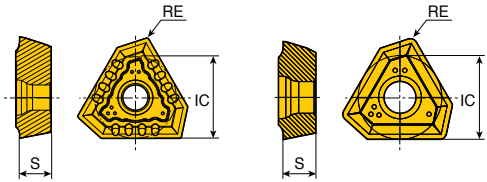
●: Standard items



TPMX...R-B/R-G

TDEEP

Inserts for TBTA...3/5/7/9 & TBTA-R



R-B R-G

Size	Dimension (mm)			
	IC	S	RE	
140304 R-B	8.45	3.5	0.4	
140308 R-B/R-G	8.45	3.5	0.8	
170404 R-B	10.30	4.0	0.4	
170408 R-B/R-G	10.30	4.0	0.8	
240504 R-B	14.20	5.5	0.4	
240512 R-B/R-G	14.20	5.5	1.2	
280708 R-B	17.00	7.5	0.8	
280716 R-B/R-G	17.00	7.5	1.6	

Insert	Designation	Pocket			Coated								Uncoated	
		Center	Inner	Outer	TT9030	TT9130	TT8125	TT7200	TT6130	TT6020	TT5100	TT5030	K10	
	**TPMX 140304R-B**	●	●	●	●		●		●					
	140308R-B	●	●	●		●						●		
	140308R-G	●	●	●	●	●	●	●		●	●	●		
	170404R-B	●	●	●	●		●		●					
	170408R-B	●	●	●		●						●		
	170408R-G	●	●	●	●	●	●	●		●	●	●		
	240504R-B	●	●	●	●		●		●					
	240512R-B	●	●	●		●						●		
	240512R-G	●	●	●	●	●	●	●		●	●	●		
	280708R-B	●	●	●	●		●		●					
	280716R-B	●	●	●		●						●		
	280716R-G	●	●	●	●	●	●	●		●	●	●		

●: Standard items



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TOGT…RS/GF

Inserts for TBTA-TR & TRGD

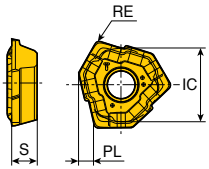


Fig.1

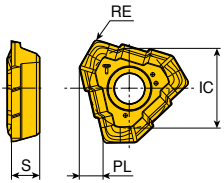


Fig.2

Size	Dimension (mm)			
	IC	PL	S	RE
07	7.69	2.0	2.3	0.4
08	8.32	2.2	2.8	0.5
09	8.55	3.0	3.0	0.5
10	9.23	3.2	3.3	0.5
11	10.40	3.4	3.8	0.5
12	11.59	3.7	4.3	0.5
13	12.85	4.6	4.8	0.8
14	16.85	5.4	5.3	1.0

Insert	Designation	Fig.	Coated						Uncoated
			TT9030	TT8125	TT7200	TT6130	TT6020	TT5100	TT5030	K10
	**TOGT 070304 RS**	1	●							
	070304 GF	1	●							
	080305 RS	1	●							
	080305 GF	1	●							
	090305 RS	2	●							
	090305 GF	2	●							
	100305 RS	2	●							
	100305 GF	2	●							
	110405 RS	2	●							
	110405 GF	2	●							
	120405 RS	2	●							
	120405 GF	2	●							
	130408 RS	2	●							
	130408 GF	2	●							
	140510 RS	2	●							



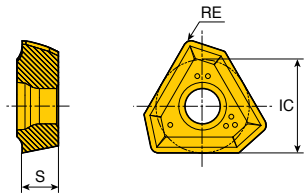
- RS: First choice for general purpose
- GF: Exotic materials

●: Standard items

TPMX...LG

TDEEP

Inserts for TBTA-R



Size	Dimension (mm)			
	IC	S	RE	
14	8.45	3.5	0.8	
17	10.30	4.0	0.8	
24	14.20	5.5	1.2	

Insert	Designation	Pocket			Coated							Uncoated		
		Center	Inner	Outer	TT9030	TT9130	TT8125	TT7200	TT6130	TT6020	TT5100	TT5030	K10	
	**TPMX 140308 LG**			●	●						●			
	170408 LG			●	●	●				●	●			
	240512 LG			●	●	●				●	●			

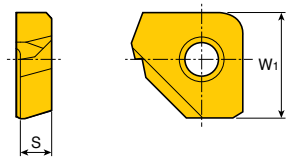


●: Standard items

XPMT...-45

TDEEP

Inserts for TBTA-R



Size	Dimension (mm)			
	W_1	S		
16	9.5	2.70		

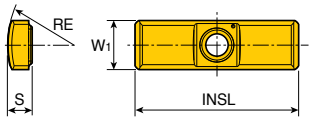
Insert	Designation	Pocket			Coated							Uncoated	
		Center	Inner	Outer	TT9030	TT8125	TT7100	TT3500	TT6020	TT9300	TT7400	K10	
	**XPMT 16002-45**			●	●								



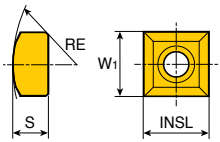
●: Standard items

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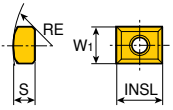
Pad for TBTA 3.../5.../7.../9...



Guide pad



Guide pad protector



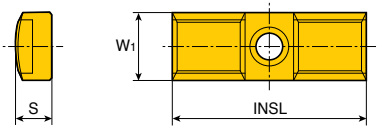
Sub guide pad

Designation		Dimension (mm)				Screw
		W1	S	INSL	RE	
Guide pad	**PAD - GP08-25-155-DC-SB**	8	4.5	25	15.5	CSTB3S
	GP08-25-155-DC-SC	8	4.5	25	15.5	CSTB3S
	GP10-35-200-DC-SB	10	6.0	35	20.0	CSTB4S
	GP10-35-200-DC-SC	10	6.0	35	20.0	CSTB4S
	GP14-40-250-DC-SB/SC	14	7.5	40	25.0	CSTA5S
	GP18-40-300-DC-SB/SC	18	9.0	40	30.0	LS1206S
Guide pad protector	**PAD - P08**	8	4.5	8	17.5	CSTB3S
	P10	10	6.0	10	20.0	CSTB4S
	P14	14	7.5	14	25.0	CSTA5S
	P18	18	9.0	18	30.0	LS1206S
Sub guide pad	**PAD - S08**	8	4.5	10	17.5	CSTB3S
	S10	10	5.0	10	29.0	CSTB3S
	S14	14	7.0	20	45.0	CCSTA5S

D99

Plus Guide Pad for TBTA 3.../5.../7.../9...





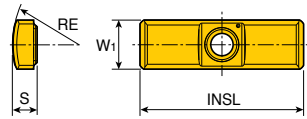
• Plus guide pad for diameter enlargement

Designation										
DC	DC+1mm	S	DC+2mm	S	DC+3mm	S	DC+4mm	S	DC+5mm	S
PAD-GC08	**PAD-GC08+1**	5.0	**PAD-GC08+2**	5.5	**PAD-GC08+3**	6.0	**-**	-	**-**	-
PAD-GC10	**PAD-GC10+1**	6.5	**PAD-GC10+2**	7.0	**PAD-GC10+3**	7.5	**PAD-GC10+4**	8.0	**-**	-
PAD-GC14	**PAD-GC14+1**	8.0	**PAD-GC14+2**	8.5	**PAD-GC14+3**	9.0	**PAD-GC14+4**	9.5	**PAD-GC14+5**	10.0
PAD-GC18	**PAD-GC18+1**	9.5	**PAD-GC18+2**	10	**PAD-GC18+3**	10.5	**PAD-GC18+4**	11.0	**PAD-GC18+5**	11.5

D99

Pad for TBTA-FB





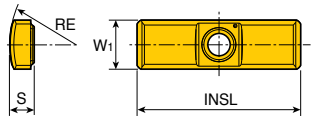
Guide pad

Designation		Dimension (mm)				Screw
		W1	S	INSL	RE	
Guide pad	**PAD - GP06-20-120-DC-SB**	6	3.0	20	12.0	CSTB2.2S
	GP06-20-120-DC-SC	6	3.0	20	12.0	CSTB2.2S
	GP07-20-120-DC-SB	7	3.5	20	12.0	CSTB3S
	GP07-20-120-DC-SC	7	3.5	20	12.0	CSTB3S
	GP08-25-155-DC-SB	8	4.5	25	15.5	CSTB3S
	GP08-25-155-DC-SC	8	4.5	25	15.5	CSTB3S
	GP10-30-200-DC-SB	10	4.5	30	20.0	CSTB3.5
	GP10-30-200-DC-SC	10	4.5	30	20.0	CSTB3.5
	GP12-35-250-DC-SB	12	5.5	35	25.0	CSTB3.5
	GP12-35-250-DC-SC	12	5.5	35	25.0	CSTB3.5



Pad for TBTA-TR & TRGD

Solid carbide guide pads



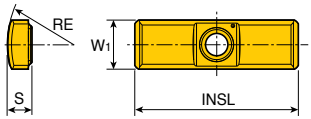
Designation		Dimension (mm)				Screw
		W1	S	INSL	RE	
Guide pad	**PAD - GP05-18-060-DC-SB**	5	2.5	18	6.0	SR34-508
	GP05-18-060-DC-SC	5	2.5	18	6.0	SR34-508
	GP05-18-075-DC-SB	5	2.5	18	7.5	SR34-508
	GP05-18-075-DC-SC	5	2.5	18	7.5	SR34-508
	GP06-20-085-DC-SB	6	3.0	20	8.5	CSTB2.2S* / SR34-508
	GP06-20-085-DC-SC	6	3.0	20	8.5	CSTB2.2S* / SR34-508
	GP06-20-100-DC-SB	6	3.0	20	10.0	CSTB2.2S* / SR34-508
	GP06-20-100-DC-SC	6	3.0	20	10.0	CSTB2.2S* / SR34-508
	GP06-20-120-DC-SB	6	3.0	20	12.0	CSTB2.2S* / SR34-508
	GP06-20-120-DC-SC	6	3.0	20	12.0	CSTB2.2S* / SR34-508



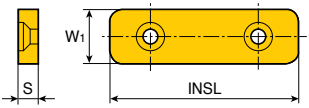


- Guide pad with "SB" is the first choice in general purpose machining. "SC" is a excellent toughness grade used with water-soluble coolant.

Pad for TBTA-R



Guide pad



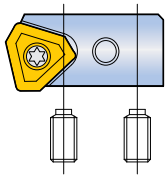
Resin guide pad

Designation		Dimension (mm)				Screw
		W1	S	INSL	RE	
Guide pad	**PAD - GC08-120**	8	4.4	25	17.5	CSTB3S
	GC08-140	8	3.5	25	17.5	CSTB3S
	GP08-25-155-DC-SB	8	4.5	25	15.5	CSTB3S
	GP08-25-155-DC-SC	8	4.5	25	15.5	CSTB3S
	GP10-35-200-DC-SB	10	6.0	35	20.0	CSTB4S
	GP10-35-200-DC-SC	10	6.0	35	20.0	CSTB4S
	GP14-40-250-DC-SB	14	7.5	40	25.0	CSTA5S
	GP14-40-250-DC-SC	14	7.5	40	25.0	CSTA5S
	GP18-40-300-DC-SB	18	9.0	40	30.0	LS1206S
	GP18-40-300-DC-SC	18	9.0	40	30.0	LS1206S
Resin guide pad	**PAD - R10**	10	4.0	40	-	LS0902.5-6
	R12	12	5.0	45	-	LS0903-8
	R15	15	5.8	50	-	LS0904-10
	R20	20	7.5	70	-	LS0905-12
	R30	30	12.5	80	-	LS0906-15
	R35	35	15.5	100	-	LS0906-15



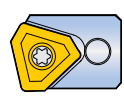
Cartridge for TBTA 3.../5.../7.../9





Outer





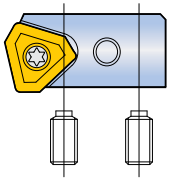
Inner & center

Designation			Adjust screw	Wrench	Lock screw	Wrench	Insert
Outer	**PERC**	**05R**	AS0003-5	H1.5	LS1803RH	H2	NPMX0803..
		402-04	AS0004-8	H2	LS1803.5RH	H2.5	TPMX1403..
		402-32	AS0005-10	H2.5	LS1805RH	H3	TPMX1704..
		402-43	AS0005-15	H2.5	L1806RH	H4	TPMX2405..
		402-63	AS0006-15	H3	L1806RH	H4	TPMX2807..
Inner & center	**CENC**	**05R**	-	-	CSTB3	T9	NPMX0803..
		402-04	-	-	CSTB3.5	T15	TPMX1403..
		402-32	-	-	CSTA5	T15	TPMX1704..
		402-43	-	-	LS1206	H3	TPMX2405..
		402-63	-	-	LS1206	H3	TPMX2807..



Plus Cartridge for TBTA 3.../5.../7.../9



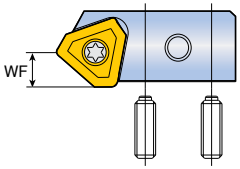


• Plus cartridge for diameter enlargement

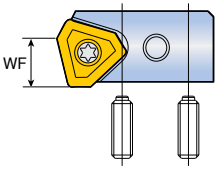
Designation					
DC	DC+1mm	DC+2mm	DC+3mm	DC+4mm	DC+5mm
PERC 05R	**PERC 05R+1**	**PERC 05R+2**	**-**	**-**	**-**
PERC 402-04	**PERC 402-04+1**	**PERC 402-04+2**	**PERC 402-04+3**	**-**	**-**
PERC 402-32	**PERC 402-32+1**	**PERC 402-32+2**	**PERC 402-32+3**	**PERC 402-32+4**	**-**
PERC 402-43	**PERC 402-43+1**	**PERC 402-43+2**	**PERC 402-43+3**	**PERC 402-43+4**	**PERC 402-43+5**
PERC 402-63	**PERC 402-63+1**	**PERC 402-63+2**	**PERC 402-63+3**	**PERC 402-63+4**	**PERC 402-63+5**



Cartridge for TBTA-R



Accurate tolerance applications



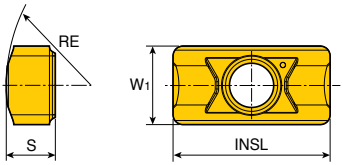
Open tolerance applications

Designation		WF (mm)	Adjust screw	Wrench	Lock screw	Wrench	Insert
Accurate tolerance applications	**PERC P04R**	5	AS0004-8	H2	LS1803.5RH	H2.5	TPMX1403..LG
	P32R	6	AS0005-10	H2.5	LS1805RH	H3	TPMX1704..LG
	P43R	8	AS0005-15	H2.5	LS1806RH	H4	TPMX2405..LG
Open tolerance applications	**PERC 402-04**	8	AS0004-8	H2	LS1803.5RH	H2.5	TPMX1403..RG
	402-32	9	AS0005-10	H2.5	LS1805RH	H3	TPMX1704..RG
	402-43	13	AS0005-15	H2.5	LS1806RH	H4	TPMX2405..RG


D121

• PERC-P and PERC 402-□□ cartridges are interchangable in the same pocket

Guide pad for TNDH-TP



Designation	Dimension (mm)				Screw	Grade
	W_1	S	INSL	RE		TT9030
PAD-G04-08	4	2.5	8	9	TS 20043I/HG-P	●


D62

• Guide pad is sold separately from drill body.

●: Standard items

Recommended Cutting Conditions

TOPDRILL

Machining data for TOP-DRILL 2,3,4xD

ISO	Material		Condition	Tensile strength (N/mm^2)	Hardness HB	Material No.	Cutting speed Vc (m/min)
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1	220-350
		>=0.25%C	Annealed	650	190	2	180-280
		<0.55%C	Quenched and tempered	850	250	3	140-240
		>=0.55%C	Annealed	750	220	4	140-240
			Quenched and tempered	1000	300	5	140-240
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	600	200	6	140-240
			Quenched and tempered	930	275	7	100-180
				1000	300	8	100-180
				1200	350	9	100-180
	High alloy steel, cast steel and tool steel		Annealed	680	200	10	140-200
			Quenched and tempered	1100	325	11	100-160
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12	150-250
			Martensitic	820	240	13	150-250
			Austenitic	600	180	14	150-250
K	Gray cast iron (GG)		Ferritic		160	15	160-260
			Pearlitic		250	16	160-260
	Cast iron nodular (GGG)		Ferritic		180	17	160-260
			Pearlitic		260	18	160-260
	Malleable cast iron		Ferritic		130	19	120-220
			Pearlitic		230	20	120-220
N	Aluminum - Wrought alloy		Not cureable		60	21	200-350
			Cured		100	22	200-350
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23	200-350
			Cured		90	24	200-350
		>12% Si	High temp.		130	25	200-350
	Copper alloys	>1% Pb	Free cutting		110	26	150-250
			Brass		90	27	150-250
			Electrolitic copper		100	28	150-250
	Non-metallic		Duroplastics, fiber plastics			29	150-250
			Hard rubber			30	150-250
S	High temp. alloys	Fe based	Annealed		200	31	30-60
			Cured		280	32	30-60
		Ni or Co based	Annealed		250	33	30-60
			Cured		350	34	30-60
			Cast		320	35	30-60
	Titanium,Ti alloys			Rm 400		36	50-80
			Alpha+beta alloys cured	Rm 1050		37	50-80
H	Hardened steel		Hardened		55HRC	38	30-60
			Hardened		60HRC	39	30-60
	Chilled cast iron		Cast		400	40	30-60
	Cast iron nodular		Hardened		55HRC	41	30-60

• For more information of material groups, see the materials & grades "material conversion table"

Steel | Stainless steel | Cast iron | Nonferrous | High temp. alloys | Hardened steel

ADVANCE MACHINING
TaeguTec Industry 4.0

Recommended Cutting Conditions

TOPDRILL

Machining data for TOP-DRILL 2,3,4xD

Feed (mm/rev) vs. drill diameter Drill length 2,3,4xD								
SOMT 04 Ø12 - Ø13.5	SOMT 05 Ø14 - Ø16	SOMT 06 Ø17 - Ø19	SOMT 07 Ø20 - Ø22	SOMT 08 Ø23 - Ø26	SOMT 09 Ø27 - Ø31	SOMT 11 Ø32 - Ø36	SOMT 13 Ø37 - Ø43	SOMT 15 Ø44 - Ø50
0.04-0.06	0.04-0.06	0.04-0.06	0.04-0.08	0.04-0.08	0.06-0.10	0.06-0.10	0.08-0.12	0.08-0.12
0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.12	0.06-0.12	0.08-0.14	0.08-0.14	0.08-0.16	0.10-0.16
0.08-0.12	0.08-0.12	0.08-0.12	0.08-0.16	0.08-0.16	0.10-0.16	0.10-0.16	0.10-0.18	0.10-0.18
0.08-0.12	0.08-0.12	0.08-0.12	0.08-0.16	0.08-0.16	0.10-0.16	0.10-0.16	0.10-0.18	0.10-0.18
0.08-0.12	0.08-0.12	0.08-0.12	0.08-0.16	0.08-0.16	0.10-0.16	0.10-0.16	0.10-0.18	0.10-0.18
0.06-0.16	0.06-0.16	0.06-0.16	0.08-0.20	0.08-0.20	0.08-0.20	0.10-0.22	0.10-0.22	0.10-0.24
0.06-0.16	0.06-0.16	0.06-0.16	0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.22	0.10-0.22	0.10-0.22
0.06-0.16	0.06-0.16	0.06-0.16	0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.22	0.10-0.22	0.10-0.22
0.06-0.16	0.06-0.16	0.06-0.16	0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.22	0.10-0.22	0.10-0.22
0.06-0.12	0.06-0.12	0.06-0.12	0.08-0.16	0.08-0.16	0.08-0.18	0.08-0.20	0.10-0.20	0.10-0.20
0.06-0.12	0.06-0.12	0.06-0.12	0.08-0.16	0.08-0.16	0.08-0.18	0.08-0.20	0.10-0.20	0.10-0.20
0.06-0.12	0.06-0.12	0.06-0.12	0.06-0.16	0.06-0.16	0.08-0.18	0.08-0.20	0.10-0.20	0.10-0.20
0.06-0.12	0.06-0.12	0.06-0.12	0.06-0.16	0.06-0.16	0.08-0.18	0.08-0.20	0.10-0.20	0.10-0.20
0.06-0.12	0.06-0.12	0.06-0.12	0.06-0.16	0.06-0.16	0.08-0.18	0.08-0.20	0.10-0.20	0.10-0.20
0.08-0.18	0.08-0.18	0.08-0.18	0.10-0.20	0.10-0.20	0.10-0.20	0.10-0.20	0.10-0.22	0.10-0.22
0.08-0.18	0.08-0.18	0.08-0.18	0.10-0.20	0.10-0.20	0.10-0.20	0.10-0.20	0.10-0.22	0.10-0.22
0.08-0.18	0.08-0.18	0.08-0.18	0.10-0.20	0.10-0.20	0.10-0.20	0.10-0.20	0.10-0.22	0.10-0.22
0.08-0.18	0.08-0.18	0.08-0.18	0.10-0.20	0.10-0.20	0.10-0.20	0.10-0.20	0.10-0.22	0.10-0.22
0.08-0.14	0.08-0.14	0.08-0.14	0.10-0.16	0.10-0.16	0.10-0.16	0.10-0.18	0.10-0.18	0.10-0.18
0.08-0.14	0.08-0.14	0.08-0.14	0.10-0.16	0.10-0.16	0.10-0.16	0.10-0.18	0.10-0.18	0.10-0.18
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.08-0.18	0.08-0.18	0.10-0.18	0.10-0.18
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.08-0.18	0.08-0.18	0.10-0.18	0.10-0.18
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.08-0.18	0.08-0.18	0.10-0.18	0.10-0.18
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.08-0.18	0.08-0.18	0.10-0.18	0.10-0.18
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.08-0.18	0.08-0.18	0.10-0.18	0.10-0.18
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.08-0.16	0.08-0.17	0.10-0.18	0.10-0.18
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.08-0.16	0.08-0.17	0.10-0.18	0.10-0.18
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.08-0.16	0.08-0.17	0.10-0.18	0.10-0.18
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.10-0.17	0.10-0.17	0.10-0.18	0.10-0.18
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.10-0.17	0.10-0.17	0.10-0.18	0.10-0.18
0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.06-0.10	0.06-0.10	0.06-0.12	0.06-0.12
0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.06-0.10	0.06-0.10	0.06-0.12	0.06-0.12
0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.06-0.10	0.06-0.10	0.06-0.12	0.06-0.12
0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.06-0.10	0.06-0.10	0.06-0.12	0.06-0.12
0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.06-0.10	0.06-0.10	0.06-0.12	0.06-0.12
0.06-0.09	0.06-0.09	0.06-0.09	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10
0.06-0.09	0.06-0.09	0.06-0.09	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10
0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10
0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10
0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10
0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10

Recommended Cutting Conditions

TOPDRILL

Machining data for TOP-DRILL 5xD

ISO	Material		Condition	Tensile strength (N/mm^2)	Hardness HB	Material No.	Cutting speed Vc (m/min)
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1	220-350
		>=0.25%C	Annealed	650	190	2	180-280
		<0.55%C	Quenched and tempered	850	250	3	140-240
		>=0.55%C	Annealed	750	220	4	140-240
			Quenched and tempered	1000	300	5	140-240
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	600	200	6	140-240
			Quenched and tempered	930	275	7	100-180
				1000	300	8	100-180
				1200	350	9	100-180
	High alloy steel, cast steel and tool steel		Annealed	680	200	10	140-200
			Quenched and tempered	1100	325	11	100-160
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12	150-250
			Martensitic	820	240	13	150-250
			Austenitic	600	180	14	150-250
K	Gray cast iron (GG)		Ferritic		160	15	160-260
			Pearlitic		250	16	160-260
	Cast iron nodular (GGG)		Ferritic		180	17	160-260
			Pearlitic		260	18	160-260
	Malleable cast iron		Ferritic		130	19	120-220
			Pearlitic		230	20	120-220
N	Aluminum - Wrought alloy		Not cureable		60	21	200-350
			Cured		100	22	200-350
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23	200-350
			Cured		90	24	200-350
		>12% Si	High temp.		130	25	200-350
	Copper alloys	>1% Pb	Free cutting		110	26	150-250
			Brass		90	27	150-250
			Electrolitic copper		100	28	150-250
	Non-metallic		Duroplastics, fiber plastics			29	150-250
			Hard rubber			30	150-250
S	High temp. alloys	Fe based	Annealed		200	31	30-60
			Cured		280	32	30-60
		Ni or Co based	Annealed		250	33	30-60
			Cured		350	34	30-60
			Cast		320	35	30-60
	Titanium, Ti alloys			Rm 400		36	50-80
			Alpha+beta alloys cured	Rm 1050		37	50-80
H	Hardened steel		Hardened		55HRC	38	30-60
			Hardened		60HRC	39	30-60
	Chilled cast iron		Cast		400	40	30-60
	Cast iron nodular		Hardened		55HRC	41	30-60

• For more information of material groups, see the materials & grades "material conversion table"

Steel | Stainless steel | Cast iron | Nonferrous | High temp. alloys | Hardened steel

ADVANCE MACHINING
TaeguTec Industry 4.0

Recommended Cutting Conditions

TOPDRILL

Machining data for TOP-DRILL 5xD

Feed (mm/rev) vs. drill diameter Drill length 5xD								
SOMT 04 Ø12 - Ø13.5	SOMT 05 Ø14 - Ø16	SOMT 06 Ø17 - Ø19	SOMT 07 Ø20 - Ø22	SOMT 08 Ø23 - Ø26	SOMT 09 Ø27 - Ø31	SOMT 11 Ø32 - Ø36	SOMT 13 Ø37 - Ø43	SOMT 15 Ø44 - Ø50
0.04-0.05	0.04-0.05	0.04-0.05	0.04-0.05	0.04-0.06	0.06-0.08	0.06-0.08	0.08-0.10	0.08-0.10
0.06-0.08	0.06-0.08	0.06-0.08	0.06-0.10	0.06-0.10	0.08-0.12	0.08-0.12	0.08-0.14	0.10-0.14
0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.12	0.06-0.12	0.10-0.15	0.10-0.15	0.10-0.17	0.10-0.17
0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.12	0.06-0.12	0.10-0.15	0.10-0.15	0.10-0.17	0.10-0.17
0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.12	0.06-0.12	0.10-0.15	0.10-0.15	0.10-0.17	0.10-0.17
0.06-0.12	0.06-0.12	0.06-0.12	0.08-0.16	0.08-0.16	0.08-0.18	0.10-0.20	0.10-0.20	0.10-0.22
0.06-0.12	0.06-0.12	0.06-0.12	0.08-0.16	0.08-0.16	0.08-0.18	0.10-0.20	0.10-0.20	0.10-0.22
0.06-0.12	0.06-0.12	0.06-0.12	0.08-0.16	0.08-0.16	0.08-0.18	0.10-0.20	0.10-0.20	0.10-0.22
0.06-0.12	0.06-0.12	0.06-0.12	0.08-0.16	0.08-0.16	0.08-0.18	0.10-0.20	0.10-0.20	0.10-0.22
0.06-0.10	0.06-0.10	0.06-0.10	0.08-0.12	0.08-0.12	0.08-0.16	0.08-0.18	0.10-0.18	0.10-0.20
0.06-0.10	0.06-0.10	0.06-0.10	0.08-0.12	0.08-0.12	0.08-0.16	0.08-0.18	0.10-0.18	0.10-0.20
0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.12	0.06-0.12	0.08-0.16	0.08-0.18	0.10-0.18	0.10-0.20
0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.12	0.06-0.12	0.08-0.16	0.08-0.18	0.10-0.18	0.10-0.20
0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.12	0.06-0.12	0.08-0.16	0.08-0.18	0.10-0.18	0.10-0.20
0.08-0.14	0.08-0.14	0.08-0.14	0.08-0.16	0.08-0.16	0.10-0.18	0.10-0.18	0.10-0.20	0.10-0.20
0.08-0.14	0.08-0.14	0.08-0.14	0.08-0.16	0.08-0.16	0.10-0.18	0.10-0.18	0.10-0.20	0.10-0.20
0.08-0.14	0.08-0.14	0.08-0.14	0.08-0.16	0.08-0.16	0.10-0.18	0.10-0.18	0.10-0.20	0.10-0.20
0.08-0.14	0.08-0.14	0.08-0.14	0.08-0.16	0.08-0.16	0.10-0.18	0.10-0.18	0.10-0.20	0.10-0.20
0.08-0.12	0.08-0.12	0.08-0.14	0.08-0.16	0.08-0.16	0.10-0.16	0.10-0.16	0.10-0.16	0.10-0.16
0.08-0.12	0.08-0.12	0.08-0.14	0.08-0.16	0.08-0.16	0.10-0.16	0.10-0.16	0.10-0.16	0.10-0.16
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.08-0.16	0.08-0.16	0.10-0.17	0.10-0.17
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.08-0.16	0.08-0.16	0.10-0.17	0.10-0.17
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.08-0.16	0.08-0.16	0.10-0.17	0.10-0.17
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.08-0.16	0.08-0.16	0.10-0.17	0.10-0.17
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.08-0.16	0.08-0.16	0.10-0.17	0.10-0.17
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.08-0.15	0.08-0.16	0.10-0.17	0.10-0.17
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.08-0.15	0.08-0.16	0.10-0.17	0.10-0.17
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.08-0.15	0.08-0.16	0.10-0.17	0.10-0.17
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.10-0.16	0.10-0.16	0.10-0.17	0.10-0.17
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.10-0.16	0.10-0.16	0.10-0.17	0.10-0.17
0.05-0.07	0.05-0.07	0.05-0.08	0.05-0.08	0.05-0.08	0.06-0.09	0.06-0.09	0.06-0.10	0.06-0.10
0.05-0.07	0.05-0.07	0.05-0.08	0.05-0.08	0.05-0.08	0.06-0.09	0.06-0.09	0.06-0.10	0.06-0.10
0.05-0.07	0.05-0.07	0.05-0.08	0.05-0.08	0.05-0.08	0.06-0.09	0.06-0.09	0.06-0.10	0.06-0.10
0.05-0.07	0.05-0.07	0.05-0.08	0.05-0.08	0.05-0.08	0.06-0.09	0.06-0.09	0.06-0.10	0.06-0.10
0.05-0.07	0.05-0.07	0.05-0.08	0.05-0.08	0.05-0.08	0.06-0.09	0.06-0.09	0.06-0.10	0.06-0.10
0.05-0.08	0.05-0.08	0.05-0.08	0.06-0.09	0.06-0.09	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10
0.05-0.08	0.05-0.08	0.05-0.08	0.06-0.09	0.06-0.09	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10
0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10
0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10
0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10
0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10

Recommended Cutting Conditions

TOP DRILL

Machining data for TOP-DRILL cartridge

ISO	Material		Condition	Tensile strength (N/mm^2)	Hardness HB	Material No.	Cutting speed Vc (m/min)
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1	250-350
		>=0.25%C	Annealed	650	190	2	160-250
		<0.55%C	Quenched and tempered	850	250	3	140-240
		>=0.55%C	Annealed	750	220	4	140-240
			Quenched and tempered	1000	300	5	140-240
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	600	200	6	140-240
			Quenched and tempered	930	275	7	100-180
				1000	300	8	100-180
				1200	350	9	100-180
	High alloy steel, cast steel and tool steel		Annealed	680	200	10	140-200
			Quenched and tempered	1100	325	11	100-160
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12	150-250
			Martensitic	820	240	13	150-250
			Austenitic	600	180	14	150-250
K	Gray cast iron (GG)		Ferritic		160	15	160-260
			Pearlitic		250	16	160-260
	Cast iron nodular (GGG)		Ferritic		180	17	160-260
			Pearlitic		260	18	160-260
	Malleable cast iron		Ferritic		130	19	120-220
			Pearlitic		230	20	120-220
N	Aluminum - Wrought alloy		Not cureable		60	21	200-350
			Cured		100	22	200-350
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23	200-350
			Cured		90	24	200-350
		>12% Si	High temp.		130	25	200-350
	Copper alloys	>1% Pb	Free cutting		110	26	150-250
			Brass		90	27	150-250
			Electrolitic copper		100	28	150-250
	Non-metallic		Duroplastics, fiber plastics			29	150-250
			Hard rubber			30	150-250
S	High temp. alloys	Fe based	Annealed		200	31	30-60
			Cured		280	32	30-60
		Ni or Co based	Annealed		250	33	30-60
			Cured		350	34	30-60
			Cast		320	35	30-60
	Titanium, Ti alloys			Rm 400		36	50-80
			Alpha+beta alloys cured	Rm 1050		37	50-80
H	Hardened steel		Hardened		55HRC	38	30-60
			Hardened		60HRC	39	30-60
	Chilled cast iron		Cast		400	40	30-60
	Cast iron nodular		Hardened		55HRC	41	30-60

• For more information of material groups, see the materials & grades "material conversion table"

Steel | Stainless steel | Cast iron | Nonferrous | High temp. alloys | Hardened steel

Recommended Cutting Conditions

TOPDRILL

Machining data for TOP-DRILL cartridge

Feed (mm/rev) vs. drill diameter Drill length 2,3,4xD					
SOMT 09 Ø51 - Ø55	SOMT 11 Ø56 - Ø60	SOMT 11 Ø61 - Ø65	SOMT 11 Ø66 - Ø70	SOMT 13 Ø71 - Ø75	SOMT 13 Ø76 - Ø80
0.06-0.12	0.06-0.12	0.06-0.12	0.06-0.12	0.06-0.12	0.06-0.12
0.06-0.16	0.06-0.16	0.06-0.16	0.06-0.16	0.06-0.16	0.06-0.16
0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18
0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18
0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18
0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.20
0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.20
0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.20
0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.20
0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.20
0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18
0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18
0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18
0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18
0.10-0.22	0.10-0.22	0.10-0.22	0.10-0.22	0.10-0.22	0.10-0.22
0.10-0.22	0.10-0.22	0.10-0.22	0.10-0.22	0.10-0.22	0.10-0.22
0.10-0.22	0.10-0.22	0.10-0.22	0.10-0.22	0.10-0.22	0.10-0.22
0.10-0.22	0.10-0.22	0.10-0.22	0.10-0.22	0.10-0.22	0.10-0.22
0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18
0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18
0.06-0.18	0.06-0.18	0.06-0.18	0.06-0.18	0.06-0.18	0.06-0.18
0.06-0.18	0.06-0.18	0.06-0.18	0.06-0.18	0.06-0.18	0.06-0.18
0.06-0.18	0.06-0.18	0.06-0.18	0.06-0.18	0.06-0.18	0.06-0.18
0.06-0.18	0.06-0.18	0.06-0.18	0.06-0.18	0.06-0.18	0.06-0.18
0.06-0.18	0.06-0.18	0.06-0.18	0.06-0.18	0.06-0.18	0.06-0.18
0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18
0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18
0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18
0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18
0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10
0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10
0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10
0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10
0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10
0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10
0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10
0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10
0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10
0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10
0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10

Recommended Cutting Conditions

TDRILL

Machining data for T-DRILL 2,3,4xD

ISO	Material		Condition	Tensile strength (N/mm^2)	Hardness HB	Material No.	Cutting speed Vc (m/min)
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1	250-350
		>=0.25%C	Annealed	650	190	2	180-250
		<0.55%C	Quenched and tempered	850	250	3	160-220
		>=0.55%C	Annealed	750	220	4	160-220
			Quenched and tempered	1000	300	5	160-220
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	600	200	6	150-220
			Quenched and tempered	930	275	7	120-160
				1000	300	8	120-160
				1200	350	9	120-160
	High alloy steel, cast steel and tool steel		Annealed	680	200	10	140-180
			Quenched and tempered	1100	325	11	130-180
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12	170-240
			Martensitic	820	240	13	170-240
			Austenitic	600	180	14	170-240
K	Gray cast iron (GG)		Ferritic		160	15	180-250
			Pearlitic		250	16	180-250
	Cast iron nodular (GGG)		Ferritic		180	17	180-250
			Pearlitic		260	18	180-250
	Malleable cast iron		Ferritic		130	19	130-200
			Pearlitic		230	20	130-200
N	Aluminum - Wrought alloy		Not cureable		60	21	330-380
			Cured		100	22	330-380
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23	330-380
			Cured		90	24	330-380
		>12% Si	High temp.		130	25	330-380
	Copper alloys	>1% Pb	Free cutting		110	26	150-230
			Brass		90	27	150-230
			Electrolitic copper		100	28	150-230
	Non-metallic		Duroplastics, fiber plastics			29	150-230
			Hard rubber			30	150-230
S	High temp. alloys	Fe based	Annealed		200	31	30-60
			Cured		280	32	30-60
		Ni or Co based	Annealed		250	33	30-60
			Cured		350	34	30-60
			Cast		320	35	30-60
	Titanium, Ti alloys			Rm 400		36	30-60
			Alpha+beta alloys cured	Rm 1050		37	30-60
H	Hardened steel		Hardened		55HRC	38	30-60
			Hardened		60HRC	39	30-60
	Chilled cast iron		Cast		400	40	30-60
	Cast iron nodular		Hardened		55HRC	41	30-60

• For more information of material groups, see the materials & grades "material conversion table"

Steel | Stainless steel | Cast iron | Nonferrous | High temp. alloys | Hardened steel

ADVANCE MACHINING
TaeguTec Industry 4.0

Recommended Cutting Conditions

T-DRILL

Machining data for T-DRILL 2,3,4xD

Feed (mm/rev) vs. drill diameter Drill length 2,3,4xD					
SPMG 05 Ø12.5 - Ø15	SPMG 06 Ø16 - Ø21	SPMG 07 Ø22 - Ø27	SPMG 09 Ø28 - Ø33	SPMG 11 Ø34 - Ø41	SPMG 14 Ø42 - Ø50
0.04-0.06	0.04-0.06	0.04-0.08	0.04-0.08	0.06-0.10	0.06-0.12
0.05-0.08	0.06-0.10	0.06-0.12	0.07-0.13	0.08-0.15	0.08-0.16
0.06-0.12	0.08-0.15	0.10-0.18	0.12-0.22	0.12-0.24	0.13-0.25
0.06-0.12	0.08-0.15	0.10-0.18	0.12-0.22	0.12-0.24	0.13-0.25
0.06-0.12	0.08-0.15	0.10-0.18	0.12-0.22	0.12-0.24	0.13-0.25
0.06-0.12	0.08-0.14	0.10-0.18	0.12-0.20	0.12-0.20	0.13-0.20
0.06-0.15	0.06-0.15	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18
0.06-0.15	0.06-0.15	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18
0.06-0.15	0.06-0.15	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18
0.06-0.10	0.06-0.10	0.08-0.12	0.08-0.14	0.08-0.14	0.08-0.14
0.06-0.10	0.08-0.12	0.10-0.15	0.12-0.15	0.12-0.18	0.13-0.18
0.05-0.10	0.06-0.12	0.08-0.15	0.09-0.16	0.10-0.17	0.11-0.18
0.05-0.10	0.06-0.12	0.08-0.15	0.09-0.16	0.10-0.17	0.11-0.18
0.05-0.10	0.06-0.12	0.08-0.15	0.09-0.16	0.10-0.17	0.11-0.18
0.06-0.12	0.08-0.16	0.12-0.20	0.15-0.25	0.16-0.28	0.18-0.30
0.06-0.12	0.08-0.16	0.12-0.20	0.15-0.25	0.16-0.28	0.18-0.30
0.06-0.12	0.08-0.16	0.12-0.20	0.15-0.25	0.16-0.28	0.18-0.30
0.06-0.12	0.08-0.16	0.12-0.20	0.15-0.25	0.16-0.28	0.18-0.30
0.06-0.10	0.08-0.15	0.10-0.18	0.12-0.20	0.15-0.23	0.16-0.25
0.06-0.10	0.08-0.15	0.10-0.18	0.12-0.20	0.15-0.23	0.16-0.25
0.06-0.14	0.08-0.15	0.10-0.20	0.12-0.22	0.14-0.23	0.15-0.26
0.06-0.14	0.08-0.15	0.10-0.20	0.12-0.22	0.14-0.23	0.15-0.26
0.06-0.14	0.08-0.15	0.10-0.20	0.12-0.22	0.14-0.23	0.15-0.26
0.06-0.14	0.08-0.15	0.10-0.20	0.12-0.22	0.14-0.23	0.15-0.26
0.06-0.14	0.08-0.15	0.10-0.20	0.12-0.22	0.14-0.23	0.15-0.26
0.06-0.13	0.06-0.13	0.08-0.15	0.08-0.15	0.08-0.15	0.08-0.15
0.06-0.13	0.06-0.13	0.08-0.15	0.08-0.15	0.08-0.15	0.08-0.15
0.06-0.13	0.06-0.13	0.08-0.15	0.08-0.15	0.08-0.15	0.08-0.15
0.06-0.13	0.06-0.13	0.08-0.15	0.08-0.15	0.08-0.15	0.08-0.15
0.06-0.13	0.06-0.13	0.08-0.15	0.08-0.15	0.08-0.15	0.08-0.15
0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.09
0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.09
0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.09
0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.09
0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.09
0.05-0.10	0.06-0.14	0.08-0.18	0.10-0.22	0.14-0.23	0.15-0.24
0.05-0.10	0.06-0.14	0.08-0.18	0.10-0.22	0.14-0.23	0.15-0.24
0.05-0.09	0.05-0.09	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10
0.05-0.09	0.05-0.09	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10
0.05-0.09	0.05-0.09	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10
0.05-0.09	0.05-0.09	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10

Recommended Cutting Conditions

TDRILL

Machining data for T-DRILL 5xD

ISO	Material		Condition	Tensile strength (N/mm^2)	Hardness HB	Material No.	Cutting speed Vc (m/min)
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1	250-350
		>=0.25%C	Annealed	650	190	2	180-250
		<0.55%C	Quenched and tempered	850	250	3	160-220
		>=0.55%C	Annealed	750	220	4	160-220
			Quenched and tempered	1000	300	5	160-220
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	600	200	6	150-220
			Quenched and tempered	930	275	7	120-160
				1000	300	8	120-160
				1200	350	9	120-160
	High alloy steel, cast steel and tool steel		Annealed	680	200	10	140-180
			Quenched and tempered	1100	325	11	130-180
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12	170-240
			Martensitic	820	240	13	170-240
			Austenitic	600	180	14	170-240
K	Gray cast iron (GG)		Ferritic		160	15	180-250
			Pearlitic		250	16	180-250
	Cast iron nodular (GGG)		Ferritic		180	17	180-250
			Pearlitic		260	18	180-250
	Malleable cast iron		Ferritic		130	19	130-200
			Pearlitic		230	20	130-200
N	Aluminum - Wrought alloy		Not cureable		60	21	330-380
			Cured		100	22	330-380
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23	330-380
			Cured		90	24	330-380
		>12% Si	High temp.		130	25	330-380
	Copper alloys	>1% Pb	Free cutting		110	26	150-230
			Brass		90	27	150-230
			Electrolitic copper		100	28	150-230
	Non-metallic		Duroplastics, fiber plastics			29	150-230
			Hard rubber			30	150-230
S	High temp. alloys	Fe based	Annealed		200	31	30-60
			Cured		280	32	30-60
		Ni or Co based	Annealed		250	33	30-60
			Cured		350	34	30-60
			Cast		320	35	30-60
	Titanium, Ti alloys			Rm 400		36	30-60
			Alpha+beta alloys cured	Rm 1050		37	30-60
H	Hardened steel		Hardened		55HRC	38	30-60
			Hardened		60HRC	39	30-60
	Chilled cast iron		Cast		400	40	30-60
	Cast iron nodular		Hardened		55HRC	41	30-60

• For more information of material groups, see the materials & grades "material conversion table"

Steel | Stainless steel | Cast iron | Nonferrous | High temp. alloys | Hardened steel

Recommended Cutting Conditions

Machining data for T-DRILL 5xD

Feed (mm/rev) vs. drill diameter Drill length 5xD					
SPMG 05 Ø12.5 - Ø15	SPMG 06 Ø16 - Ø21	SPMG 07 Ø22 - Ø27	SPMG 09 Ø28 - Ø33	SPMG 11 Ø34 - Ø41	SPMG 14 Ø42 - Ø50
0.04-0.05	0.04-0.05	0.04-0.06	0.04-0.07	0.06-0.08	0.06-0.10
0.06-0.08	0.06-0.08	0.06-0.10	0.07-0.12	0.08-0.13	0.08-0.14
0.06-0.10	0.08-0.13	0.10-0.16	0.12-0.20	0.12-0.22	0.13-0.23
0.06-0.10	0.08-0.13	0.10-0.16	0.12-0.20	0.12-0.22	0.13-0.23
0.06-0.10	0.08-0.13	0.10-0.16	0.12-0.20	0.12-0.22	0.13-0.23
0.06-0.10	0.08-0.12	0.10-0.16	0.12-0.18	0.12-0.18	0.13-0.18
0.06-0.12	0.06-0.13	0.08-0.16	0.08-0.16	0.08-0.17	0.08-0.17
0.06-0.12	0.06-0.13	0.08-0.16	0.08-0.16	0.08-0.17	0.08-0.17
0.06-0.12	0.06-0.13	0.08-0.16	0.08-0.16	0.08-0.17	0.08-0.17
0.06-0.08	0.06-0.08	0.08-0.10	0.08-0.12	0.08-0.12	0.08-0.12
0.06-0.09	0.08-0.10	0.10-0.13	0.12-0.13	0.12-0.15	0.12-0.16
0.05-0.09	0.06-0.10	0.08-0.13	0.09-0.15	0.10-0.15	0.10-0.17
0.05-0.09	0.06-0.10	0.08-0.13	0.09-0.15	0.10-0.15	0.10-0.17
0.05-0.09	0.06-0.10	0.08-0.13	0.09-0.15	0.10-0.15	0.10-0.17
0.06-0.10	0.08-0.15	0.12-0.18	0.15-0.22	0.16-0.25	0.18-0.28
0.06-0.10	0.08-0.15	0.12-0.18	0.15-0.22	0.16-0.25	0.18-0.28
0.06-0.10	0.08-0.15	0.12-0.18	0.15-0.22	0.16-0.25	0.18-0.28
0.06-0.10	0.08-0.15	0.12-0.18	0.15-0.22	0.16-0.25	0.18-0.28
0.06-0.08	0.08-0.12	0.10-0.16	0.12-0.18	0.15-0.22	0.16-0.23
0.06-0.08	0.08-0.12	0.10-0.16	0.12-0.18	0.15-0.22	0.16-0.23
0.06-0.12	0.08-0.15	0.10-0.13	0.12-0.18	0.14-0.20	0.14-0.24
0.06-0.12	0.08-0.15	0.10-0.13	0.12-0.18	0.14-0.20	0.14-0.24
0.06-0.12	0.08-0.15	0.10-0.13	0.12-0.18	0.14-0.20	0.14-0.24
0.06-0.12	0.08-0.15	0.10-0.13	0.12-0.18	0.14-0.20	0.14-0.24
0.06-0.12	0.08-0.15	0.10-0.13	0.12-0.18	0.14-0.20	0.14-0.24
0.06-0.12	0.06-0.12	0.08-0.13	0.08-0.13	0.08-0.14	0.08-0.14
0.06-0.12	0.06-0.12	0.08-0.13	0.08-0.13	0.08-0.14	0.08-0.14
0.06-0.12	0.06-0.12	0.08-0.13	0.08-0.13	0.08-0.14	0.08-0.14
0.06-0.12	0.06-0.12	0.08-0.13	0.08-0.13	0.08-0.14	0.08-0.14
0.06-0.12	0.06-0.12	0.08-0.13	0.08-0.13	0.08-0.14	0.08-0.14
0.05-0.07	0.05-0.07	0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.08
0.05-0.07	0.05-0.07	0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.08
0.05-0.07	0.05-0.07	0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.08
0.05-0.07	0.05-0.07	0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.08
0.05-0.07	0.05-0.07	0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.08
0.05-0.09	0.08-0.13	0.08-0.17	0.10-0.20	0.14-0.22	0.14-0.24
0.05-0.09	0.08-0.13	0.08-0.17	0.10-0.20	0.14-0.22	0.14-0.24
0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.09
0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.09
0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.09
0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.09

Recommended Cutting Conditions

DRILL SFEED

Machining data for DRILL-SFEED

ISO	Material		Condition	Tensile strength (N/mm^2)	Hardness HB	Material No.
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1
		>=0.25%C	Annealed	650	190	2
		<0.55%C	Quenched and tempered	850	250	3
		>=0.55%C	Annealed	750	220	4
			Quenched and tempered	1000	300	5
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	600	200	6
			Quenched and tempered	930	275	7
				1000	300	8
				1200	350	9
	High alloy steel, cast steel and tool steel		Annealed	680	200	10
			Quenched and tempered	1100	325	11
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12
			Martensitic	820	240	13
			Austenitic	600	180	14
K	Gray cast iron (GG)		Ferritic		160	15
			Pearlitic		250	16
	Cast iron nodular (GGG)		Ferritic		180	17
			Pearlitic		260	18
	Malleable cast iron		Ferritic		130	19
			Pearlitic		230	20
N	Aluminum - Wrought alloy		Not cureable		60	21
			Cured		100	22
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23
			Cured		90	24
		>12% Si	High temp.		130	25
	Copper alloys	>1% Pb	Free cutting		110	26
			Brass		90	27
			Electrolitic copper		100	28
	Non-metallic		Duroplastics, fiber plastics			29
			Hard rubber			30
S	High temp. alloys	Fe based	Annealed		200	31
			Cured		280	32
		Ni or Co based	Annealed		250	33
			Cured		350	34
			Cast		320	35
	Titanium, Ti alloys			Rm 400		36
			Alpha+beta alloys cured	Rm 1050		37
H	Hardened steel		Hardened		55HRC	38
			Hardened		60HRC	39
	Chilled cast iron		Cast		400	40
	Cast iron nodular		Hardened		55HRC	41

• For more information of material groups, see the materials & grades "material conversion table"

Steel | Stainless steel | Cast iron | Nonferrous | High temp. alloys | Hardened steel

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Recommended Cutting Conditions

DRILL SFEED

Machining data for DRILL-SFEED

Cutting speed Vc (m/min)	Feed (mm/rev) vs. drill diameter		
	Ø15 - Ø15.9	Ø16 - Ø19.9	Ø20 - Ø20.9
80-140	0.30-0.50	0.35-0.55	0.40-060
80-130	0.30-0.50	0.35-0.55	0.40-060
80-120	0.30-0.50	0.35-0.55	0.40-060
70-110	0.30-0.50	0.35-0.55	0.40-060
50-90	0.30-0.50	0.35-0.55	0.40-060
80-120	0.25-0.45	0.30-0.50	0.35-0.55
70-110	0.25-0.45	0.30-0.50	0.35-0.55
50-90	0.25-0.45	0.30-0.50	0.35-0.55
40-70	0.25-0.45	0.30-0.50	0.35-0.55
50-90	0.25-0.40	0.30-0.45	0.35-0.50
40-80	0.25-0.40	0.30-0.45	0.35-0.50
90-160	0.40-0.60	0.45-0.65	0.50-0.70
80-140	0.40-0.60	0.45-0.65	0.50-0.70
90-180	0.35-0.55	0.40-0.60	0.45-0.65
80-140	0.35-0.55	0.40-0.60	0.45-0.65
90-160	0.35-0.55	0.40-0.60	0.45-0.65
80-140	0.35-0.55	0.40-0.60	0.45-0.65

Recommended Cutting Conditions

DRILL RUSH

Machining data for DRILL-RUSH

ISO	Material		Condition	Tensile strength (N/mm^2)	Hardness HB	Material No.	Cutting speed Vc (m/min)
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1	80-140
		>=0.25%C	Annealed	650	190	2	80-130
		<0.55%C	Quenched and tempered	850	250	3	80-120
		>=0.55%C	Annealed	750	220	4	70-110
			Quenched and tempered	1000	300	5	50-90
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	600	200	6	70-120
			Quenched and tempered	930	275	7	70-110
				1000	300	8	50-90
				1200	350	9	40-70
	High alloy steel, cast steel and tool steel		Annealed	680	200	10	50-90
			Quenched and tempered	1100	325	11	40-80
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12	40-70
			Martensitic	820	240	13	40-70
			Austenitic	600	180	14	30-70
K	Gray cast iron (GG)		Ferritic		160	15	90-160
			Pearlitic		250	16	80-140
	Cast iron nodular (GGG)		Ferritic		180	17	90-180
			Pearlitic		260	18	80-140
	Malleable cast iron		Ferritic		130	19	90-160
			Pearlitic		230	20	80-140
N	Aluminum - Wrought alloy		Not cureable		60	21	90-220
			Cured		100	22	90-220
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23	90-220
			Cured		90	24	90-220
		>12% Si	High temp.		130	25	80-160
	Copper alloys	>1% Pb	Free cutting		110	26	90-220
			Brass		90	27	90-220
			Electrolitic copper		100	28	90-220
	Non-metallic		Duroplastics, fiber plastics			29	
			Hard rubber			30	
S	High temp. alloys	Fe based	Annealed		200	31	30-60
			Cured		280	32	20-50
		Ni or Co based	Annealed		250	33	20-50
			Cured		350	34	20-50
			Cast		320	35	20-50
	Titanium, Ti alloys			Rm 400		36	20-50
			Alpha+beta alloys cured	Rm 1050		37	20-50
H	Hardened steel		Hardened		55HRC	38	20-50
			Hardened		60HRC	39	20-50
	Chilled cast iron		Cast		400	40	
	Cast iron nodular		Hardened		55HRC	41	

• For more information of material groups, see the materials & grades "material conversion table"

Steel | Stainless steel | Cast iron | Nonferrous | High temp. alloys | Hardened steel

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Recommended Cutting Conditions

DRILL RUSH

Machining data for DRILL-RUSH

Feed (mm/rev) vs. drill diameter						
Ø6 - Ø7.9	Ø8 - Ø9.9	Ø10 - Ø11.9	Ø12 - Ø13.9	Ø14 - Ø15.9	Ø16 - Ø19.9	Ø20 - Ø25.9
0.09-0.13	0.12-0.22	0.15-0.28	0.18-0.30	0.20-0.35	0.25-0.45	0.25-0.45
0.09-0.13	0.12-0.22	0.15-0.28	0.18-0.30	0.20-0.35	0.25-0.45	0.25-0.45
0.09-0.13	0.12-0.22	0.15-0.28	0.18-0.30	0.20-0.35	0.25-0.45	0.25-0.45
0.09-0.13	0.12-0.22	0.15-0.28	0.18-0.30	0.20-0.35	0.25-0.45	0.25-0.45
0.09-0.13	0.12-0.22	0.15-0.28	0.18-0.30	0.20-0.35	0.25-0.45	0.25-0.45
0.09-0.15	0.12-0.25	0.14-0.28	0.16-0.32	0.18-0.35	0.23-0.40	0.25-0.45
0.09-0.15	0.12-0.25	0.14-0.28	0.16-0.32	0.18-0.35	0.23-0.40	0.25-0.45
0.09-0.15	0.12-0.25	0.14-0.28	0.16-0.32	0.18-0.35	0.23-0.40	0.25-0.45
0.09-0.15	0.12-0.25	0.14-0.28	0.16-0.32	0.18-0.35	0.23-0.40	0.25-0.45
0.09-0.12	0.12-0.20	0.12-0.22	0.15-0.25	0.18-0.28	0.20-0.30	0.22-0.33
0.09-0.12	0.12-0.20	0.12-0.22	0.15-0.25	0.18-0.28	0.20-0.30	0.22-0.33
0.08-0.10	0.10-0.15	0.12-0.18	0.14-0.20	0.16-0.24	0.16-0.26	0.18-0.30
0.08-0.10	0.10-0.15	0.12-0.18	0.14-0.20	0.16-0.24	0.16-0.26	0.18-0.30
0.08-0.10	0.10-0.15	0.12-0.18	0.14-0.20	0.16-0.24	0.16-0.26	0.18-0.30
0.12-0.18	0.15-0.30	0.20-0.35	0.25-0.40	0.30-0.45	0.35-0.55	0.35-0.60
0.12-0.18	0.15-0.30	0.20-0.35	0.25-0.40	0.30-0.45	0.35-0.55	0.35-0.60
0.12-0.18	0.15-0.30	0.20-0.35	0.25-0.40	0.30-0.45	0.35-0.55	0.35-0.60
0.12-0.18	0.15-0.30	0.20-0.35	0.25-0.40	0.30-0.45	0.35-0.55	0.35-0.60
0.12-0.18	0.15-0.30	0.20-0.35	0.25-0.40	0.30-0.45	0.35-0.55	0.35-0.60
0.12-0.18	0.15-0.30	0.20-0.35	0.25-0.40	0.30-0.45	0.35-0.55	0.35-0.60
	0.20-0.35	0.25-0.40	0.30-0.45	0.35-0.50	0.40-0.60	0.45-0.70
	0.20-0.35	0.25-0.40	0.30-0.45	0.35-0.50	0.40-0.60	0.45-0.70
	0.20-0.35	0.25-0.40	0.30-0.45	0.35-0.50	0.40-0.60	0.45-0.70
	0.20-0.35	0.25-0.40	0.30-0.45	0.35-0.50	0.40-0.60	0.45-0.70
	0.20-0.35	0.25-0.40	0.30-0.45	0.35-0.50	0.40-0.60	0.45-0.70
	0.20-0.35	0.25-0.40	0.30-0.45	0.35-0.50	0.40-0.60	0.45-0.70
	0.20-0.35	0.25-0.40	0.30-0.45	0.35-0.50	0.40-0.60	0.45-0.70
	0.20-0.35	0.25-0.40	0.30-0.45	0.35-0.50	0.40-0.60	0.45-0.70
0.05-0.07	0.06-0.11	0.08-0.13	0.10-0.15	0.12-0.18	0.12-0.20	0.14-0.22
0.05-0.07	0.06-0.11	0.08-0.13	0.10-0.15	0.12-0.18	0.12-0.20	0.14-0.22
0.05-0.07	0.06-0.11	0.08-0.13	0.10-0.15	0.12-0.18	0.12-0.20	0.14-0.22
0.05-0.07	0.06-0.11	0.08-0.13	0.10-0.15	0.12-0.18	0.12-0.20	0.14-0.22
0.05-0.07	0.06-0.11	0.08-0.13	0.10-0.15	0.12-0.18	0.12-0.20	0.14-0.22
0.05-0.07	0.06-0.12	0.08-0.15	0.10-0.18	0.12-0.20	0.14-0.22	0.16-0.25
0.05-0.07	0.06-0.12	0.08-0.15	0.10-0.18	0.12-0.20	0.14-0.22	0.16-0.25
0.05-0.07	0.06-0.12	0.08-0.15	0.10-0.18	0.12-0.20	0.14-0.22	0.16-0.25
0.05-0.07	0.06-0.12	0.08-0.15	0.10-0.18	0.12-0.20	0.14-0.22	0.16-0.25

Recommended Cutting Conditions

MODU-R-DRILL

Machining data for MODU-R-DRILL

ISO	Material		Condition	Tensile strength (N/mm²)	Hardness HB	Material No.	Cutting speed Vc (m/min)
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1	120-200
		>=0.25%C	Annealed	650	190	2	120-200
		<0.55%C	Quenched and tempered	850	250	3	130-190
		>=0.55%C	Annealed	750	220	4	130-190
			Quenched and tempered	1000	300	5	130-190
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	600	200	6	100-200
			Quenched and tempered	930	275	7	100-200
				1000	300	8	100-200
				1200	350	9	100-200
	High alloy steel, cast steel and tool steel		Annealed	680	200	10	100-160
			Quenched and tempered	1100	325	11	100-160
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12	80-140
			Martensitic	820	240	13	80-140
			Austenitic	600	180	14	80-140
K	Gray cast iron (GG)		Ferritic		160	15	100-250
			Pearlitic		250	16	100-250
	Cast iron nodular (GGG)		Ferritic		180	17	100-250
			Pearlitic		260	18	100-250
	Malleable cast iron		Ferritic		130	19	100-250
			Pearlitic		230	20	100-250
N	Aluminum - Wrought alloy		Not cureable		60	21	160-260
			Cured		100	22	160-260
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23	160-260
			Cured		90	24	160-260
		>12% Si	High temp.		130	25	160-260
	Copper alloys	>1% Pb	Free cutting		110	26	160-260
			Brass		90	27	160-260
			Electrolitic copper		100	28	160-260
	Non-metallic		Duroplastics, fiber plastics			29	
			Hard rubber			30	
S	High temp. alloys	Fe based	Annealed		200	31	30-60
			Cured		280	32	30-80
		Ni or Co based	Annealed		250	33	30-80
			Cured		350	34	30-80
			Cast		320	35	30-80
	Titanium, Ti alloys			Rm 400		36	30-80
			Alpha+beta alloys cured	Rm 1050		37	30-80
H	Hardened steel		Hardened		55HRC	38	20-50
			Hardened		60HRC	39	20-50
	Chilled cast iron		Cast		400	40	
	Cast iron nodular		Hardened		55HRC	41	

• For more information of material groups, see the materials & grades "material conversion table"

Steel Stainless steel Cast iron Nonferrous High temp. alloys Hardened steel

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Recommended Cutting Conditions

MODU-R-DRILL

Machining data for MODU-R-DRILL

Feed (mm/rev) vs. drill diameter					
SPGX 06 Ø26 - Ø28	SPGX 07 Ø29 - Ø32	SPGX 09 Ø33 - Ø36	SPGX 11 Ø37 - Ø43	SPGX 11 Ø44 - Ø45	SPGX 14 Ø46 - Ø50
0.20-0.35	0.25-0.35	0.2-0.4	0.25-0.4	0.28-0.45	0.28-0.45
0.20-0.35	0.25-0.35	0.2-0.4	0.25-0.4	0.28-0.45	0.28-0.45
0.20-0.35	0.25-0.35	0.2-0.4	0.25-0.4	0.28-0.45	0.28-0.45
0.20-0.35	0.25-0.35	0.2-0.4	0.25-0.4	0.28-0.45	0.28-0.45
0.20-0.35	0.25-0.35	0.2-0.4	0.25-0.4	0.28-0.45	0.28-0.45
0.20-0.33	0.25-0.33	0.25-0.36	0.25-0.36	0.25-0.40	0.25-0.40
0.20-0.33	0.25-0.33	0.25-0.36	0.25-0.36	0.25-0.40	0.25-0.40
0.20-0.33	0.25-0.33	0.25-0.36	0.25-0.36	0.25-0.40	0.25-0.40
0.20-0.33	0.25-0.33	0.25-0.36	0.25-0.36	0.25-0.40	0.25-0.40
0.20-0.33	0.25-0.33	0.25-0.36	0.25-0.36	0.25-0.40	0.25-0.40
0.20-0.33	0.25-0.33	0.25-0.36	0.25-0.36	0.25-0.40	0.25-0.40
0.12-0.24	0.15-0.24	0.16-0.25	0.18-0.28	0.18-0.30	0.18-0.30
0.12-0.24	0.15-0.24	0.16-0.25	0.18-0.28	0.18-0.30	0.18-0.30
0.12-0.24	0.15-0.24	0.16-0.25	0.18-0.28	0.18-0.30	0.18-0.30
0.25-0.45	0.25-0.45	0.3-0.5	0.3-0.5	0.35-0.55	0.35-0.55
0.25-0.45	0.25-0.45	0.3-0.5	0.3-0.5	0.35-0.55	0.35-0.55
0.25-0.45	0.25-0.45	0.3-0.5	0.3-0.5	0.35-0.55	0.35-0.55
0.25-0.45	0.25-0.45	0.3-0.5	0.3-0.5	0.35-0.55	0.35-0.55
0.25-0.45	0.25-0.45	0.3-0.5	0.3-0.5	0.35-0.55	0.35-0.55
0.25-0.45	0.25-0.45	0.3-0.5	0.3-0.5	0.35-0.55	0.35-0.55
0.3-0.5	0.3-0.5	0.35-0.55	0.35-0.55	0.4-0.6	0.4-0.6
0.3-0.5	0.3-0.5	0.35-0.55	0.35-0.55	0.4-0.6	0.4-0.6
0.3-0.5	0.3-0.5	0.35-0.55	0.35-0.55	0.4-0.6	0.4-0.6
0.3-0.5	0.3-0.5	0.35-0.55	0.35-0.55	0.4-0.6	0.4-0.6
0.3-0.5	0.3-0.5	0.35-0.55	0.35-0.55	0.4-0.6	0.4-0.6
0.3-0.5	0.3-0.5	0.35-0.55	0.35-0.55	0.4-0.6	0.4-0.6
0.3-0.5	0.3-0.5	0.35-0.55	0.35-0.55	0.4-0.6	0.4-0.6
0.3-0.5	0.3-0.5	0.35-0.55	0.35-0.55	0.4-0.6	0.4-0.6
0.1-0.16	0.10-0.18	0.15-0.20	0.15-0.22	0.16-0.24	0.16-0.24
0.1-0.16	0.10-0.18	0.15-0.20	0.15-0.22	0.16-0.24	0.16-0.24
0.1-0.16	0.10-0.18	0.15-0.20	0.15-0.22	0.16-0.24	0.16-0.24
0.1-0.16	0.10-0.18	0.15-0.20	0.15-0.22	0.16-0.24	0.16-0.24
0.1-0.16	0.10-0.18	0.15-0.20	0.15-0.22	0.16-0.24	0.16-0.24
0.1-0.16	0.10-0.18	0.15-0.20	0.15-0.22	0.16-0.24	0.16-0.24
0.1-0.16	0.10-0.18	0.15-0.20	0.15-0.22	0.16-0.24	0.16-0.24
0.1-0.16	0.12-0.18	0.14-0.20	0.14-0.20	0.16-0.22	0.16-0.22
0.1-0.16	0.12-0.18	0.14-0.20	0.14-0.20	0.16-0.22	0.16-0.22

Recommended Cutting Conditions

SPADE RUSH

Machining data for SPADE-RUSH

ISO	Material		Condition	Tensile strength (N/mm^2)	Hardness HB	Material No.	Cutting speed Vc (m/min)
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1	80-140
		>=0.25%C	Annealed	650	190	2	80-130
		<0.55%C	Quenched and tempered	850	250	3	80-120
		>=0.55%C	Annealed	750	220	4	70-110
			Quenched and tempered	1000	300	5	50-90
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	600	200	6	80-120
			Quenched and tempered	930	275	7	70-110
				1000	300	8	50-90
				1200	350	9	40-70
	High alloy steel, cast steel and tool steel		Annealed	680	200	10	50-90
			Quenched and tempered	1100	325	11	40-80
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12	40-70
			Martensitic	820	240	13	40-70
			Austenitic	600	180	14	30-70
K	Gray cast iron (GG)		Ferritic		160	15	90-180
			Pearlitic		250	16	80-140
	Cast iron nodular (GGG)		Ferritic		180	17	90-165
			Pearlitic		260	18	80-140
	Malleable cast iron		Ferritic		130	19	90-160
			Pearlitic		230	20	80-140
N	Aluminum - Wrought alloy		Not cureable		60	21	90-220
			Cured		100	22	90-220
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23	90-220
			Cured		90	24	90-220
		>12% Si	High temp.		130	25	80-160
	Copper alloys	>1% Pb	Free cutting		110	26	90-220
			Brass		90	27	90-220
			Electrolitic copper		100	28	90-220
	Non-metallic		Duroplastics, fiber plastics			29	
			Hard rubber			30	
S	High temp. alloys	Fe based	Annealed		200	31	30-60
			Cured		280	32	20-50
		Ni or Co based	Annealed		250	33	20-50
			Cured		350	34	20-50
			Cast		320	35	20-50
	Titanium, Ti alloys			Rm 400		36	20-50
			Alpha+beta alloys cured	Rm 1050		37	20-50
H	Hardened steel		Hardened		55HRC	38	20-50
			Hardened		60HRC	39	20-50
	Chilled cast iron		Cast		400	40	
	Cast iron nodular		Hardened		55HRC	41	

• For more information of material groups, see the materials & grades "material conversion table"

Steel Stainless steel Cast iron Nonferrous High temp. alloys Hardened steel

ADVANCE MACHINING
TaeguTec Industry 4.0

Recommended Cutting Conditions

SPADE RUSH

Machining data for SPADE-RUSH

Feed (mm/rev) vs. drill diameter			
Ø20 - Ø25.9	Ø26 - Ø29.9	Ø30 - Ø34.9	Ø35 - Ø41
0.30-0.50	0.30-0.50	0.30-0.50	0.35-0.55
0.30-0.50	0.30-0.50	0.30-0.50	0.35-0.55
0.30-0.50	0.30-0.50	0.30-0.50	0.35-0.55
0.30-0.50	0.30-0.50	0.30-0.50	0.35-0.55
0.30-0.50	0.30-0.50	0.30-0.50	0.35-0.55
0.25-0.45	0.25-0.45	0.25-0.45	0.30-0.50
0.25-0.45	0.25-0.45	0.25-0.45	0.30-0.50
0.25-0.45	0.25-0.45	0.25-0.45	0.30-0.50
0.25-0.45	0.25-0.45	0.25-0.45	0.30-0.50
0.25-0.35	0.25-0.35	0.25-0.35	0.30-0.40
0.25-0.35	0.25-0.35	0.25-0.35	0.30-0.40
0.15-0.30	0.15-0.30	0.15-0.30	0.20-0.35
0.15-0.30	0.15-0.30	0.15-0.30	0.20-0.35
0.15-0.30	0.15-0.30	0.15-0.30	0.20-0.35
0.35-0.55	0.35-0.55	0.35-0.55	0.40-0.60
0.35-0.55	0.35-0.55	0.35-0.55	0.40-0.60
0.35-0.55	0.35-0.55	0.35-0.55	0.40-0.60
0.35-0.55	0.35-0.55	0.35-0.55	0.40-0.60
0.35-0.55	0.35-0.55	0.35-0.55	0.40-0.60
0.35-0.55	0.35-0.55	0.35-0.55	0.40-0.60
0.40-0.60	0.40-0.60	0.40-0.60	0.50-0.70
0.40-0.60	0.40-0.60	0.40-0.60	0.50-0.70
0.40-0.60	0.40-0.60	0.40-0.60	0.50-0.70
0.40-0.60	0.40-0.60	0.40-0.60	0.50-0.70
0.40-0.60	0.40-0.60	0.40-0.60	0.50-0.70
0.40-0.60	0.40-0.60	0.40-0.60	0.50-0.70
0.40-0.60	0.40-0.60	0.40-0.60	0.50-0.70
0.40-0.60	0.40-0.60	0.40-0.60	0.50-0.70
0.10-0.20	0.10-0.20	0.15-0.25	0.15-0.25
0.10-0.20	0.10-0.20	0.15-0.25	0.15-0.25
0.10-0.20	0.10-0.20	0.15-0.25	0.15-0.25
0.10-0.20	0.10-0.20	0.15-0.25	0.15-0.25
0.10-0.20	0.10-0.20	0.15-0.25	0.15-0.25
0.10-0.20	0.10-0.20	0.15-0.25	0.15-0.25
0.10-0.20	0.10-0.20	0.15-0.25	0.15-0.25
0.10-0.20	0.10-0.20	0.15-0.25	0.15-0.25
0.10-0.20	0.10-0.20	0.15-0.25	0.15-0.25

Recommended Cutting Conditions

SOLID3DRILL

Machining data for SOLID-3-DRILL

ISO	Material		Condition	Tensile strength (N/mm^2)	Hardness HB	Material No.	Cutting speed Vc (m/min)
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1	80-140
		>=0.25%C	Annealed	650	190	2	80-130
		<0.55%C	Quenched and tempered	850	250	3	80-120
		>=0.55%C	Annealed	750	220	4	70-110
			Quenched and tempered	1000	300	5	50-90
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	600	200	6	80-120
			Quenched and tempered	930	275	7	70-110
				1000	300	8	50-90
				1200	350	9	40-70
	High alloy steel, cast steel and tool steel		Annealed	680	200	10	50-90
			Quenched and tempered	1100	325	11	40-80
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12	
			Martensitic	820	240	13	
			Austenitic	600	180	14	
K	Gray cast iron (GG)		Ferritic		160	15	80-140
			Pearlitic		250	16	70-120
	Cast iron nodular (GGG)		Ferritic		180	17	80-120
			Pearlitic		260	18	70-110
	Malleable cast iron		Ferritic		130	19	80-120
			Pearlitic		230	20	70-110
N	Aluminum - Wrought alloy		Not cureable		60	21	
			Cured		100	22	
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23	
			Cured		90	24	
		>12% Si	High temp.		130	25	
	Copper alloys	>1% Pb	Free cutting		110	26	
			Brass		90	27	
			Electrolitic copper		100	28	
	Non-metallic		Duroplastics, fiber plastics			29	
			Hard rubber			30	
S	High temp. alloys	Fe based	Annealed		200	31	
			Cured		280	32	
		Ni or Co based	Annealed		250	33	
			Cured		350	34	
			Cast		320	35	
	Titanium, Ti alloys			Rm 400		36	
			Alpha+beta alloys cured	Rm 1050		37	
H	Hardened steel		Hardened		55HRC	38	
			Hardened		60HRC	39	
	Chilled cast iron		Cast		400	40	
	Cast iron nodular		Hardened		55HRC	41	

• For more information of material groups, see the materials & grades "material conversion table"

Steel | Stainless steel | Cast iron | Nonferrous | High temp. alloys | Hardened steel

ADVANCE MACHINING
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Recommended Cutting Conditions

SOLID3DRILL

Machining data for SOLID-3-DRILL

Feed (mm/rev) vs. drill diameter				
Ø4 - Ø5	Ø5.1 - Ø6	Ø6.1 - Ø8	Ø8.1 - Ø10	Ø10.1 - Ø12
0.15-0.25	0.20-0.35	0.25-0.45	0.30-0.55	0.35-0.60
0.15-0.25	0.20-0.35	0.25-0.45	0.30-0.55	0.35-0.60
0.15-0.25	0.20-0.35	0.25-0.45	0.30-0.55	0.35-0.60
0.15-0.25	0.20-0.35	0.25-0.45	0.30-0.55	0.35-0.60
0.15-0.25	0.20-0.35	0.25-0.45	0.30-0.55	0.35-0.60
0.15-0.25	0.20-0.35	0.25-0.40	0.30-0.50	0.35-0.55
0.15-0.25	0.20-0.35	0.25-0.40	0.30-0.50	0.35-0.55
0.15-0.25	0.20-0.35	0.25-0.40	0.30-0.50	0.35-0.55
0.15-0.25	0.20-0.35	0.25-0.40	0.30-0.50	0.35-0.55
0.15-0.20	0.20-0.30	0.25-0.35	0.30-0.45	0.35-0.50
0.15-0.20	0.20-0.30	0.25-0.35	0.30-0.45	0.35-0.50
0.20-0.30	0.25-0.45	0.35-0.55	0.40-0.60	0.45-0.65
0.20-0.30	0.25-0.45	0.35-0.55	0.40-0.60	0.45-0.65
0.20-0.30	0.20-0.40	0.30-0.50	0.35-0.55	0.40-0.60
0.20-0.30	0.20-0.40	0.30-0.50	0.35-0.55	0.40-0.60
0.20-0.30	0.20-0.40	0.30-0.50	0.35-0.55	0.40-0.60
0.20-0.30	0.20-0.40	0.30-0.50	0.35-0.55	0.40-0.60

Recommended Cutting Conditions

HDRILL

Machining data for H-DRILL

ISO	Material		Condition	Tensile strength (N/mm^2)	Hardness HB	Material No.	Cutting speed Vc (m/min)
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1	80-120
		>=0.25%C	Annealed	650	190	2	80-110
		<0.55%C	Quenched and tempered	850	250	3	70-100
		>=0.55%C	Annealed	750	220	4	70-100
			Quenched and tempered	1000	300	5	70-100
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	600	200	6	70-90
			Quenched and tempered	930	275	7	70-90
				1000	300	8	50-80
				1200	350	9	40-70
	High alloy steel, cast steel and tool steel		Annealed	680	200	10	50-80
			Quenched and tempered	1100	325	11	40-70
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12	30-60
			Martensitic	820	240	13	30-60
			Austenitic	600	180	14	30-60
K	Gray cast iron (GG)		Ferritic		160	15	65-80
			Pearlitic		250	16	65-80
	Cast iron nodular (GGG)		Ferritic		180	17	85-105
			Pearlitic		260	18	75-90
	Malleable cast iron		Ferritic		130	19	65-80
			Pearlitic		230	20	65-80
N	Aluminum - Wrought alloy		Not cureable		60	21	70-200
			Cured		100	22	70-200
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23	70-200
			Cured		90	24	70-200
		>12% Si	High temp.		130	25	70-150
	Copper alloys	>1% Pb	Free cutting		110	26	70-200
			Brass		90	27	70-200
			Electrolitic copper		100	28	70-200
	Non-metallic		Duroplastics, fiber plastics			29	
			Hard rubber			30	
S	High temp. alloys	Fe based	Annealed		200	31	15-40
			Cured		280	32	15-40
		Ni or Co based	Annealed		250	33	15-40
			Cured		350	34	15-40
			Cast		320	35	15-40
	Titanium, Ti alloys			Rm 400		36	
			Alpha+beta alloys cured	Rm 1050		37	
H	Hardened steel		Hardened		55HRC	38	10-40
			Hardened		60HRC	39	10-40
	Chilled cast iron		Cast		400	40	
	Cast iron nodular		Hardened		55HRC	41	

• For more information of material groups, see the materials & grades "material conversion table"

Steel Stainless steel Cast iron Nonferrous High temp. alloys Hardened steel

ADVANCE MACHINING
TaeguTec Industry 4.0

Recommended Cutting Conditions

HDRILL

Machining data for H-DRILL

Feed (mm/rev) vs. drill diameter		
Ø3 - Ø5	Ø5.1 - Ø8	Ø8.1 - Ø12
0.10-0.20	0.15-0.25	0.20-0.30
0.10-0.20	0.15-0.25	0.20-0.30
0.10-0.20	0.15-0.25	0.20-0.30
0.10-0.20	0.15-0.25	0.20-0.30
0.10-0.20	0.15-0.25	0.20-0.30
0.10-0.20	0.15-0.25	0.20-0.30
0.10-0.20	0.15-0.25	0.20-0.30
0.10-0.20	0.15-0.25	0.20-0.30
0.10-0.20	0.15-0.25	0.20-0.30
0.08-0.18	0.10-0.20	0.15-0.25
0.08-0.18	0.10-0.20	0.15-0.25
0.06-0.12	0.10-0.15	0.12-0.18
0.06-0.12	0.10-0.15	0.12-0.18
0.06-0.12	0.10-0.15	0.12-0.18
0.10-0.20	0.15-0.25	0.20-0.30
0.10-0.20	0.15-0.25	0.20-0.30
0.10-0.20	0.15-0.25	0.20-0.30
0.10-0.20	0.15-0.25	0.20-0.30
0.10-0.20	0.15-0.25	0.20-0.30
0.10-0.20	0.15-0.25	0.20-0.30
0.10-0.25	0.15-0.35	0.25-0.45
0.10-0.25	0.15-0.35	0.25-0.45
0.10-0.25	0.15-0.35	0.25-0.45
0.10-0.25	0.15-0.35	0.25-0.45
0.10-0.25	0.15-0.35	0.25-0.45
0.08-0.18	0.15-0.25	0.20-0.35
0.08-0.18	0.15-0.25	0.20-0.35
0.08-0.18	0.15-0.25	0.20-0.35
0.02-0.08	0.04-0.10	0.06-0.12
0.02-0.08	0.04-0.10	0.06-0.12
0.02-0.08	0.04-0.10	0.06-0.12
0.02-0.08	0.04-0.10	0.06-0.12
0.02-0.08	0.04-0.10	0.06-0.12
0.02-0.08	0.04-0.10	0.06-0.12
0.02-0.08	0.04-0.10	0.06-0.12

Recommended Cutting Conditions

TOPCAP

Machining data for TOP-CAP

ISO	Material		Condition	Tensile strength (N/mm^2)	Hardness HB	Material No.
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1
		>=0.25%C	Annealed	650	190	2
		<0.55%C	Quenched and tempered	850	250	3
		>=0.55%C	Annealed	750	220	4
			Quenched and tempered	1000	300	5
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	600	200	6
			Quenched and tempered	930	275	7
				1000	300	8
				1200	350	9
	High alloy steel, cast steel and tool steel		Annealed	680	200	10
			Quenched and tempered	1100	325	11
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12
			Martensitic	820	240	13
			Austenitic	600	180	14
K	Gray cast iron (GG)		Ferritic		160	15
			Pearlitic		250	16
	Cast iron nodular (GGG)		Ferritic		180	17
			Pearlitic		260	18
	Malleable cast iron		Ferritic		130	19
			Pearlitic		230	20
N	Aluminum - Wrought alloy		Not cureable		60	21
			Cured		100	22
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23
			Cured		90	24
		>12% Si	High temp.		130	25
	Copper alloys	>1% Pb	Free cutting		110	26
			Brass		90	27
			Electrolitic copper		100	28
	Non-metallic		Duroplastics, fiber plastics			29
			Hard rubber			30
S	High temp. alloys	Fe based	Annealed		200	31
			Cured		280	32
		Ni or Co based	Annealed		250	33
			Cured		350	34
			Cast		320	35
	Titanium, Ti alloys			Rm 400		36
			Alpha+beta alloys cured	Rm 1050		37
H	Hardened steel		Hardened		55HRC	38
			Hardened		60HRC	39
	Chilled cast iron		Cast		400	40
	Cast iron nodular		Hardened		55HRC	41

• For more information of material groups, see the materials & grades "material conversion table"

Steel Stainless steel Cast iron Nonferrous High temp. alloys Hardened steel

Recommended Cutting Conditions

TOPCAP

Machining data for TOP-CAP

Drilling		Turning & boring		Grooving	
Vc (m/min)	Feed (mm/rev)	Vc (m/min)	Feed (mm/rev)	Vc (m/min)	Feed (mm/rev)
120-260	0.05-0.06	140-280	0.04-0.14	120-250	0.04-0.25
80-190	0.05-0.15	90-200	0.04-0.12	80-180	0.04-0.25
100-280	0.06-0.18	100-200	0.04-0.15	80-180	0.04-0.25
100-280	0.06-0.18	100-200	0.04-0.15	80-180	0.04-0.25
100-280	0.06-0.18	100-200	0.04-0.15	80-180	0.04-0.25
100-280	0.06-0.18	100-200	0.04-0.15	80-180	0.04-0.25
60-180	0.04-0.15	80-180	0.07-0.12	60-160	0.04-0.25
60-180	0.04-0.15	80-180	0.07-0.12	60-160	0.04-0.25
60-180	0.04-0.15	80-180	0.07-0.12	60-160	0.04-0.25
80-190	0.05-0.15	80-200	0.04-0.12	80-160	0.04-0.25
50-150	0.04-0.14	60-150	0.04-0.12	50-120	0.04-0.25
50-210	0.04-0.15	60-230	0.07-0.12	50-200	0.04-0.25
50-210	0.04-0.15	60-230	0.07-0.12	50-200	0.04-0.25
50-210	0.04-0.15	60-230	0.07-0.12	50-200	0.04-0.25
100-300	0.06-0.23	120-230	0.07-0.2	100-200	0.04-0.25
100-300	0.06-0.23	120-230	0.07-0.2	100-200	0.04-0.25
100-300	0.06-0.23	120-230	0.07-0.2	100-200	0.04-0.25
100-300	0.06-0.23	120-230	0.07-0.2	100-200	0.04-0.25
100-200	0.06-0.15	120-230	0.04-0.13	100-200	0.04-0.25
100-200	0.06-0.15	120-230	0.04-0.13	100-200	0.04-0.25
120-500	0.05-0.3	120-700	0.04-0.25	100-700	0.04-0.25
120-500	0.05-0.3	120-700	0.04-0.25	100-700	0.04-0.25
120-500	0.05-0.3	120-700	0.04-0.25	100-700	0.04-0.25
120-500	0.05-0.3	120-700	0.04-0.25	100-700	0.04-0.25
120-500	0.05-0.3	120-700	0.04-0.25	100-700	0.04-0.25
80-380	0.05-0.23	80-500	0.04-0.2	80-350	0.04-0.25
80-380	0.05-0.23	80-500	0.04-0.2	80-350	0.04-0.25
80-380	0.05-0.23	80-500	0.04-0.2	80-350	0.04-0.25
50-140	0.04-0.14	50-160	0.04-0.12	50-140	0.04-0.25
50-140	0.04-0.14	50-160	0.04-0.12	50-140	0.04-0.25
20-50	0.04-0.05	20-80	0.04-0.05	20-50	0.04-0.05
20-50	0.04-0.05	20-80	0.04-0.05	20-50	0.04-0.05
20-50	0.04-0.05	20-80	0.04-0.05	20-50	0.04-0.05
20-50	0.04-0.05	20-80	0.04-0.05	20-50	0.04-0.05
20-50	0.04-0.05	20-80	0.04-0.05	20-50	0.04-0.05
30-60	0.04-0.05	30-100	0.04-0.05	30-80	0.04-0.05
30-60	0.04-0.05	30-100	0.04-0.05	30-80	0.04-0.05
20-40	0.04-0.05	20-70	0.04-0.05	20-50	0.04-0.05
20-40	0.04-0.05	20-70	0.04-0.05	20-50	0.04-0.05
20-40	0.04-0.05	20-70	0.04-0.05	20-50	0.04-0.05
20-40	0.04-0.05	20-70	0.04-0.05	20-50	0.04-0.05

Recommended Cutting Conditions

TDEEP

Machining data for TBTA 3/5/7/9 & TBTA-R

ISO	Material		Condition	Tensile strength (N/mm^2)	Hardness HB	Material No.	Cutting speed Vc (m/min)
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1	60-120
		>=0.25%C	Annealed	650	190	2	60-120
		<0.55%C	Quenched and tempered	850	250	3	60-120
		>=0.55%C	Annealed	750	220	4	60-120
			Quenched and tempered	1000	300	5	50-100
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	600	200	6	50-100
			Quenched and tempered	930	275	7	50-100
				1000	300	8	50-100
				1200	350	9	50-100
	High alloy steel, cast steel and tool steel		Annealed	680	200	10	60-120
			Quenched and tempered	1100	325	11	60-120
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12	60-110
			Martensitic	820	240	13	60-110
			Austenitic	600	180	14	60-110
K	Gray cast iron (GG)		Ferritic		160	15	60-100
			Pearlitic		250	16	60-100
	Cast iron nodular (GGG)		Ferritic		180	17	60-100
			Pearlitic		260	18	60-100
	Malleable cast iron		Ferritic		130	19	60-100
			Pearlitic		230	20	60-100
N	Aluminum - Wrought alloy		Not cureable		60	21	60-130
			Cured		100	22	60-130
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23	60-130
			Cured		90	24	60-130
		>12% Si	High temp.		130	25	60-130
	Copper alloys	>1% Pb	Free cutting		110	26	60-130
			Brass		90	27	60-130
			Electrolitic copper		100	28	60-130
	Non-metallic		Duroplastics, fiber plastics			29	
			Hard rubber			30	
S	High temp. alloys	Fe based	Annealed		200	31	20-65
			Cured		280	32	20-65
		Ni or Co based	Annealed		250	33	20-65
			Cured		350	34	20-65
			Cast		320	35	20-65
	Titanium, Ti alloys			Rm 400		36	30-100
			Alpha+beta alloys cured	Rm 1050		37	30-100
H	Hardened steel		Hardened		55HRC	38	
			Hardened		60HRC	39	
	Chilled cast iron		Cast		400	40	
	Cast iron nodular		Hardened		55HRC	41	

• For more information of material groups, see the materials & grades "material conversion table"

Steel Stainless steel Cast iron Nonferrous High temp. alloys Hardened steel

Recommended Cutting Conditions

TDEEP

Machining data for TBTA 3/5/7/9 & TBTA-R

Feed (mm/rev) vs. drill diameter				
Ø38.00 - Ø39.99	Ø40.00 - Ø51.99	Ø52.00 - Ø63.99	Ø64.00 - Ø84.99	Ø85.00 -
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.13	0.10-0.15	0.13-0.18	0.15-0.20	0.18-0.23
0.08-0.13	0.10-0.15	0.13-0.18	0.15-0.20	0.18-0.23
0.08-0.13	0.10-0.15	0.13-0.18	0.15-0.20	0.18-0.23
0.08-0.13	0.10-0.15	0.13-0.18	0.15-0.20	0.18-0.23
0.08-0.13	0.10-0.15	0.13-0.18	0.15-0.20	0.18-0.23
0.08-0.13	0.10-0.15	0.13-0.18	0.15-0.20	0.18-0.23
0.08-0.20	0.10-0.25	0.13-0.28	0.15-0.30	0.18-0.33
0.08-0.20	0.10-0.25	0.13-0.28	0.15-0.30	0.18-0.33
0.08-0.20	0.10-0.25	0.13-0.28	0.15-0.30	0.18-0.33
0.08-0.20	0.10-0.25	0.13-0.28	0.15-0.30	0.18-0.33
0.08-0.20	0.10-0.25	0.13-0.28	0.15-0.30	0.18-0.33
0.08-0.20	0.10-0.25	0.13-0.28	0.15-0.30	0.18-0.33
0.08-0.20	0.10-0.25	0.13-0.28	0.15-0.30	0.18-0.33
0.08-0.20	0.10-0.25	0.13-0.28	0.15-0.30	0.18-0.33
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30

Recommended Cutting Conditions

TDEEP

Machining data for TBTA-FB

ISO	Material		Condition	Tensile strength (N/mm^2)	Hardness HB	Material No.	Cutting speed Vc (m/min)
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1	70-130
		>=0.25%C	Annealed	650	190	2	70-130
		<0.55%C	Quenched and tempered	850	250	3	70-130
		>=0.55%C	Annealed	750	220	4	70-130
			Quenched and tempered	1000	300	5	70-130
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	600	200	6	70-120
			Quenched and tempered	930	275	7	60-120
				1000	300	8	60-120
				1200	350	9	60-120
	High alloy steel, cast steel and tool steel		Annealed	680	200	10	70-130
			Quenched and tempered	1100	325	11	70-130
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12	70-130
			Martensitic	820	240	13	70-130
			Austenitic	600	180	14	70-130
K	Gray cast iron (GG)		Ferritic		160	15	60-110
			Pearlitic		250	16	60-110
	Cast iron nodular (GGG)		Ferritic		180	17	50-110
			Pearlitic		260	18	50-110
	Malleable cast iron		Ferritic		130	19	70-110
			Pearlitic		230	20	70-110
N	Aluminum - Wrought alloy		Not cureable		60	21	65-130
			Cured		100	22	65-130
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23	65-130
			Cured		90	24	65-130
		>12% Si	High temp.		130	25	65-130
	Copper alloys	>1% Pb	Free cutting		110	26	65-130
			Brass		90	27	65-130
			Electrolitic copper		100	28	65-130
	Non-metallic		Duroplastics, fiber plastics			29	
			Hard rubber			30	
S	High temp. alloys	Fe based	Annealed		200	31	20-50
			Cured		280	32	20-50
		Ni or Co based	Annealed		250	33	20-50
			Cured		350	34	20-50
			Cast		320	35	20-50
	Titanium, Ti alloys			Rm 400		36	30-60
			Alpha+beta alloys cured	Rm 1050		37	30-60
H	Hardened steel		Hardened		55HRC	38	
			Hardened		60HRC	39	
	Chilled cast iron		Cast		400	40	
	Cast iron nodular		Hardened		55HRC	41	

• For more information of material groups, see the materials & grades "material conversion table"

Steel Stainless steel Cast iron Nonferrous High temp. alloys Hardened steel

ADVANCE MACHINING
TaeguTec Industry 4.0

Recommended Cutting Conditions

TDEEP

Machining data for TBTA-FB

Feed (mm/rev) vs. drill diameter			
Ø25.00 - Ø43.00	Ø43.01 - Ø65.00		
0.10-0.30	0.12-0.35		
0.10-0.30	0.12-0.35		
0.10-0.30	0.12-0.35		
0.10-0.30	0.12-0.35		
0.10-0.30	0.12-0.35		
0.10-0.30	0.12-0.35		
0.10-0.30	0.12-0.35		
0.10-0.30	0.12-0.35		
0.10-0.30	0.12-0.35		
0.10-0.30	0.12-0.35		
0.10-0.30	0.12-0.35		
0.10-0.30	0.12-0.35		
0.10-0.30	0.12-0.35		
0.10-0.30	0.12-0.35		
0.10-0.25	0.12-0.35		
0.10-0.25	0.12-0.35		
0.10-0.25	0.12-0.35		
0.10-0.25	0.12-0.35		
0.10-0.25	0.12-0.35		
0.10-0.25	0.12-0.35		
0.10-0.25	0.12-0.35		
0.08-0.23	0.12-0.27		
0.08-0.23	0.12-0.27		
0.08-0.23	0.12-0.27		
0.08-0.23	0.12-0.27		
0.08-0.23	0.12-0.27		
0.08-0.23	0.12-0.27		
0.08-0.23	0.12-0.27		
0.08-0.23	0.12-0.27		
0.08-0.23	0.12-0.27		
0.08-0.23	0.12-0.27		
0.08-0.23	0.12-0.27		
0.08-0.23	0.12-0.27		
0.08-0.23	0.12-0.27		
0.08-0.23	0.12-0.27		
0.08-0.23	0.12-0.27		
0.08-0.23	0.12-0.27		

Recommended Cutting Conditions

TDEEP

Machining data for BTA & BTS

ISO	Material		Condition	Tensile strength (N/mm^2)	Hardness HB	Material No.	Cutting speed Vc (m/min)
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1	70-120
		>=0.25%C	Annealed	650	190	2	70-120
		<0.55%C	Quenched and tempered	850	250	3	40-70
		>=0.55%C	Annealed	750	220	4	70-120
			Quenched and tempered	1000	300	5	55-100
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	600	200	6	70-100
			Quenched and tempered	930	275	7	55-100
				1000	300	8	55-100
				1200	350	9	55-100
	High alloy steel, cast steel and tool steel		Annealed	680	200	10	50-85
			Quenched and tempered	1100	325	11	55-100
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12	60-100
			Martensitic	820	240	13	60-100
			Austenitic	600	180	14	60-100
K	Gray cast iron (GG)		Ferritic		160	15	60-100
			Pearlitic		250	16	60-100
	Cast iron nodular (GGG)		Ferritic		180	17	80-100
			Pearlitic		260	18	80-100
	Malleable cast iron		Ferritic		130	19	50-100
			Pearlitic		230	20	50-100
N	Aluminum - Wrought alloy		Not cureable		60	21	65-130
			Cured		100	22	65-100
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23	65-130
			Cured		90	24	65-130
		>12% Si	High temp.		130	25	65-130
	Copper alloys	>1% Pb	Free cutting		110	26	65-130
			Brass		90	27	65-130
			Electrolitic copper		100	28	65-130
	Non-metallic		Duroplastics, fiber plastics			29	
			Hard rubber			30	
S	High temp. alloys	Fe based	Annealed		200	31	10-50
			Cured		280	32	10-50
		Ni or Co based	Annealed		250	33	10-50
			Cured		350	34	10-50
			Cast		320	35	10-50
	Titanium, Ti alloys			Rm 400		36	30-50
			Alpha+beta alloys cured	Rm 1050		37	30-50
H	Hardened steel		Hardened		55HRC	38	
			Hardened		60HRC	39	
	Chilled cast iron		Cast		400	40	
	Cast iron nodular		Hardened		55HRC	41	

• For more information of material groups, see the materials & grades "material conversion table"

Steel Stainless steel Cast iron Nonferrous High temp. alloys Hardened steel

ADVANCE MACHINING
TaeguTec Industry 4.0

Recommended Cutting Conditions

TDEEP

Machining data for BTA & BTS

Feed (mm/rev) vs. drill diameter				
Ø8.00 - Ø20.00	Ø15.60 - Ø20.00	Ø20.01 - Ø31.00	Ø31.01 - Ø43.00	Ø43.01 - Ø65.00
0.05-0.13	0.08-0.15	0.10-0.17	0.13-0.20	0.16-0.30
0.05-0.13	0.08-0.15	0.10-0.17	0.13-0.20	0.16-0.30
0.05-0.13	0.08-0.15	0.10-0.17	0.13-0.20	0.16-0.30
0.05-0.13	0.08-0.15	0.10-0.17	0.13-0.20	0.16-0.30
0.05-0.10	0.08-0.12	0.10-0.15	0.13-0.17	0.15-0.28
0.05-0.13	0.08-0.15	0.10-0.17	0.13-0.20	0.16-0.30
0.05-0.10	0.08-0.12	0.10-0.15	0.13-0.17	0.15-0.28
0.05-0.10	0.08-0.12	0.10-0.15	0.13-0.17	0.15-0.28
0.05-0.10	0.08-0.12	0.10-0.15	0.13-0.17	0.15-0.28
0.05-0.13	0.08-0.15	0.10-0.17	0.13-0.20	0.16-0.30
0.05-0.10	0.08-0.12	0.10-0.15	0.13-0.17	0.15-0.28
0.05-0.13	0.08-0.15	0.10-0.28	0.13-0.30	0.16-0.35
0.05-0.13	0.08-0.15	0.10-0.28	0.13-0.30	0.16-0.35
0.05-0.12	0.05-0.12	0.08-0.25	0.10-0.28	0.15-0.33
0.05-0.13	0.06-0.13	0.08-0.18	0.10-0.20	0.15-0.25
0.05-0.13	0.06-0.13	0.08-0.18	0.10-0.20	0.15-0.25
0.05-0.13	0.08-0.15	0.10-0.17	0.13-0.20	0.16-0.30
0.05-0.13	0.08-0.15	0.10-0.17	0.13-0.20	0.16-0.30
0.05-0.13	0.06-0.13	0.08-0.18	0.10-0.20	0.15-0.25
0.05-0.13	0.06-0.13	0.08-0.18	0.10-0.20	0.15-0.25
0.05-0.13	0.08-0.15	0.10-0.20	0.15-0.25	0.16-0.30
0.05-0.13	0.08-0.15	0.10-0.20	0.15-0.25	0.16-0.30
0.05-0.13	0.08-0.15	0.10-0.20	0.15-0.25	0.16-0.30
0.05-0.13	0.08-0.15	0.10-0.20	0.15-0.25	0.16-0.30
0.05-0.13	0.08-0.15	0.10-0.20	0.15-0.25	0.16-0.30
0.05-0.13	0.08-0.15	0.10-0.20	0.15-0.25	0.16-0.30
0.05-0.13	0.08-0.15	0.10-0.20	0.15-0.25	0.16-0.30
0.05-0.13	0.08-0.15	0.10-0.20	0.15-0.25	0.16-0.30
0.05-0.12	0.06-0.12	0.08-0.15	0.12-0.18	0.15-0.25
0.05-0.12	0.06-0.12	0.08-0.15	0.12-0.18	0.15-0.25
0.05-0.12	0.06-0.12	0.08-0.15	0.12-0.18	0.15-0.25
0.05-0.12	0.06-0.12	0.08-0.15	0.12-0.18	0.15-0.25
0.05-0.12	0.06-0.12	0.08-0.15	0.12-0.18	0.15-0.25
0.05-0.10	0.05-0.10	0.08-0.12	0.10-0.15	0.12-0.20
0.05-0.10	0.05-0.10	0.08-0.12	0.10-0.15	0.12-0.20

Recommended Cutting Conditions

TDEEP

Machining data for TRGD / TRGDL / TBTA-TR

ISO	Material		Condition	Tensile strength (N/mm^2)	Hardness HB	Material No.
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1
		>=0.25%C	Annealed	650	190	2
		<0.55%C	Quenched and tempered	850	250	3
		>=0.55%C	Annealed	750	220	4
			Quenched and tempered	1000	300	5
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	600	200	6
			Quenched and tempered	930	275	7
				1000	300	8
				1200	350	9
	High alloy steel, cast steel and tool steel		Annealed	680	200	10
			Quenched and tempered	1100	325	11
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12
			Martensitic	820	240	13
			Austenitic	600	180	14
K	Gray cast iron (GG)		Ferritic		160	15
			Pearlitic		250	16
	Cast iron nodular (GGG)		Ferritic		180	17
			Pearlitic		260	18
	Malleable cast iron		Ferritic		130	19
			Pearlitic		230	20
N	Aluminum - Wrought alloy		Not cureable		60	21
			Cured		100	22
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23
			Cured		90	24
		>12% Si	High temp.		130	25
	Copper alloys	>1% Pb	Free cutting		110	26
			Brass		90	27
			Electrolitic copper		100	28
	Non-metallic		Duroplastics, fiber plastics			29
			Hard rubber			30
S	High temp. alloys	Fe based	Annealed		200	31
			Cured		280	32
		Ni or Co based	Annealed		250	33
			Cured		350	34
			Cast		320	35
	Titanium, Ti alloys			Rm 400		36
			Alpha+beta alloys cured	Rm 1050		37
H	Hardened steel		Hardened		55 HRC	38
			Hardened		60 HRC	39
	Chilled cast iron		Cast		400	40
	Cast iron nodular		Hardened		55 HRC	41

• For more information of material groups, see the materials & grades "material conversion table"

Steel | Stainless steel | Cast iron | Nonferrous | High temp. alloys | Hardened steel

Recommended Cutting Conditions

TDEEP

Machining data for TRGD / TRGDL / TBTA-TR

Feed (mm/rev) vs. drill diameter					
TRGD / TRGDL				TBTA-TR	
Cutting speed Vc (m/min)	Ø14.00-Ø15.99	Ø16.00-Ø28.00	Ø28.01-Ø40.00	Cutting speed Vc (m/min)	Ø16.00-Ø28.00
80-140	0.05-0.10	0.05-0.10	0.05-0.15	90-130	0.15-0.20
80-140	0.05-0.10	0.05-0.10	0.05-0.15	90-130	0.15-0.20
80-140	0.05-0.16	0.05-0.20	0.05-0.20	90-130	0.15-0.20
80-140	0.05-0.16	0.05-0.20	0.05-0.20	70-130	0.10-0.25
80-140	0.05-0.16	0.05-0.20	0.05-0.20	70-130	0.10-0.25
80-140	0.05-0.10	0.05-0.10	0.05-0.15	70-120	0.10-0.25
80-120	0.05-0.16	0.05-0.20	0.05-0.20	60-120	0.10-0.25
80-120	0.05-0.16	0.05-0.20	0.05-0.20	60-120	0.10-0.25
80-120	0.05-0.16	0.05-0.20	0.05-0.20	60-120	0.10-0.25
80-140	0.05-0.10	0.05-0.10	0.05-0.15	70-130	0.10-0.25
80-120	0.05-0.16	0.05-0.20	0.05-0.20	70-130	0.10-0.25
60-100	0.05-0.10	0.05-0.10	0.05-0.15	80-130	0.06-0.10
60-100	0.05-0.10	0.05-0.10	0.05-0.15	80-130	0.06-0.10
60-100	0.05-0.10	0.05-0.10	0.05-0.15	80-130	0.06-0.10
80-140	0.05-0.25	0.05-0.30	0.05-0.30	50-110	0.10-0.20
80-140	0.05-0.25	0.05-0.30	0.05-0.30	50-110	0.10-0.20
80-140	0.05-0.25	0.05-0.30	0.05-0.30	60-110	0.10-0.20
80-140	0.05-0.25	0.05-0.30	0.05-0.30	60-110	0.10-0.20
80-140	0.05-0.25	0.05-0.30	0.05-0.30	70-110	0.10-0.20
80-140	0.05-0.25	0.05-0.30	0.05-0.30	70-110	0.10-0.20
100-200	0.05-0.20	0.05-0.20	0.05-0.25	65-130	0.08-0.18
100-200	0.05-0.20	0.05-0.20	0.05-0.25	65-130	0.08-0.18
100-200	0.05-0.20	0.05-0.20	0.05-0.25	65-130	0.08-0.18
100-200	0.05-0.20	0.05-0.20	0.05-0.25	65-130	0.08-0.18
				65-130	0.08-0.18
				65-130	0.08-0.18
				65-130	0.08-0.18
				65-130	0.08-0.18
				65-130	0.08-0.18
				65-130	0.08-0.18
20-50	0.04-0.08	0.04-0.10	0.04-0.13	20-50	0.08-0.18
20-50	0.04-0.08	0.04-0.10	0.04-0.13	20-50	0.08-0.18
20-50	0.04-0.08	0.04-0.10	0.04-0.13	20-50	0.08-0.18
20-50	0.04-0.08	0.04-0.10	0.04-0.13	20-50	0.08-0.18
20-50	0.04-0.08	0.04-0.10	0.04-0.13	20-50	0.08-0.18
30-60	0.05-0.13	0.05-0.15	0.05-0.18	30-60	0.08-0.18
30-60	0.05-0.13	0.05-0.15	0.05-0.18	30-60	0.08-0.18
50-100	0.04-0.08	0.04-0.10	0.04-0.13		
50-100	0.04-0.08	0.04-0.10	0.04-0.13		
50-100	0.04-0.08	0.04-0.10	0.04-0.13		
50-100	0.04-0.08	0.04-0.10	0.04-0.13		

Recommended Cutting Conditions

HDRILL

Machining data for CDF

Material	Tensile strength (N/mm^2)	Hardness HB	Cutting speed Vc (m/min)	Feed (mm/rev) vs. drill diameter			
				Ø3.0 - Ø6.0	Ø6.1- Ø8.0	Ø8.1- Ø10.0	Ø10.1- Ø12.7
CFRP	420	125	50-150	0.02-0.07	0.03-0.08	0.03-0.08	0.04-0.10
GFRP	650	190	40-120	0.02-0.07	0.03-0.08	0.03-0.08	0.04-0.10

Reaming Tools

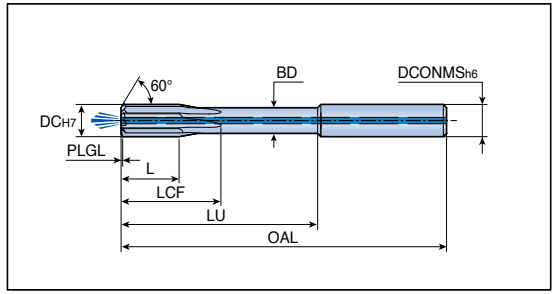


TS-S...-NS

TSREAM

Solid reamers for blind hole





• Straight flute - DIN1420



Designation	Dimension (mm)								NOF	Grade
	DC	L	PLGL	LCF	BD	LU	OAL	DCONMS		TT5040
TS- S0300-NS ✳	3.0	12	0.25	21	2.4	31	60	4.0	4	●
S0400-NS	4.0	12	0.3	17	3.4	40	68	6.0	4	●
S0500-NS	5.0	12	0.3	17	3.8	40	76	6.0	4	●
S0600-NS	6.0	12	0.3	17	4.5	40	76	6.0	4	●
S0700-NS	7.0	15	0.4	20	5.6	65	101	8.0	6	●
S0800-NS	8.0	15	0.4	20	6.4	65	101	8.0	6	●
S0900-NS	9.0	18	0.4	23	7.2	61	101	10.0	6	●
S1000-NS	10.0	18	0.5	23	8.0	61	101	10.0	6	●
S1050-NS	10.5	18	0.5	23	8.4	85	130	12.0	6	●
S1100-NS	11.0	18	0.5	23	8.8	85	130	12.0	6	●
S1150-NS	11.5	18	0.5	23	9.2	85	130	12.0	6	●
S1200-NS	12.0	18	0.5	23	9.6	85	130	12.0	6	●

Cutting Condition D236

- Special diameters are available on request
- NOF: Number of flutes
- ✳: Ø3 reamer does not include a coolant hole

●: Standard items

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TS-L...-NS

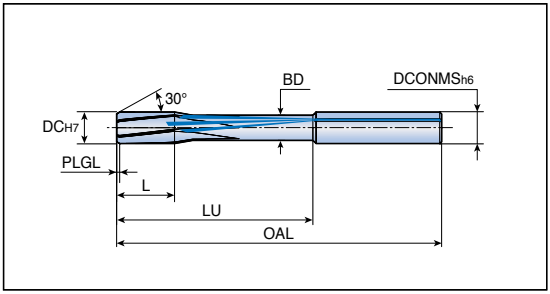
TSREAM

Solid reamers for through hole



• Left flute - DIN1420





Designation	Dimension (mm)							NOF	Grade
	DC	L	PLGL	BD	LU	OAL	DCONMS		TT5040
TS-L0300-NS ✳	3.0	12	0.7	2.2	31	60	4.0	4	●
L0400-NS	4.0	12	0.7	3.0	40	68	6.0	4	●
L0500-NS	5.0	12	0.9	3.8	40	76	6.0	4	●
L0600-NS	6.0	12	0.9	4.5	40	76	6.0	4	●
L0700-NS	7.0	15	0.9	5.6	65	101	8.0	6	●
L0800-NS	8.0	15	0.9	6.4	65	101	8.0	6	●
L0900-NS	9.0	18	0.95	7.2	61	101	10.0	6	●
L1000-NS	10.0	18	0.95	8.0	61	101	10.0	6	●
L1050-NS	10.5	18	1.05	8.4	85	130	12.0	6	●
L1100-NS	11.0	18	1.05	8.8	85	130	12.0	6	●
L1150-NS	11.5	18	1.05	9.2	85	130	12.0	6	●
L1200-NS	12.0	18	1.05	9.6	85	130	12.0	6	●

Cutting Condition D236

- Special diameters are available on request
- NOF: Number of flutes
- ✳ : Ø3 reamer does not include a coolant hole

●: Standard items

TaeguTec

TM...-T0

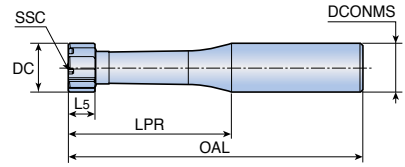
TMREAM

Head changeable reamer holders



• Cylindrical shank





Designation	DC	SSC	Dimension (mm)				Overhang
			DCONMS	L5	OAL	LPR	
TM- **3B5-16T0**	11.501-13.500	B5	16	9.3	97.8	49.8	
3B6-16T0	13.501-16.000	B6	16	9.4	105.4	57.4	
3B7-20T0	16.000-20.000	B7	20	10.6	120.6	70.6	3XD
3B8-20T0	20.001-25.400	B8	20	12.8	137.8	87.8	
3B9-32T0	25.401-32.000	B9	32	12.8	167.1	107.1	
5B5-16T0	11.501-13.500	B5	16	9.3	125.0	77.0	
5B6-16T0	13.501-16.000	B6	16	9.4	137.4	89.4	
5B7-20T0	16.000-20.000	B7	20	10.6	160.6	110.6	5XD
5B8-20T0	20.001-25.400	B8	20	12.8	187.8	137.8	
5B9-32T0	25.401-32.000	B9	32	12.8	231.1	171.1	
8B5-16T0	11.501-13.500	B5	16	9.3	165.5	117.5	
8B6-16T0	13.501-16.000	B6	16	9.4	185.4	137.4	
8B7-20T0	16.000-20.000	B7	20	10.6	220.6	170.6	8XD
8B8-20T0	20.001-25.400	B8	20	12.8	262.8	212.8	
8B9-32T0	25.401-32.000	B9	32	12.8	327.1	267.1	

D233 Cutting Condition D238

• Clamping key & clamping screw are included
• SSC: Seat size code

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TM...KEY

TMREAM

Clamping keys



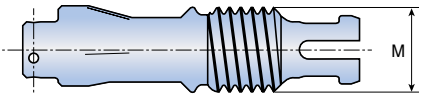
Designation	Clamping key	
	Head diameter range (mm)	SSC
TM - B5-KEY	11.501-13.500	B5
B6-KEY	13.501-16.000	B6
B7-KEY	16.001-20.000	B7
B8-KEY	20.001-25.400	B8
B9-KEY	25.401-32.000	B9

• SSC: Seat size code

TM...SCR

TMREAM

Clamping screws



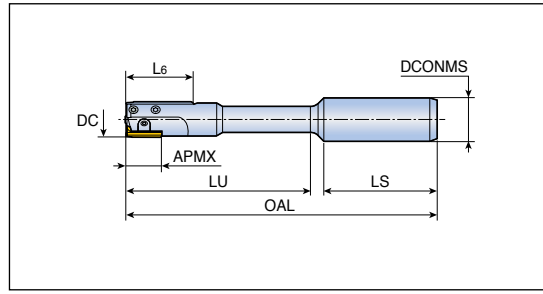
Designation	Clamping screw	
	Head diameter range (mm)	M
TM - B5-SCR	11.501-13.500	M5
B6-SCR	13.501-16.000	M6
B7-SCR	16.001-20.000	M7
B8-SCR	20.001-25.400	M8
B9-SCR	25.401-32.000	M9

Indexable reamer holders

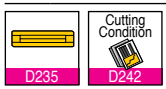


• For through hole





Designation	Dimension (mm)							SSC
	DC	APMX	OAL	LU	LS	L6	DCONMS	
TB-T08.000-S-16T0-1B	8	15.5	123.5	75	45	30	16	1
T09.000-S-16T0-1B	9	15.5	123.5	75	45	30	16	1
T10.000-S-16T0-2B	10	15.5	123.5	75	45	30	16	2
T11.000-S-16T0-2B	11	15.5	123.5	75	45	30	16	2
T12.000-S-16T0-3B	12	17.0	135	85	45	30	16	3
T13.000-S-16T0-3B	13	17.0	135	85	45	30	16	3
T14.000-S-16T0-3B	14	17.0	135	85	45	30	16	3
T15.000-S-16T0-3B	15	17.0	135	85	45	30	16	3
T16.000-S-20T0-3B	16	17.0	165	110	50	30	20	3
T17.000-S-20T0-3B	17	17.0	165	110	50	30	20	3
T18.000-S-20T0-3B	18	17.0	165	110	50	30	20	3
T19.000-S-20T0-3B	19	17.0	165	110	50	30	20	3
T20.000-S-25T0-3B	20	17.0	171	110	56	30	25	3
T21.000-S-25T0-3B	21	17.0	171	110	56	30	25	3
T22.000-S-25T0-3B	22	17.0	191	130	56	30	25	3
T23.000-S-25T0-3B	23	17.0	191	130	56	30	25	3
T24.000-S-25T0-3B	24	17.0	191	130	56	30	25	3
T25.000-S-25T0-3B	25	17.0	191	130	56	30	25	3
T26.000-S-25T0-4B	26	22.5	221	160	56	30	25	4
T27.000-S-25T0-4B	27	22.5	221	160	56	30	25	4
T28.000-S-25T0-4B	28	22.5	221	160	56	30	25	4
T29.000-S-25T0-4B	29	22.5	221	160	56	30	25	4
T30.000-S-25T0-4B	30	22.5	221	160	56	30	25	4
T31.000-S-25T0-4B	31	22.5	221	160	56	30	25	4
T32.000-S-25T0-4B	32	22.5	221	160	56	30	25	4



• SSC: Seat size code

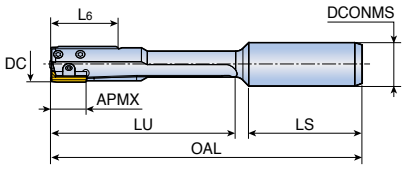
• Available upon request

TB-B...-T0

TBREAM

Indexable reamer holders





• For blind hole



Designation	Dimension (mm)							SSC
	DC	APMX	OAL	LU	LS	L6	DCONMS	
TB- B08.000-S-16T0-1B	8	15.5	123.5	75	45	30	16	1
B09.000-S-16T0-1B	9	15.5	123.5	75	45	30	16	1
B10.000-S-16T0-2B	10	15.5	123.5	75	45	30	16	2
B11.000-S-16T0-2B	11	15.5	123.5	75	45	30	16	2
B12.000-S-16T0-3B	12	17.0	135	85	45	30	16	3
B13.000-S-16T0-3B	13	17.0	135	85	45	30	16	3
B14.000-S-16T0-3B	14	17.0	135	85	45	30	16	3
B15.000-S-16T0-3B	15	17.0	135	85	45	30	16	3
B16.000-S-20T0-3B	16	17.0	165	110	50	30	20	3
B17.000-S-20T0-3B	17	17.0	165	110	50	30	20	3
B18.000-S-20T0-3B	18	17.0	165	110	50	30	20	3
B19.000-S-20T0-3B	19	17.0	165	110	50	30	20	3
B20.000-S-25T0-3B	20	17.0	171	110	56	30	25	3
B21.000-S-25T0-3B	21	17.0	171	110	56	30	25	3
B22.000-S-25T0-3B	22	17.0	191	130	56	30	25	3
B23.000-S-25T0-3B	23	17.0	191	130	56	30	25	3
B24.000-S-25T0-3B	24	17.0	191	130	56	30	25	3
B25.000-S-25T0-3B	25	17.0	191	130	56	30	25	3
B26.000-S-25T0-4B	26	22.5	221	160	56	30	25	4
B27.000-S-25T0-4B	27	22.5	221	160	56	30	25	4
B28.000-S-25T0-4B	28	22.5	221	160	56	30	25	4
B29.000-S-25T0-4B	29	22.5	221	160	56	30	25	4
B30.000-S-25T0-4B	30	22.5	221	160	56	30	25	4
B31.000-S-25T0-4B	31	22.5	221	160	56	30	25	4
B32.000-S-25T0-4B	32	22.5	221	160	56	30	25	4



• SSC: Seat size code

• Available upon request

TaeguTec

Indexable reamer holders

Spare parts

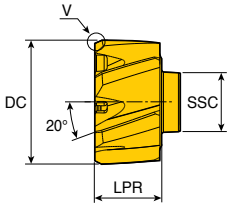
DC (mm)	Clamping wedge	Clamping screw	Adjustment screw	Adjustment pin	SSC
					
8	WDG-TB-1	SR-CL-TB-1	SR-ADJ-M3x2.5	PIN-ADJ-TB-1	1
9	WDG-TB-1	SR-CL-TB-1	SR-ADJ-M3x3	PIN-ADJ-TB-1	1
10	WDG-TB-1	SR-CL-TB-2	SR-ADJ-M3x3	PIN-ADJ-TB-2	2
11	WDG-TB-1	SR-CL-TB-2	SR-ADJ-M3x4	PIN-ADJ-TB-2	2
12	WDG-TB-3	SR-CL-TB-3	SR-ADJ-M4x4	PIN-ADJ-TB-3	3
13	WDG-TB-3	SR-CL-TB-3	SR-ADJ-M4x4	PIN-ADJ-TB-3	3
14	WDG-TB-3	SR-CL-TB-3	SR-ADJ-M4x4	PIN-ADJ-TB-3	3
15	WDG-TB-3	SR-CL-TB-3	SR-ADJ-M4x6	PIN-ADJ-TB-3	3
16	WDG-TB-3	SR-CL-TB-3	SR-ADJ-M4x6	PIN-ADJ-TB-3	3
17	WDG-TB-3	SR-CL-TB-3	SR-ADJ-M4x8	PIN-ADJ-TB-3	3
18	WDG-TB-3	SR-CL-TB-3	SR-ADJ-M4x8	PIN-ADJ-TB-3	3
19	WDG-TB-3	SR-CL-TB-3	SR-ADJ-M4x8	PIN-ADJ-TB-3	3
20	WDG-TB-3	SR-CL-TB-3	SR-ADJ-M4x10	PIN-ADJ-TB-3	3
21	WDG-TB-3	SR-CL-TB-3	SR-ADJ-M4x10	PIN-ADJ-TB-3	3
22	WDG-TB-3	SR-CL-TB-3	SR-ADJ-M4x10	PIN-ADJ-TB-3	3
23	WDG-TB-3	SR-CL-TB-3	SR-ADJ-M4x10	PIN-ADJ-TB-3	3
24	WDG-TB-3	SR-CL-TB-3	SR-ADJ-M4x10	PIN-ADJ-TB-3	3
25	WDG-TB-3	SR-CL-TB-3	SR-ADJ-M4x10	PIN-ADJ-TB-3	3
26	WDG-TB-4	SR-CL-TB-4	SR-ADJ-M4x10	PIN-ADJ-TB-4	4
27	WDG-TB-4	SR-CL-TB-4	SR-ADJ-M4x10	PIN-ADJ-TB-4	4
28	WDG-TB-4	SR-CL-TB-4	SR-ADJ-M4x10	PIN-ADJ-TB-4	4
29	WDG-TB-4	SR-CL-TB-4	SR-ADJ-M4x10	PIN-ADJ-TB-4	4
30	WDG-TB-4	SR-CL-TB-4	SR-ADJ-M4x10	PIN-ADJ-TB-4	4
31	WDG-TB-4	SR-CL-TB-4	SR-ADJ-M4x10	PIN-ADJ-TB-4	4
32	WDG-TB-4	SR-CL-TB-4	SR-ADJ-M4x10	PIN-ADJ-TB-4	4

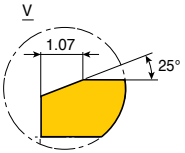
• SSC: Seat size code

TM...-BL

TMREAM

Head changeable reamer heads





- Left-handed flute for through hole
- For H7 hole tolerance

Head	Designation	Dimension (mm)		NOF	SSC	Flute type	Edge type	Grade
		DC	LPR					TT9030
	TM - 11.501-BL-B5	11.501	9.5	6	B5	L	B	●
	12.000-BL-B5	12.000	9.5	6	B5	L	B	●
	13.000-BL-B5	13.000	9.5	6	B5	L	B	●
	13.500-BL-B5	13.500	9.5	6	B5	L	B	●
	13.501-BL-B6	13.501	9.5	6	B6	L	B	●
	14.000-BL-B6	14.000	9.5	6	B6	L	B	●
	15.000-BL-B6	15.000	9.5	6	B6	L	B	●
	16.000-BL-B6	16.000	9.5	6	B6	L	B	●
	16.001-BL-B7	16.001	10.7	6	B7	L	B	●
	17.000-BL-B7	17.000	10.7	6	B7	L	B	●
	18.000-BL-B7	18.000	10.7	6	B7	L	B	●
	19.000-BL-B7	19.000	10.7	6	B7	L	B	●
	20.000-BL-B7	20.000	10.7	6	B7	L	B	●
	20.001-BL-B8	20.001	12.9	8	B8	L	B	●
	21.000-BL-B8	21.000	12.9	8	B8	L	B	●
	22.000-BL-B8	22.000	12.9	8	B8	L	B	●
	23.000-BL-B8	23.000	12.9	8	B8	L	B	●
	24.000-BL-B8	24.000	12.9	8	B8	L	B	●
	25.000-BL-B8	25.000	12.9	8	B8	L	B	●
	26.000-BL-B9	26.000	12.9	8	B9	L	B	●
	27.000-BL-B9	27.000	12.9	8	B9	L	B	●
	28.000-BL-B9	28.000	12.9	8	B9	L	B	●
	29.000-BL-B9	29.000	12.9	8	B9	L	B	●
	30.000-BL-B9	30.000	12.9	8	B9	L	B	●
	31.000-BL-B9	31.000	12.9	8	B9	L	B	●
	32.000-BL-B9	32.000	12.9	8	B9	L	B	●

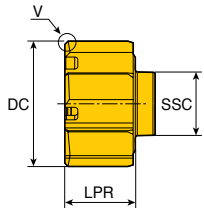


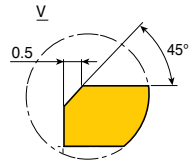
- NOF: Number of flutes
- SSC: Seat size code

●: Standard items

TaeguTec

Head changeable reamer heads





- Straight flute for blind hole
- For H7 hole tolerance

Head	Designation	Dimension (mm)		NOF	SSC	Flute type	Edge type	Grade
		DC	LPR					TT9030
	TM- 11.501-AS-B5	11.501	9.5	6	B5	S	A	●
	12.000-AS-B5	12.000	9.5	6	B5	S	A	●
	13.000-AS-B5	13.000	9.5	6	B5	S	A	●
	13.500-AS-B5	13.500	9.5	6	B5	S	A	●
	13.501-AS-B6	13.501	9.5	6	B6	S	A	●
	14.000-AS-B6	14.000	9.5	6	B6	S	A	●
	15.000-AS-B6	15.000	9.5	6	B6	S	A	●
	16.000-AS-B6	16.000	9.5	6	B6	S	A	●
	16.001-AS-B7	16.001	10.7	6	B7	S	A	●
	17.000-AS-B7	17.000	10.7	6	B7	S	A	●
	18.000-AS-B7	18.000	10.7	6	B7	S	A	●
	19.000-AS-B7	19.000	10.7	6	B7	S	A	●
	20.000-AS-B7	20.000	10.7	6	B7	S	A	●
	20.001-AS-B8	20.001	12.9	8	B8	S	A	●
	21.000-AS-B8	21.000	12.9	8	B8	S	A	●
	22.000-AS-B8	22.000	12.9	8	B8	S	A	●
	23.000-AS-B8	23.000	12.9	8	B8	S	A	●
	24.000-AS-B8	24.000	12.9	8	B8	S	A	●
	25.000-AS-B8	25.000	12.9	8	B8	S	A	●
	26.000-AS-B9	26.000	12.9	8	B9	S	A	●
	27.000-AS-B9	27.000	12.9	8	B9	S	A	●
	28.000-AS-B9	28.000	12.9	8	B9	S	A	●
	29.000-AS-B9	29.000	12.9	8	B9	S	A	●
	30.000-AS-B9	30.000	12.9	8	B9	S	A	●
	31.000-AS-B9	31.000	12.9	8	B9	S	A	●
	32.000-AS-B9	32.000	12.9	8	B9	S	A	●



- NOF: Number of flutes
- SSC: Seat size code

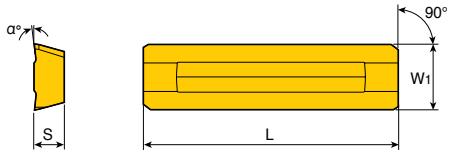
●: Standard items

ADVANCE MACHINING
TaeguTec Industry 4.0

TB Blade

TBREAM

Indexable blades



• For H6 hole tolerance

Insert	Designation	Dimension (mm)				SSC	Lead type	Grades	
		Rake angle (α°)	L	W_1	S			TT5030	TT5050
	TB- 1B06	6	15.5	2.8	1.5	1	B	●	
	1B12	12	15.5	2.8	1.5	1	B	●	
	1A06	6	15.5	2.8	1.5	1	A		●
	1B06	6	15.5	2.8	1.5	1	B		●
	2B06	6	15.5	3.6	1.5	2	B	●	
	2B12	12	15.5	3.6	1.5	2	B	●	
	2A06	6	15.5	3.6	1.5	2	A		●
	2B06	6	15.5	3.6	1.5	2	B		●
	3B06	6	17.0	4.4	2.0	3	B	●	
	3B12	12	17.0	4.4	2.0	3	B	●	
	3A06	6	17.0	4.4	2.0	3	A		●
	3B06	6	17.0	4.4	2.0	3	B		●
	4B06	6	22.5	6.6	3.0	4	B	●	
	4B12	12	22.5	6.6	3.0	4	B	●	
	4A06	6	22.5	6.6	3.0	4	A		●
	4B06	6	22.5	6.6	3.0	4	B		●

D230

• Grades application
-TT5030: TiAlN coating for steel(P) and stainless steel(M) -TT5050: TiCN + TiN coating for cast iron(K)
• SSC: Seat size code

●: Standard items

TaeguTec

Recommended Cutting Conditions

TSREAM

Machining data for TS-REAM

ISO	Material		Condition	Tensile strength (N/mm^2)	Hardness HB	Material No.	Cutting speed Vc (m/min)
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1	120-250
		>=0.25%C	Annealed	650	190	2	120-250
		<0.55%C	Quenched and tempered	850	250	3	120-250
		>=0.55%C	Annealed	750	220	4	
			Quenched and tempered	1000	300	5	
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	600	200	6	120-250
			Quenched and tempered	930	275	7	120-250
				1000	300	8	120-250
				1200	350	9	120-250
	High alloy steel, cast steel and tool steel		Annealed	680	200	10	120-250
			Quenched and tempered	1100	325	11	120-250
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12	60-120
			Martensitic	820	240	13	60-120
			Austenitic	600	180	14	60-120
K	Gray cast iron (GG)		Ferritic		160	15	60-120
			Pearlitic		250	16	60-120
	Cast iron nodular (GGG)		Ferritic		180	17	60-120
			Pearlitic		260	18	60-120
	Malleable cast iron		Ferritic		130	19	60-120
			Pearlitic		230	20	60-120
N	Aluminum - Wrought alloy		Not cureable		60	21	250-500
			Cured		100	22	250-500
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23	250-500
			Cured		90	24	250-500
		>12% Si	High temp.		130	25	
	Copper alloys	>1% Pb	Free cutting		110	26	
			Brass		90	27	
			Electrolitic copper		100	28	
	Non-metallic		Duroplastics, fiber plastics			29	
			Hard rubber			30	
S	High temp. alloys	Fe based	Annealed		200	31	
			Cured		280	32	
		Ni or Co based	Annealed		250	33	25-50
			Cured		350	34	25-50
			Cast		320	35	
	Titanium, Ti alloys			Rm 400		36	30-80
			Alpha+beta alloys cured	Rm 1050		37	30-80
H	Hardened steel		Hardened		55HRC	38	25-60
			Hardened		60HRC	39	
	Chilled cast iron		Cast		400	40	
	Cast iron nodular		Hardened		55HRC	41	

• For more information of material groups, see the materials & grades "material conversion table"

Steel Stainless steel Cast iron Nonferrous High temp. alloys Hardened steel

ADVANCE MACHINING
TaeguTec Industry 4.0

Feed (mm/rev) vs. reamer diameter			
Ø3.0 - Ø5.0	Ø6.0 - Ø7.0	Ø8.0 - Ø10.0	Ø10.5 - Ø12.0
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60

Recommended Cutting Conditions

TMREAM

Machining data for TM-REAM - Through hole

ISO	Material		Condition	Material No.	Through hole		Interrupted through Hole	
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	1	TT9030	BL	TT9030	BL
		>=0.25%C	Annealed	2	Vc = 80 - 200		Vc = 60 - 120	
		<0.55%C	Quenched and tempered	3	B4 - B6	fz = 0.08 - 0.21	B4 - B6	fz = 0.08 - 0.21
		>=0.55%C	Annealed	4				
			Quenched and tempered	5	B7 - B9	fz = 0.12 - 0.27	B7 - B9	fz = 0.09 - 0.21
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	6	TT9030	BL	TT9030	BL
			Quenched and tempered	7	Vc = 80 - 200		Vc = 60 - 120	
				8	B4 - B6	fz = 0.08 - 0.21	B4 - B6	fz = 0.08 - 0.21
				9	B7 - B9	fz = 0.12 - 0.27	B7 - B9	fz = 0.09 - 0.21
	High alloy steel, cast steel and tool steel		Annealed	10	TT9030	BL	TT9030	BL
					Vc = 20 - 60		Vc = 20 - 60	
			Quenched and tempered	11	B4 - B6	fz = 0.05 - 0.13	B4 - B6	fz = 0.04 - 0.11
					B7 - B9	fz = 0.07 - 0.17	B7 - B9	fz = 0.05 - 0.14
M	Stainless steel and cast steel		Ferritic / martensitic	12	TT9030	BL	TT9030	BL
					Vc = 20 - 40		Vc = 20 - 40	
			Martensitic	13	B4 - B6	fz = 0.05 - 0.13	B4 - B6	fz = 0.04 - 0.11
			Austenitic	14	B7 - B9	fz = 0.07 - 0.17	B7 - B9	fz = 0.05 - 0.14
K	Gray cast iron (GG)		Ferritic	15	TT9030	BL	TT9030	BL
					Vc = 120 - 220		Vc = 80 - 200	
			Pearlitic	16	B4 - B6	fz = 0.08 - 0.18	B4 - B6	fz = 0.05 - 0.13
					B7 - B9	fz = 0.10 - 0.24	B7 - B9	fz = 0.07 - 0.17
	Cast iron nodular (GGG)		Ferritic	17	TT9030	AS or BL	TT9030	BL
					Vc = 160 - 280		Vc = 150 - 250	
			Pearlitic	18	B4 - B6	fz = 0.11 - 0.20	B4 - B6	fz = 0.06 - 0.15
					B7 - B9	fz = 0.11 - 0.24	B7 - B9	fz = 0.08 - 0.19
	Malleable cast iron		Ferritic	19	TT9030	AS or BL	TT9030	BL
					Vc = 100 - 220		Vc = 100 - 220	
			Pearlitic	20	B4 - B6	fz = 0.11 - 0.20	B4 - B6	fz = 0.06 - 0.15
					B7 - B9	fz = 0.11 - 0.24	B7 - B9	fz = 0.08 - 0.20

• For more information of material groups, see the materials & grades "material conversion table"

Steel Stainless steel Cast iron Nonferrous High temp. alloys Hardened steel

Recommended Cutting Conditions

TMREAM

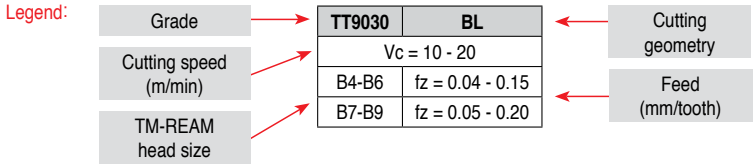
Machining data for TM-REAM - Through hole

ISO	Material		Condition	Material No.	Through hole		Interrupted through Hole	
N	Aluminum - Wrought alloy		Not cureable	21	B7 - B9	BL or GS	TTAL10	BL
			Cured	22	Vc = 150 - 400		Vc = 150 - 400	
	Aluminum-cast, alloyed	<=12% Si	Not cureable	23	B4 - B6	fz = 0.08 - 0.16	B4 - B6	fz = 0.08 - 0.16
			Cured	24				
		>12% Si	High temp.	25	B7 - B9	fz = 0.10 - 0.20	B7 - B9	fz = 0.10 - 0.20
	Copper alloys	>1% Pb	Free cutting	26	TT9030	BL	TT9030	BL
					Vc = 50 - 200		Vc = 50 - 200	
			Brass	27	B4 - B6	fz = 0.08 - 0.18	B4 - B6	fz = 0.05 - 0.13
			Electrolitic copper	28	B7 - B9	fz = 0.10 - 0.23	B7 - B9	fz = 0.07 - 0.16
	Non-metallic		Duroplastics, fiber plastics	29	TT9030	AS	TT9030	AS
					Vc = 25 - 80		Vc = 25 - 80	
			Hard rubber	30	B4 - B6	fz = 0.05 - 0.10	B4 - B6	fz = 0.05 - 0.10
					B7 - B9	fz = 0.10 - 0.20	B7 - B9	fz = 0.10 - 0.20
S	High temp. alloys	Fe based	Annealed	31	TT9030	L *	TT9030	L *
			Cured	32	Vc = 15 - 50		Vc = 15 - 50	
		Ni or Co based	Annealed	33				
			Cured	34	B4 - B6	fz = 0.04 - 0.10	B4 - B6	fz = 0.03 - 0.08
			Cast	35				
	Titanium, Ti alloys			36	B7 - B9	fz = 0.05 - 0.13	B4 - B6	fz = 0.04 - 0.11
			Alpha+beta alloys cured	37				
H	Hardened steel		Hardened	38	TT9030	BL	TT9030	BL
			Hardened	39	Vc = 25 - 50		Vc = 25 - 50	
	Chilled cast iron		Cast	40	B4 - B6	fz = 0.06 - 0.15	B4 - B6	fz = 0.06 - 0.15
	Cast iron nodular		Hardened	41	B7 - B9	fz = 0.10 - 0.20	B7 - B9	fz = 0.10 - 0.20

* Standard edge geometries are not suitable for reaming titanium and high temperature alloys.
In order to choose a proper geometry, please ask for our recommendations.

- The given cutting data recommendations refer to the short holders (3xD effective reaming overhang).
For longer holders, the cutting speed to be reduced proportionally.
- For relatively large leading angles (spot-facing geometries), the feed to be reduced up to 30%.
- All the given cutting data recommendations refer to the machines with spindle through coolant supply.

Legend:



Recommended Cutting Conditions

TMREAM

Machining data for TM-REAM - Blind hole

ISO	Material		Condition	Material No.	Blind hole		Interrupted blind hole	
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	1	TT9030	AS	TT9030	AS
		>=0.25%C	Annealed	2	Vc = 60-160		Vc = 60 - 120	
		<0.55%C	Quenched and tempered	3	B4 - B6	fz = 0.06 - 0.18	B4 - B6	fz = 0.05 - 0.15
		>=0.55%C	Annealed	4				
			Quenched and tempered	5	B7 - B9	fz = 0.08 - 0.20	B7 - B9	fz = 0.07 - 0.16
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	6	TT9030	AS	TT9030	AS
			Quenched and tempered	7	Vc = 60-160		Vc = 60 - 120	
				8	B4 - B6	fz = 0.06 - 0.18	B4 - B6	fz = 0.05 - 0.15
				9	B7 - B9	fz = 0.08 - 0.20	B7 - B9	fz = 0.07 - 0.16
	High alloy steel, cast steel and tool steel		Annealed	10	TT9030	AS	TT9030	AS
					Vc = 20 - 60		Vc = 20 - 60	
			Quenched and tempered	11	B4 - B6	fz = 0.04 - 0.10	B4 - B6	fz = 0.03 - 0.08
					B7 - B9	fz = 0.05 - 0.13	B7 - B9	fz = 0.04 - 0.10
M	Stainless steel and cast steel		Ferritic / martensitic	12	TT9030	AS	TT9030	AS
					Vc = 20 - 40		Vc = 20 - 40	
			Martensitic	13	B4 - B6	fz = 0.04 - 0.10	B4 - B6	fz = 0.03 - 0.08
			Austenitic	14	B7 - B9	fz = 0.05 - 0.13	B7 - B9	fz = 0.05 - 0.10
K	Gray cast iron (GG)		Ferritic	15	TT9030	AS	TT9030	AS
					Vc = 80 - 200		Vc = 60 - 120	
			Pearlitic	16	B4 - B6	fz = 0.06 - 0.18	B4 - B6	fz = 0.05 - 0.13
					B7 - B9	fz = 0.08 - 0.23	B7 - B9	fz = 0.08 - 0.18
	Cast iron nodular (GGG)		Ferritic	17	TT9030	AS	TT9030	AS
					Vc = 160 - 280		Vc = 160 - 240	
			Pearlitic	18	B4 - B6	fz = 0.06 - 0.18	B4 - B6	fz = 0.06 - 0.16
					B7 - B9	fz = 0.08 - 0.23	B7 - B9	fz = 0.08 - 0.18
	Malleable cast iron		Ferritic	19	TT9030	AS	TT9030	AS
					Vc = 100 - 220		Vc = 100 - 220	
			Pearlitic	20	B4 - B6	fz = 0.06 - 0.18	B4 - B6	fz = 0.05 - 0.15
					B7 - B9	fz = 0.08 - 0.23	B7 - B9	fz = 0.08 - 0.20

• For more information of material groups, see the materials & grades "material conversion table"

Steel Stainless steel Cast iron Nonferrous High temp. alloys Hardened steel

ADVANCE MACHINING
TaeguTec Industry 4.0

Recommended Cutting Conditions

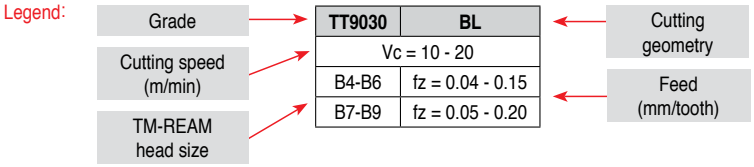
TMREAM

Machining data for TM-REAM - Blind hole

ISO	Material		Condition	Material No.	Blind hole		Interrupted blind hole	
N	Aluminum - Wrought alloy		Not cureable	21	TTAL10	GS or AS	TTAL10	GS or AS
			Cured	22	Vc = 150 - 400		Vc = 150 - 300	
	Aluminum-cast, alloyed	<=12% Si	Not cureable	23	B4 - B6	fz = 0.08 - 0.16	B4 - B6	fz = 0.07 - 0.15
			Cured	24				
		>12% Si	High temp.	25	B7 - B9	fz = 0.11 - 0.20	B7 - B9	fz = 0.11 - 0.20
	Copper alloys	>1% Pb	Free cutting	26	TT9030	AS	TT9030	AS
					Vc = 50 - 200		Vc = 50 - 200	
			Brass	27	B4 - B6	fz = 0.08 - 0.16	B4 - B6	fz = 0.08 - 0.16
			Electrolitic copper	28	B7 - B9	fz = 0.10 - 0.20	B7 - B9	fz = 0.10 - 0.20
	Non-metallic		Duroplastics, fiber plastics	29	TT9030	AS	TT9030	AS
					Vc = 25 - 80		Vc = 25 - 80	
			Hard rubber	30	B4 - B6	fz = 0.05 - 0.10	B4 - B6	fz = 0.05 - 0.10
					B7 - B9	fz = 0.10 - 0.20	B7 - B9	fz = 0.10 - 0.20
S	High temp. alloys	Fe based	Annealed	31	TT9030	L *	TT9030	L *
			Cured	32	Vc = 15 - 50		Vc = 15 - 50	
		Ni or Co based	Annealed	33				
			Cured	34	B4 - B6	fz = 0.03 - 0.08	B4 - B6	fz = 0.03 - 0.08
			Cast	35				
	Titanium, Ti alloys			36	B7 - B9	fz = 0.04 - 0.11	B7 - B9	fz = 0.04 - 0.11
			Alpha+beta alloys cured	37				
H	Hardened steel		Hardened	38	TT9030	AS	TT9030	AS
			Hardened	39	Vc = 25 - 50		Vc = 25 - 50	
	Chilled cast iron		Cast	40	B4 - B6	fz = 0.05 - 0.13	B4 - B6	fz = 0.05 - 0.13
	Cast iron nodular		Hardened	41	B7 - B9	fz = 0.10 - 0.20	B7 - B9	fz = 0.10 - 0.20

* Standard edge geometries are not suitable for reaming titanium and high temperature alloys.
In order to choose a proper geometry, please ask for our recommendations.

- The given cutting data recommendations refer to the short holders (3xD effective reaming overhang). For longer holders, the cutting speed to be reduced proportionally.
- For relatively large leading angles (spot-facing geometries), the feed to be reduced up to 30%.
- All the given cutting data recommendations refer to the machines with spindle through coolant supply.



Recommended Cutting Conditions

TBREAM

Machining data for TB-REAM

ISO	Material	Material No.	Lead A (15°/3°) (Reaming allowance: 0.1 ~ 0.3) Feed (mm/rev)	Rake (°)	Cutting speed Vc (m/min) Carbide	Coated carbide	Cermet	PCD	CBN
P	Non-alloy steel and cast steel, free cutting steel	1 - 5	0.1-0.4	6	40-60	60-80	110-160		
P	Low alloy steel and cast steel (Less than 5% of alloying elements)	6 - 9	0.1-0.4	6	20-40	40-60	110-160		
P	High alloyed steel, cast steel and tool steel	10 - 11	0.1-0.4	6	20-40	20-60	20-60		
M	Stainless steel, cast steel	12 - 14	0.1-0.3	12	20-40	40-60	20-60		
K	Grey cast iron (GG)	15 - 16	0.1-0.3	0 / 6	40-60	60-100			Please ask
K	Cast iron nodular (GGG)	17 - 18	0.1-0.3	0 / 6	40-60	60-100			
K	Malleable cast iron	19 - 20	0.1-0.3	0 / 6	40-60	60-100			
N	Aluminum wrought alloy	21 - 22						Please ask	
N	Aluminum-cast,alloyed	23 - 25							
N	Copper alloys	26 - 28							
N	Non-metallic	29 - 30							

ISO	Material	Material No.	Lead C (75°) (Reaming allowance: 0.2 ~ 0.4) Feed (mm/rev)	Rake (°)	Cutting speed Vc (m/min) Carbide	Coated carbide	Cermet	PCD	CBN
P	Non-alloy steel and cast steel, free cutting steel	1 - 5							
P	Low alloy steel and cast steel (Less than 5% of alloying elements)	6 - 9							
P	High alloyed steel, cast steel and tool steel	10 - 11							
M	Stainless steel, cast steel	12 - 14							
K	Grey cast iron (GG)	15 - 16							Please ask
K	Cast iron nodular (GGG)	17 - 18							
K	Malleable cast iron	19 - 20							
N	Aluminum wrought alloy	21 - 22	0.15-0.3	12	150-250			Please ask	
N	Aluminum-cast,alloyed	23 - 25	0.15-0.3	12	150-250				
N	Copper alloys	26 - 28							
N	Non-metallic	29 - 30							

- The cutting conditions in the table below should be used to start a new application. Optimal conditions for a specific application should be evaluated by examining the results and changing the machining conditions accordingly.

- For more information of material groups, see the materials & grades "material conversion table"

Steel Stainless steel Cast iron Nonferrous

Recommended Cutting Conditions

TBREAM

Machining data for TB-REAM

			Lead B (30°/3°) (Reaming allowance: 0.1 ~ 0.3)						
			Feed (mm/rev)	Rake (°)	Cutting speed Vc (m/min)				
ISO	Material	Material No.			Carbide	Coated carbide	Cermet	PCD	CBN
P	Non-alloy steel and cast steel, free cutting steel	1 - 5	0.1-0.4	6	60-80	80-120	110-160		
P	Low alloy steel and cast steel (Less than 5% of alloying elements)	6 - 9	0.1-0.4	6	60-80	80-120	110-160		
P	High alloyed steel, cast steel and tool steel	10 - 11	0.1-0.4	6	40-60	40-80	40-80		
M	Stainless steel, cast steel	12 - 14	0.1-0.3	12	40-60	60-80	60-80		
K	Grey cast iron (GG)	15 - 16	0.1-0.3	0 / 6	60-80	80-120			Please ask
K	Cast iron nodular (GGG)	17 - 18	0.1-0.3	0 / 6	60-80	80-120			
K	Malleable cast iron	19 - 20	0.1-0.3	0 / 6	60-80	80-120			
N	Aluminum wrought alloy	21 - 22		12	160-200			Please ask	
N	Aluminum-cast,alloyed	23 - 25		12	160-200				
N	Copper alloys	26 - 28		0	80-100				
N	Non-metallic	29 - 30		0	10-70				

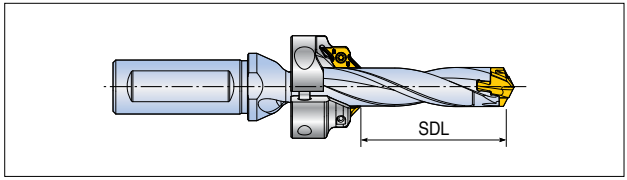
			Lead D (30°/3°) (Reaming allowance: 0.1 ~ 0.2)						
			Feed (mm/rev)	Rake (°)	Cutting speed Vc (m/min)				
ISO	Material	Material No.			Carbide	Coated carbide	Cermet	PCD	CBN
P	Non-alloy steel and cast steel, free cutting steel	1 - 5	0.1-0.4	6	60-80	80-120	110-160		
P	Low alloy steel and cast steel (Less than 5% of alloying elements)	6 - 9	0.1-0.4	6	60-80	80-120	110-160		
P	High alloyed steel, cast steel and tool steel	10 - 11	0.1-0.4	6	40-60	40-80	40-80		
M	Stainless steel, cast steel	12 - 14	0.1-0.3	12	40-60	60-80	60-80		
K	Grey cast iron (GG)	15 - 16	0.1-0.3	0 / 6	60-80	80-120			Please ask
K	Cast iron nodular (GGG)	17 - 18	0.1-0.3	0 / 6	60-80	80-120			
K	Malleable cast iron	19 - 20	0.1-0.3	0 / 6	60-80	80-120			
N	Aluminum wrought alloy	21 - 22		12	110-200			Please ask	
N	Aluminum-cast,alloyed	23 - 25		12	160-200				
N	Copper alloys	26 - 28		0	80-100				
N	Non-metallic	29 - 30							

- The cutting conditions in the table below should be used to start a new application. Optimal conditions for a specific application should be evaluated by examining the results and changing the machining conditions accordingly.

- For more information of material groups, see the materials & grades "material conversion table"

Steel Stainless steel Cast iron Nonferrous

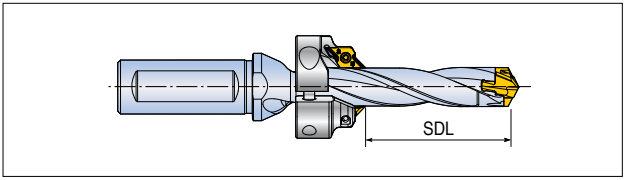
Chamfering ring designation - DRILL-RUSH



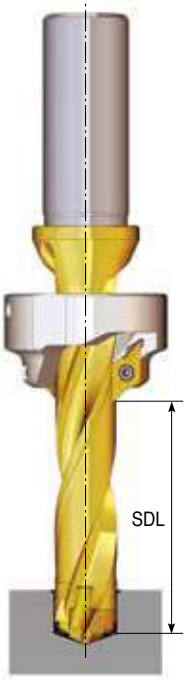
	Designation	CFR designation	SDL	
			min	max
3D	TCD 130-134-16T3/S0-3D	CFR D130-A45	19	19
	135-139-16T3/S0-3D	CFR D135-A45	19	20
	140-144-16T3/S0-3D	CFR D140-A45	21	22
	145-149-16T3/S0-3D	CFR D145-A45	22	23
	150-159-20T3/S0-3D	CFR D150-A45	23	23
	160-169-20T3/S0-3D	CFR D160-A45	24	25
	170-179-20T3/S0-3D	CFR D170-A45	26	28
	180-189-25T2/S0-3D	CFR D180-A45	27	30
	190-199-25T2/S0-3D	CFR D190-A45	29	33
	200-209-25T2/S0-3D	CFR D200-A45	30	36
	210-219-25T2/S0-3D	CFR D210-A45	32	39
	220-229-25T2/S0-3D	CFR D220-A45	33	42
	230-239-32T2/S0-3D	CFR D230-A45	35	45
	240-249-32T2/S0-3D	CFR D240-A45	36	48
	250-259-32T2/S0-3D	CFR D250-A45	38	51
5D	TCD 100-104-16T3/S0-5D	CFR D100-A45	28	28
	105-109-16T3/S0-5D	CFR D105-A45	29	30
	110-114-16T3/S0-5D	CFR D110-A45	31	33
	115-119-16T3/S0-5D	CFR D115-A45	32	35
	120-124-16T3/S0-5D	CFR D120-A45	33	45
	125-129-16T3/S0-5D	CFR D125-A45	34	40
	130-134-16T3/S0-5D	CFR D130-A45	36	43
	135-139-16T3/S0-5D	CFR D135-A45	37	43
	140-144-16T3/S0-5D	CFR D140-A45	38	48
	145-149-16T3/S0-5D	CFR D145-A45	39	48
	150-159-20T3/S0-5D	CFR D150-A45	41	53
	160-169-20T3/S0-5D	CFR D160-A45	43	58
	170-179-20T3/S0-5D	CFR D170-A45	46	63
	180-189-25T2/S0-5D	CFR D180-A45	48	68
	190-199-25T2/S0-5D	CFR D190-A45	51	73
	200-209-25T2/S0-5D	CFR D200-A45	53	78
	210-219-25T2/S0-5D	CFR D210-A45	56	79
	220-229-25T2/S0-5D	CFR D220-A45	58	84
	230-239-32T2/S0-5D	CFR D230-A45	61	89
	240-249-32T2/S0-5D	CFR D240-A45	63	94
	250-259-32T2/S0-5D	CFR D250-A45	66	99



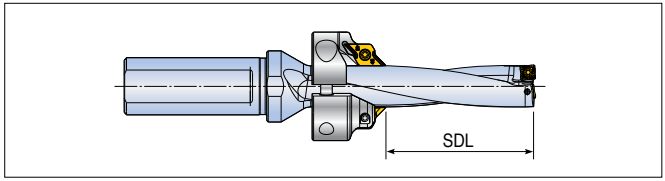
Chamfering ring designation - DRILL-RUSH



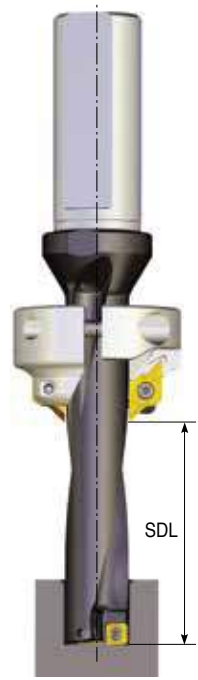
	Designation	CFR designation	SDL	
			min	max
8D	TCD 100-104-16T3/S0-8D	CFR D100-A45	45	58
	105-109-16T3/S0-8D	CFR D105-A45	49	62
	110-114-16T3/S0-8D	CFR D110-A45	49	66
	115-119-16T3/S0-8D	CFR D115-A45	53	70
	120-124-16T3/S0-8D	CFR D120-A45	53	74
	125-129-16T3/S0-8D	CFR D125-A45	57	78
	130-134-16T3/S0-8D	CFR D130-A45	57	82
	135-139-16T3/S0-8D	CFR D135-A45	61	84
	140-144-16T3/S0-8D	CFR D140-A45	61	88
	145-149-16T3/S0-8D	CFR D145-A45	65	92
	150-159-20T3/S0-8D	CFR D150-A45	65	96
	160-169-20T3/S0-8D	CFR D160-A45	69	103
	170-179-20T3/S0-8D	CFR D170-A45	73	111
	180-189-25T2/S0-8D	CFR D180-A45	77	118
	190-199-25T2/S0-8D	CFR D190-A45	81	126
	200-209-25T2/S0-8D	CFR D200-A45	85	134
	210-219-25T2/S0-8D	CFR D210-A45	89	142
	220-229-25T2/S0-8D	CFR D220-A45	93	150
	230-239-32T2/S0-8D	CFR D230-A45	97	158
	240-249-32T2/S0-8D	CFR D240-A45	101	166
	250-259-32T2/S0-8D	CFR D250-A45	105	174
12D	TCD 120-124-16S0-12D	CFR D120-A45	87	121
	125-129-16S0-12D	CFR D125-A45	90	127
	130-134-16S0-12D	CFR D130-A45	93	133
	135-139-16S0-12D	CFR D135-A45	96	137
	140-144-16S0-12D	CFR D140-A45	99	143
	145-149-16S0-12D	CFR D145-A45	102	149
	150-159-20S0-12D	CFR D150-A45	105	155
	160-169-20S0-12D	CFR D160-A45	111	166
	170-179-20S0-12D	CFR D170-A45	117	178
	180-189-25S0-12D	CFR D180-A45	123	189
	190-199-25S0-12D	CFR D190-A45	129	201
	200-209-25S0-12D	CFR D200-A45	135	213
	210-219-25S0-12D	CFR D210-A45	141	225
	220-229-25S0-12D	CFR D220-A45	147	237



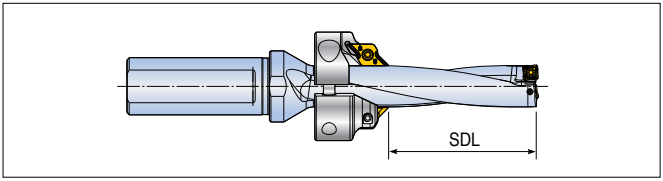
Chamfering ring designation - TOP-DRILL and T-DRILL



	TOP-DRILL	T-DRILL	CFR designation	SDL	
				min	max
3D	TOP -	TDR 3125-20T2-05	CFR D125-A45	16	16
	-	3130-20T2-05	CFR D130-A45	16	16
	-	3135-20T2-05	CFR D135-A45	17	18
	3140-20T2-05	3140-20T2-05	CFR D140-A45	17	18
	3145-20T2-05	3145-20T2-05	CFR D145-A45	18	19
	3150-20T2-05	3150-20T2-05	CFR D150-A45	18	19
	3155-20T2-05	3155-25T2-06	CFR D160-A45	19	21
	3160-20T2-05	3160-25T2-06	CFR D160-A45	19	21
	3165-25T2-06	3165-25T2-06	CFR D170-A45	21	24
	3170-25T2-06	3170-25T2-06	CFR D170-A45	22	24
	3175-25T2-06	3175-25T2-06	CFR D180-A45	23	27
	3180-25T2-06	3180-25T2-06	CFR D180-A45	23	26
	3185-25T2-06	3185-25T2-06	CFR D180-A45	24	29
	3190-25T2-06	3190-25T2-06	CFR D190-A45	25	29
	3195-25T2-07	3195-25T2-06	CFR D190-A45	25	32
	3200-25T2-07	3200-25T2-06	CFR D200-A45	26	32
	3205-25T2-07	3205-25T2-06	CFR D200-A45	27	35
	3210-25T2-07	3210-25T2-06	CFR D210-A45	27	35
	3215-25T2-07	3215-25T2-07	CFR D210-A45	28	38
	3220-25T2-07	3220-25T2-07	CFR D220-A45	29	38
	3225-25T2-08	3225-25T2-07	CFR D220-A45	29	41
	3230-25T2-08	3230-25T2-07	CFR D230-A45	30	41
	3235-25T2-08	3235-25T2-07	CFR D230-A45	31	44
	3240-25T2-08	3240-25T2-07	CFR D240-A45	31	44
	3245-25T2-08	3245-25T2-07	CFR D240-A45	32	47
	3250-25T2-08	3250-25T2-07	CFR D250-A45	33	47



Chamfering ring designation - TOP-DRILL and T-DRILL



	TOP-DRILL		T-DRILL		CFR designation	SDL	
						min	max
4D	TOP	-	TDR	4125-20T2-05	CFR D125-A45	25	26
		-		4130-20T2-05	CFR D130-A45	25	26
		-		4135-20T2-05	CFR D135-A45	27	30
		4140-20T2-05		4140-20T2-05	CFR D140-A45	28	30
		4145-20T2-05		4145-20T2-05	CFR D145-A45	29	34
		4150-20T2-05		4150-20T2-05	CFR D150-A45	30	34
		4155-20T2-05		4155-25T2-06	CFR D160-A45	31	37
		4160-20T2-05		4160-25T2-06	CFR D160-A45	32	37
		4165-25T2-06		4165-25T2-06	CFR D170-A45	33	41
		4170-25T2-06		4170-25T2-06	CFR D170-A45	34	41
		4175-25T2-06		4175-25T2-06	CFR D180-A45	35	45
		4180-25T2-06		4180-25T2-06	CFR D180-A45	36	44
		4185-25T2-06		4185-25T2-06	CFR D180-A45	37	48
		4190-25T2-06		4190-25T2-06	CFR D190-A45	38	48
		4195-25T2-07		4195-25T2-06	CFR D190-A45	39	52
		4200-25T2-07		4200-25T2-06	CFR D200-A45	40	52
		4205-25T2-07		4205-25T2-06	CFR D200-A45	41	56
		4210-25T2-07		4210-25T2-06	CFR D210-A45	42	56
		4215-25T2-07		4215-25T2-07	CFR D210-A45	43	60
		4220-25T2-07		4220-25T2-07	CFR D220-A45	44	60
		4225-25T2-08		4225-25T2-07	CFR D220-A45	45	64
		4230-25T2-08		4230-25T2-07	CFR D230-A45	46	64
		4235-25T2-08		4235-25T2-07	CFR D230-A45	47	68
		4240-25T2-08		4240-25T2-07	CFR D240-A45	48	68
		4245-25T2-08		4245-25T2-07	CFR D240-A45	49	72
		4250-25T2-08		4250-25T2-07	CFR D250-A45	50	72

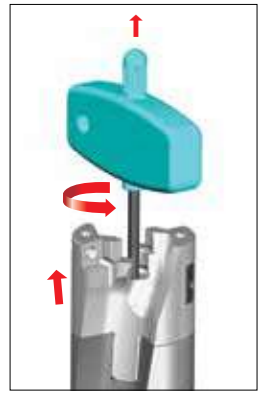


Modular head replacement instructions

1. Remove both outer inserts, then remove the center drill head.
   (When clamping, go in the reverse order)



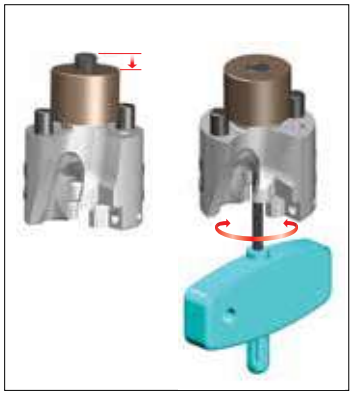
2. Use a wrench to turn the screw counter-clock-wise to remove the modular head.



3. Insert the setting gauge into the bottom of the disconnected modular head.



4. Rotate the screw to adjust to the same height with the setting gauge.

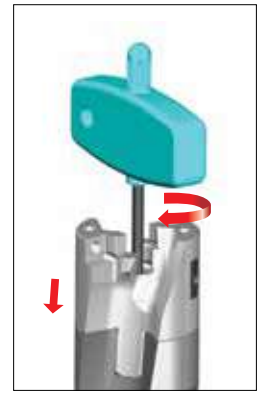




Setting gauge

Drill dia.	Designation
D26-D29	SG TNDH D26-29-TP
D30-D35	SG TNDH D30-35-TP
D36-D39	SG TNDH D36-39-TP
D40-D43	SG TNDH D40-43-TP
D44-D50	SG TNDH D44-50-TP

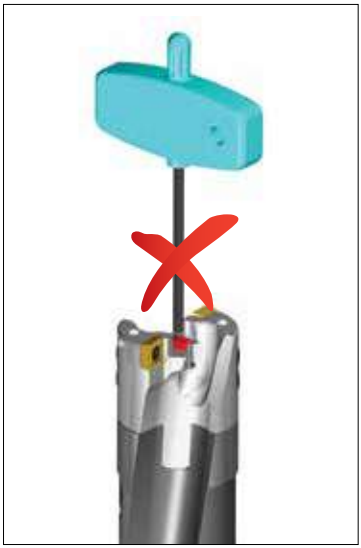
5. Remove the height adjusted modular head from the setting gauge and attach it to the holder.



Modular head disassembly in the event of center drill damage

If the modular head cannot be unclamped due to center drill damage, insert the wrench into the rear section of the shank. Then, turn it clock-wise to disassemble the modular head.





Damaged center drill



• Disassembling wrench and handle are included with the modular drill holder. (MDB Dxx/xx…)

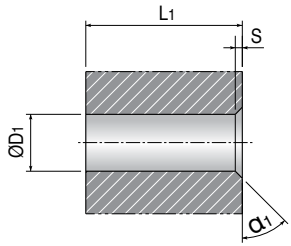
Hole tolerance

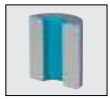
Diameter D(mm)		Tolerance (μm)															
>D	≤D	B10	C9	C10	D8	D9	D10	E7	E8	E9	F6	F7	F8	G6	G7	H6	H7
–	3	+180 +140	+85 +60	+100 +60	+34 +20	+45 +20	+60 +20	+24 +14	+28 +14	+39 +14	+12 +6	+16 +6	+20 +6	+8 +2	+12 +2	+6 0	+10 0
3	6	+180 +140	+100 +70	+118 +70	+48 +30	+60 +30	+78 +30	+32 +20	+38 +20	+50 +20	+18 +10	+22 +10	+28 +10	+12 +4	+16 +4	+8 0	+12 0
6	10	+208 +150	+116 +80	+138 +80	+62 +40	+76 +40	+98 +40	+40 +25	+47 +25	+61 +25	+22 +13	+28 +13	+35 +13	+14 +5	+20 +5	+9 0	+15 0
10	14	+220 +150	+138 +95	+165 +95	+77 +50	+93 +50	+120 +50	+50 +32	+59 +32	+75 +32	+27 +16	+34 +16	+43 +16	+17 +6	+24 +6	+11 0	+18 0
14	18																
18	24	+244 +160	+162 +110	+194 +110	+98 +65	+117 +65	+149 +65	+61 +40	+73 +40	+92 +40	+33 +20	+41 +20	+53 +20	+20 +7	+28 +7	+13 0	+21 0
24	30																
30	40	+270 +170	+182 +120	+220 +120	+119 +80	+142 +80	+180 +80	+75 +50	+89 +50	+112 +50	+41 +25	+50 +25	+64 +25	+25 +9	+34 +9	+16 0	+25 0
40	50	+280 +180	+192 +130	+230 +130													
50	65	+310 +190	+214 +140	+260 +140	+146 +100	+174 +100	+220 +146	+90 +60	+106 +60	+134 +60	+49 +30	+60 +30	+76 +30	+29 +10	+40 +10	+19 0	+30 0
65	80	+320 +200	+224 +150	+270 +150													

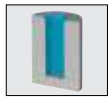
Hole tolerance

Tolerance (μm)																
H8	H9	H10	JS6	JS7	K6	K7	M6	M7	N6	N7	P6	P7	R7	S7	T7	U7	X7
+14 0	+25 0	+40 0	±3	±5	0 -6	0 -10	-2 -8	-2 -12	-4 -10	-4 -14	-6 -12	-6 -16	-10 -20	-14 -24	–	-18 -28	-20 -30
+18 0	+30 0	+48 0	±4	±6	+2 -6	+3 -9	-1 -9	0 -12	-5 -13	-4 -16	-9 -17	-8 -20	-11 -23	-15 -27	–	-19 -31	-24 -36
+22 0	+36 0	+58 0	±4.5	±7.5	+2 -7	+5 -10	-3 -12	0 -15	-7 -16	-4 -19	-12 -21	-9 -24	-13 -28	-17 -32	–	-22 -37	-28 -43
+27 0	+43 0	+70 0	±5.5	±9	+2 -9	+6 -12	-4 -15	0 -18	-9 -20	-5 -23	-15 -26	-11 -29	-16 -34	-21 -39	–	-26 -44	-33 -51 -38 -56
+33 0	+52 0	+84 0	±6.5	±10.5	+2 -11	+6 -15	-4 -17	0 -21	-11 -24	-7 -28	-18 -31	-14 -35	-20 -41	-27 -48	– -33 -54	-33 -54 -40 -61	-46 -67 -56 -77
+39 0	+62 0	+100 0	±8	±12.5	+3 -13	+7 -18	-4 -20	0 -25	-12 -28	-8 -33	-21 -37	-17 -42	-25 -50	-34 -59	-39 -64 -45 -70	-51 -76 -61 -86	–
+46 0	+74 0	+120 0	±9.5	±15	+4 -15	+9 -21	-5 -24	0 -30	-14 -33	-9 -39	-26 -45	-21 -51	-30 -60 -32 -62	-42 -72 -48 -78	-55 -85 -64 -94	-76 -106 -91 -121	–

Specific dimensions





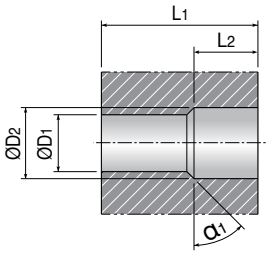


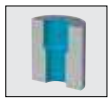
Through ☐ Blind ☐

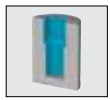
ØD1 _____ L1 _____

α1 _____ S _____

•Hole tolerance _____







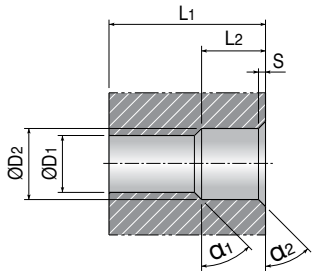
Through ☐ Blind ☐

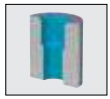
ØD1 _____ ØD2 _____

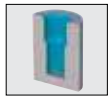
L1 _____ L2 _____

α1 _____

•Hole tolerance _____







Through ☐ Blind ☐

ØD1 _____ ØD2 _____

L1 _____ L2 _____

α1 _____ α2 _____

S _____

•Hole tolerance _____

Comment

Drill type

•TOPDRILL _____ ☐

•T-DRILL _____ ☐

Technical data

•Machine type

MCT ☐ Lathe ☐

Vertical ☐ Horizontal ☐

Machine name _____

Power _____ kW

•Coolant supply

Internal ☐ External ☐

Coolant pressure _____ bar

Coolant type _____

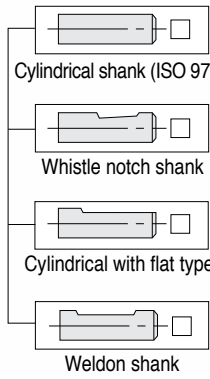
Workpiece

•Part _____

•Material _____

•Hardness _____

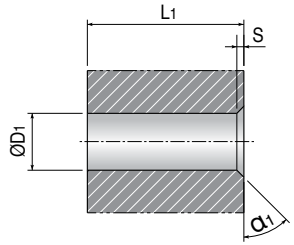
Shank type

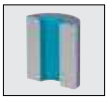
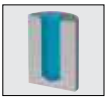


Tailor-made Order Form

DRILLRUSH

Specific dimensions



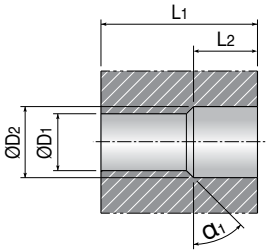



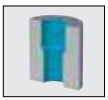
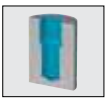
Through ☐ Blind ☐

ØD1 _____ L1 _____

α1 _____ S _____

•Hole tolerance _____



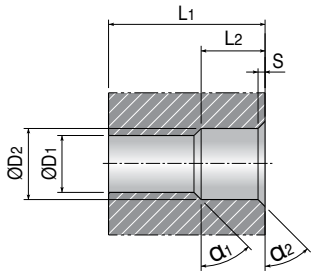
Through ☐ Blind ☐

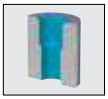
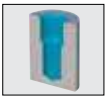
ØD1 _____ ØD2 _____

L1 _____ L2 _____

α1 _____

•Hole tolerance _____



Through ☐ Blind ☐

ØD1 _____ ØD2 _____

L1 _____ L2 _____

α1 _____ α2 _____

S _____

•Hole tolerance _____

Comment

Technical data

•Machine type

MCT ☐ Lathe ☐

Vertical ☐ Horizontal ☐

Machine name _____

Power _____ kW

•Coolant supply

Internal ☐ External ☐

Coolant pressure _____ bar

Coolant type _____

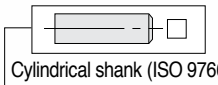
Workpiece

•Part _____

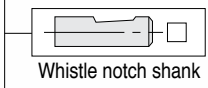
•Material _____

•Hardness _____

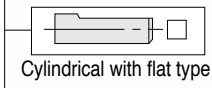
Shank type



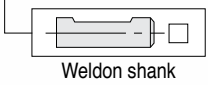
Cylindrical shank (ISO 9766)



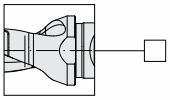
Whistle notch shank

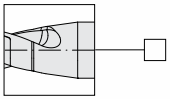


Cylindrical with flat type



Weldon shank

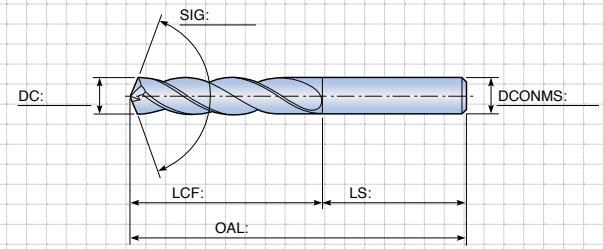


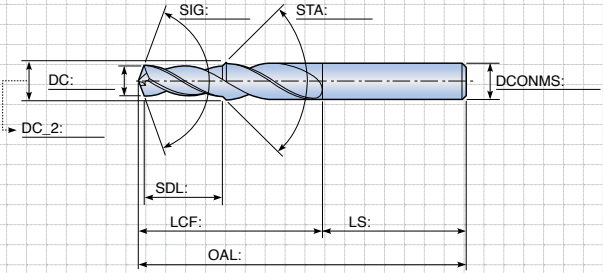


•Shank dia: _____

•Shank length: _____

Specific dimensions





• DC, DC_2 would be hole dimensions and please note hole tolerance if possible

Technical data

- Machine type
  - MCT ☐ Lathe ☐
  - Vertical ☐ Horizontal ☐
  - Machine name _____
  - Power _____ kW
- Coolant supply
  - Internal ☐ External ☐
  - Coolant pressure _____ bar
  - Coolant type _____

Workpiece

- Part _____
- Material _____
- Hardness _____

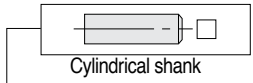
Hole type

- Blind hole _____ ☐
- Through hole _____ ☐

Coating

- TiAlN _____ ☐
- Non-coated _____ ☐

Shank type


Cylindrical shank


Whistle notch shank


Cylindrical with flat type


Weldon shank

Comment

Deep hole drilling order form

★: Mandatory data field

Campany name :	Inquiry number :
Address :	Inquiry date :
Contact person :	Customer No :

Workpiece (If possible,please attach a drawing)			
Product name			
Hole diameter (ø)	(mm)		
Hole depth (drilling length)	(mm)		
No. of holes			
Tolerance (of hole)			
Surface finish (Rz,Ra...)			
Deviation (mm/100)			
Straightness (mm/100)			
Material			
Material (DIN,AISI,JIS...)			
Hardness (HB,HS,HRC...)			
Condition ★	☐ Annealed	☐ Quenched	☐ Tempered
	☐ Cast	☐	
	☐ Other	☐	

Machine			
Machine supplier name			
Machine type/model			
Rigidity	☐ Good	☐ Normal	☐ Bad
Date of manufacture			
Retrofitted	☐ NC lathe	☐ M/C	☐ Other
Double rotation (TR/WR)	☐ Tool and workpiece		
Rotating workpiece (WR)	☐		
Rotating tool (TR)	☐		
Safety devices			
Motor power	(kW)		

Type of coolant			
Coolant supplier name			
Water based	☐ Soluble	☐ Emulsion	%
Oil based	☐		
Coolant pressure	(bar)		
Coolant volume	(L/min)		

Tailor-made Order Form

Deep hole drilling order form

★: Mandatory data field

Tool (Drill head)			
Drill diameter(ø)		(mm)	
Thread	☐ Inner	☐ Outer	
Brazed	☐		
Indexable	☐ Adjustable	☐ Direct mount	☐
Coating	☐ Coated	☐ Uncoated	
Coating type	☐ TiN	☐ TiAlN	☐ Other
• Solid drilling	☐		
• Counterboring	☐		
Cutting angle★ Brazed indexable	☐ 20°	☐ 45°	
	☐ Nomal angle	☐ Close angle	
Pre-bored size(per side)		(mm)	
Bottom finishing★	☐ Fullball R	☐ Flatbottom R	☐ Corner R
	☐ Compound R		
• Trepanning	☐		
Core size(ø)		(mm)	☐
Tube inner dia(ø)		(mm)	
Tube outer dia(ø)		(mm)	
Tube			
Outside dia(ø)		(mm)	
Total length(L)		(mm)	
Internal thread	☐		
External thread	☐ 4 Starts	☐ 2 Starts	☐ 1 Starts
Tube thread	☐ 1 end	☐ Both ends	
Inner tube length		(mm)	
Inner tube slit	☐ 1 end	☐ Both ends	

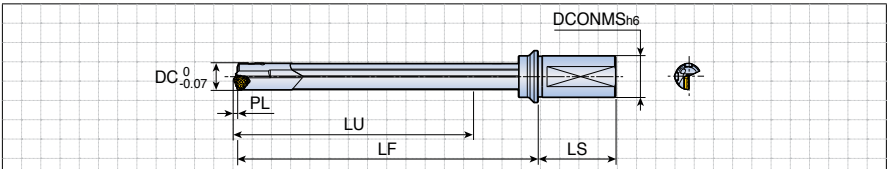
Drilling system		
Single tube system	☐	STS
Double tube system	☐	DTS

Boring conditions	
Through hole drilling	☐
Blind hole drilling	☐
Cross hole drilling★	☐

★ **Please sketch your drilling application**

General information	Production			
Quantity per year:				
Present performance status:				
grade, tool life, etc:				
Cutting data:	Vc=	m/min,	N=	rpm
	f=	mm/rev,	F=	mm/min

Deep hole drilling order form



Sketch of drilling application

• Note: It may be necessary to change several of the parameters that you indicated based on our experience with your application.

Tool	
Quantity	
Nominal diameter and tolerance	
- Please fill in dimensions on the sketch above.	
Driver	
Code No	

- For standard drivers, please use codes from next pages and for special drivers, please attach sketch and specifications.

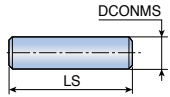
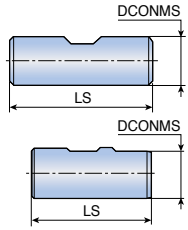
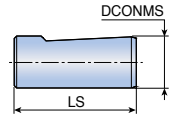
Workpiece (If possible, please attach a drawing)		
Material description (DIN material number or any other standard)		
Hardness and properties		
Hole type		☐ Blind hole ☐ Through hole ☐ Drilling into pre-hole ☐ Angled entry ☐ Drilling into solid ☐ Boring ☐ Angled exit
Drilling depth		mm
Hole tolerance		
Application	Workpiece	☐ Stationary ☐ Rotating
	Tool	☐ Stationary ☐ Rotating

Machine			
Machine type			
Power		kW	
Cutting data	Cutting speed (Vc)	m/min	
	Revolutions	**N**min : RPM	**N**max : RPM
	Feed	**F**min : mm/rev	**F**min : mm/rev
	Feed rate (VF)	mm/min	
Coolant	Coolant type	☐ Oil ☐ Soluble oil ☐ Other	
	Coolant pressure	Bar	
	Coolant volume	liter/min	

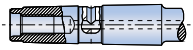
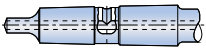
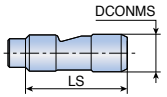
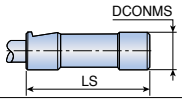
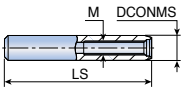
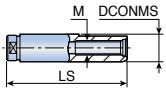
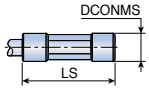
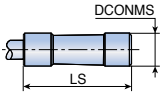
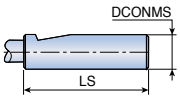
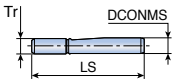
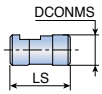
Standard gundrill drivers for machining centers and lathes

Drivers

Drivers are available for dedicated and CNC machines as well as any specified diameter or length. Please note that the driver codes and technical data can be found in the chart below.

Driver type	Drawing	DCONMS x LS	Driver code
Cylindrical DIN1835A DIN6535HA		20x50	10
		25x56	11
		32x60	12
		40x70	13
		.75x2.03"	95
		1.00x2.28"	96
		1.25x2.28"	97
Weldon DIN1835B DIN6535HB		20x50	22
		25x56	23
		32x60	24
		40x70	25
		.75x2.03"	99
		1.00x2.28"	100
		1.25x2.28"	101
Whistle notch DIN1835E		20x50	34
		25x56	35
		32x60	36
		40x70	37

Standard drivers for gundrill machines

Driver type	Drawing	DCONMS x LS	Driver code
DIN228AK		CM2	46
		CM3	47
		CM4	48
DIN228BK		CM2	50
		CM3	51
		CM4	52
Central clamping surface 15°		.750x2.75”	56
		25x70	57
		1.00x2.75”	58
		1.25x2.75”	59
		1.50x2.75”	60
Frontal clamping surface 15°		16x50	61
Cylindrical with thread		25x100 M16x1.5	66
		36x120 M24x1.5	67
VDI design		25x112 M16x1.5	70
		36x135 M24x1.5	71
Central clamping hexagonal		25x70	72
		32x70	73
Central clamping tapered		.75x2.75”	76
		20x70	77
Frontal clamping surface 2°		1.00x2.75”	80
		1.00x3.94”	81
		1.25x2.75”	82
		1.25x3.94”	83
		1.50x2.75”	84
		1.50x3.94”	85
Trapezoidal thread		28x126 Tr 28x2	88
		36x162 Tr 36x2	89
Spraymist driver		25x50	91
		35x60	92

Reamer order form

★: Mandatory data field

Date: Subsidiary:

Company★ : Enquiry dead line:

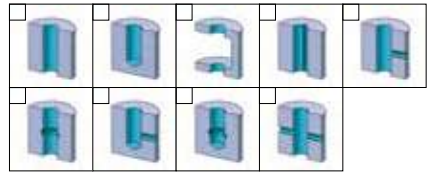
Contact person:

Address:

Request reason	
New tool ☐	Problem ☐
Quality	
Cycle time	
Alternative supplier	
Other	

Existing tool	
Maker	
Tool type	
Speed & Feed	
Tool life	
No of teeth	
Coolant type	

Machine		
Model		
Type★	vertical	☐
	horizontal	☐
	multi-spindle	☐
Adaption★		
Max RPM		
Power		
Spindle accuracy		
Coolant		

Workpiece	
Description★	
Hardness★	
Pre-hole size★	(Tolerance :)
Depth★	
Bore type	
Clamping information	

Lubricant	
Oil	☐
MQL	☐
Emulsion	☐
Ratio of mixture	
Coolant pressure	

Quality requirement	
Tolerance★	
Surface finish(Ra)★	
Roundness	
Straightness	
Cylindricity	
Concentricity	

Tool			
Type★	TM(Index multi-edge) ☐	TB(Single blade) ☐	TS(Solid) ☐ Other ☐ ( )
Diameter★			
Depth of cut★			
Coolant★	Internal ☐	External ☐	
Shank type★			
Holder type	Collet ☐	Hydraulic ☐	Other ☐
Adjustable adaptor	Yes ☐	No ☐	

MILLING



MILLING

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Guide to Icons



Entering Angle



Angled Screw



Insert Page



Cutting Condition Page



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Technical Data Page



Cutter Page



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Tailor-made Inserts	E269
Recommended Cutting Conditions	E271
Mounting Reference	E274
Technical Data	E276
Ramping Data	E286

Tool Selection Guide

Face mills

Series			TANGSFEED	MILLRUSH	MILL2RUSH	MILL2RUSH	CHASEMILL
			4T-TF90	3P TF90	6N TF90	SCRM90TN	TFM90AX 2S-TFM90AP TFM90AP
							
Pages			E38	E39-E41	E42-E44	E45-E46	E47-E50
Approach angle			90°	90°	90°	90°	90°
Max. depth of cut(mm)			8.3-12.5	4.7-15	4.1-9.2	13-15	5.5-17.9
Diameter range(mm)			Ø40-Ø200	Ø32-Ø250	Ø40-Ø250	Ø50-Ø250	Ø32-Ø200
Insert			LPK(H)U 0904 LPKU 1407	3PK(H)T 0603 3PK(H)T 1004 3PK(H)T 1505 3PK(H)T 1906	6NKU 0403 6NGU 0604 6NGU 0905	TNMX 1806 TNM(G)X 2207	AXM(C)T 0602 APK(C)T 09T3 APK(C)T 1204 APK(C)T 1705/06 APKT1907
Application	Facing		●	●	●	●	●
	High feed milling						○
	Shouldering		●	●	●	●	●
	Slotting		●	●	●	●	●
	Straight ramping		●	●			●
	Helical ramping		●	●			●
	Slanted shoulder & chamfer						
	Side slotting						
	Profiling						○
	Step down						
	Counter boring						

ADVANCE MACHINING
TaeguTec Industry 4.0

Tool Selection Guide

Face mills

CHASE 2 MILL	CHASE 4 MILL	CHASE 8 MILL	CHASE ALU	CHASE 4 FINISH	CHASE 2 QUAD
TFM90AN	**4N TF90**	**8D-TF90**	**TFM90XEV**	For Finishing **4W-TF90**	For Finishing **TFM90SNS**
					
E51-E52	E53-E54	E55-E56	E57	E58	E59
90°	90°	90°	90°	-	90°
11-15	3.5-13.8	5.0-8.0	16-21	0.5	1.0
Ø40-Ø200	Ø32-Ø100	Ø32-Ø160	Ø40-Ø200	Ø50-Ø160	Ø50-Ø250
ANM(H)X 1106 ANM(H)X 1607	4NKT 0402 4NK(H)T 0603 4NK(H)T 0904 4NKT 1106 4NKT 1407	SQKU 0703 SQK(H)U 1206	XEVT 1605 XEVT 2206	4WHU 1207	SNEX 1204 SNET 1205
●	●	●	●	●	●
	○				
●	●	●	●		
●	●	●	●		
●	●		●		
●	●		●		
	○				
	●		●		

● Recommended, ○ Suitable

Tool Selection Guide

Face mills

Series			CHASE2QUAD For Finishing TQ90SNS	LIONMILL LM90TP	LIONMILL LM90SE	CHASE2QUAD TFM90SN TFM88SN	CHASE2QUAD TFM75SN
							
Pages			E60	E61	E62	E63-E64	E65
Approach angle			90°	90°	90°	90°, 88°	75°
Max. depth of cut(mm)			1.0	17.6	17.0	12.0	9.5
Diameter range(mm)			Ø250-Ø400	Ø80-Ø315	Ø125-Ø315	Ø50-Ø200	Ø50-Ø250
Insert			SNEX 1204 SNET 1205	TPKN 2204	SEKX 2107	SNGX 1306 SNGX 1306 ZN	SNM(G)X 1306 EN SNMX 1306 XTN
Application	Facing		●	●	●	●	●
	High feed milling						
	Shouldering			●	●	●	
	Slotting						
	Straight ramping						
	Helical ramping						
	Slanted shoulder & chamfer						●
	Side slotting						
	Profiling						
	Step down						
	Counter boring						

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Tool Selection Guide

Face mills

LIONMILL	CHASEMILL	CHASE10MILL	LIONMILL	CHASE12MILL	CHASE2HEPTA
LM75SP	**TFM75AP**	**TFM65PT**	**LM60SC**	**12D-TF45**	**14D-F45XN**
					
E66	E67	E68	E69-E70	E71-E72	E73-E74
75°	75°	65°	60°	45°	45°
9.5-12.5	3.9	3.3-6.5	13.0-18.0	3.0-5.0	3.5-5.0
Ø80-Ø315	Ø80-Ø125	Ø40-Ø125	Ø125-Ø315	Ø50-Ø250	Ø50-Ø250
SPKN 1203 SPKN 1504	APKT 1705 PER-M APKT 1705 PER-EM	PTKU 0503 PTKU 1006	SCKN 2107 SCKN 2708	HXK(H)U 0605 HXK(H)U 1007	XNM(H)U 0605 XNM(H)U 0906
●	●	●	●	●	●
●		●	●	●	●

● Recommended, ○ Suitable

Tool Selection Guide

Face mills

Series			CHASE 2 HEPTA 14D-F45XNH	CHASE 2 HEPTA 14D-F45XNW	CHASE HEPTA 7S-F45	CHASE 2 QUAD TFM45SN	CHASE 2 QUAD TFM45SNS
							
Pages			E75	E76	E77	E78	E79
Approach angle			45°	45°	45°	45°	45°
Max. depth of cut(mm)			3.5-5.0	5.0	3.2	7.0	8.8
Diameter range(mm)			Ø63-Ø125	Ø80-Ø315	Ø32-Ø125	Ø40-Ø250	Ø63-Ø250
Insert			XNM(H)U 0605 XNM(H)U 0906	XNHU 0906	7EMT 0604	SNM(G)X 1306 AN SNMX 1306 XTN	SNMX 1607 SNHX 1606
Application	Facing		●	●	●	●	●
	High feed milling						
	Shouldering						
	Slotting						
	Straight ramping				●		
	Helical ramping				●		
	Slanted shoulder & chamfer		●	●	●	●	●
	Side slotting						
	Profiling						
	Step down						
	Counter boring						

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Tool Selection Guide

Face mills

CHASE 2 QUAD	CHASE 2 QUAD	CHASE 2 MILL	LION MILL	LION MILL	CHASE 2 MOLD
TFM45SNS-CA	**TFM45SNW TQ45SNW**	**TFM45AN**	**LM45SD**	**LM45SE**	**TFMRNS**
					
E80	E81	E82	E83	E84	E85-E86
45º	45º	45º	45º	45º	-
8.8	8.8	8.4	6.5-8.7	6.5-8.7	5.0-8.0
Ø125-Ø315	Ø80-Ø355	Ø50-Ø160	Ø80-Ø315	Ø80-Ø250	Ø32-Ø200
SNMX 1607 SNHX 1606	SNHX 1606	ANHX 1607 ANR-M	SDKN 1203 SDKN 1504	SEKN 1203 SEKN 1504	RNMU 1004 RNMU 1205 RNMU 1606
●	●	●	●	●	●
					●
					●
●	●		●	●	
					●

● Recommended, ○ Suitable

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Tool Selection Guide

Face mills

Series			CHASEMOLD TFMRY	CHASESPEED TFMRN	CHASESPEED TFMRP	CERAMICSFEED TFMBN-09CH	CERAMICSFEED TFMBN-12
							
Pages			E87-E89	E90	E91	E92	E93
Approach angle			-	-	-	-	-
Max. depth of cut(mm)			4.0-10.0	6.3	6.3	1.5	2.5
Diameter range(mm)			Ø32-Ø250	Ø50-Ø80	Ø50	Ø40-Ø50	Ø50-Ø80
Insert			RYM(H)X 0803 RYM(H)X 1004 RYM(H)X 1205 RYM(H)X 1606 RYMX 2007	RNGN 1207 FL	RPGN 1204 FL	BNGX 0904	BNGX 1207
Application	Facing		●	●	●	●	●
	High feed milling					●	●
	Shouldering						
	Slotting						
	Straight ramping		●	●	●	●	●
	Helical ramping		●	●	●	●	●
	Slanted shoulder & chamfer						
	Side slotting						
	Profiling		●	●	●	●	●
	Step down						
	Counter boring						

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Tool Selection Guide

Face mills

CHASE10MILL	CHASE4FEED	CHASE2FEED	CHASEFEED		
TFMPT 	**TFMBL** 	**TFMBL-13** 	**TFMSB** 		
E94	E95-E96	E97-E98	E99-E100		
25°	-	-	-		
1.5-3.0	1.0-2.0	2.0	1.0-2.0		
Ø40-Ø200	Ø32-Ø200	Ø40-Ø250	Ø32-Ø250		
PTKU 0503 PTKU 1006	BLMP 0603 BLMP 0904 BLMP 1105	BLMP 1306	SBMT 0603 SBMT 0904 SBMT 1306		
●	●	●	●		
●	●	●	●		
●	●	●	●		
●	●	●	●		
●	●	●	●		

● Recommended, ○ Suitable

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Tool Selection Guide

End mills & modular heads

Series			MILLSFEED	TANGSFEED	MILLRUSH	MILL2RUSH	MILL2RUSH
			2S-TE90CV	4T-TE90	3P-TE90	6N TE90	SCRM90TN
							
Pages			E101-E102	E103-E104	E105-E110	E111-E112	E113
Approach angle			90°	90°	90°	90°	90°
Max. depth of cut(mm)			5.0	4.6-8.3	3.5-15.0	4.1-9.2	13.0
Diameter range(mm)			Ø6-Ø20	Ø10-Ø40	Ø8-Ø50	Ø20-Ø40	Ø35-Ø40
Insert			CVK(H)T 0502	LPK(H)U 0502 LPK(H)U 0904	3PKT 0402 3PK(H)T 0603 3PK(H)T 1004 3PK(H)T 1505 3PK(H)T 1906	6NKU 0403 6NGU 0604 6NGU 0905	TNMX 1806
Application	Facing		●	●	●	●	●
	High feed milling		○				
	Shouldering		●	●	●	●	●
	Slotting		●	●	●	●	●
	Straight ramping		●	●	●		
	Helical ramping		●	●	●		
	Slanted shoulder & chamfer						
	Profiling		○				
	Plunging						
	Step down						
	Counter boring						

ADVANCE MACHINING
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Tool Selection Guide

End mills & modular heads

CHASEMILL	CHASEMILL	CHASE2MILL	CHASE4MILL	CHASE8MILL	CHASEALU
MTE90AX-06-L	**TE90AX 2S-TE90AP TE90AP**	**TE90AN**	**4N TE90**	**8D-TE90**	**TE90XEV-HSK63A**
					
E114	E115-E123	E124-E125	E126-E131	E132-E133	E134
90°	90°	90°	90°	90°	90°
5.5	5.5-17.9	11.0-15.0	3.5-13.8	5.0	16
Ø8-Ø30	Ø8-Ø42	Ø25-Ø50	Ø8-Ø40	Ø16-Ø40	Ø25-Ø50
AXCT 06-L	AXM(C)T 0602 APK(C)T 09T3 APK(C)T 1204 APK(C)T 1705/06 APKT 1907	ANM(H)X 1106 ANM(H)X 1607	4NKT 0402 4NK(H)T 0603 4NK(H)T 0904 4NKT 1106 4NKT 1407	SQKU 0703	XEVT 1605
●	●	●	●	●	●
	○		○		
●	●	●	●	●	●
●	●	●	●	●	●
	●	●	●		●
	●	●	●		●
	○		○		
			●		●

● Recommended, ○ Suitable

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Tool Selection Guide

End mills & modular heads

Series			CHASEALU TE90XEV	MILLRUSH 3P-TCF	CHASEQUAD TSF	CHASEQUAD TDM	CHASEQUAD TCF
							
Pages			E135	E136-E137	E138	E139	E140
Approach angle			90°	30°-60°	90°	90°	45°-75°
Max. depth of cut(mm)			16-21	-	5.6-13.4	12-40	-
Diameter range(mm)			Ø25-Ø40	Ø3.3-Ø31	Ø12-Ø50	Ø12-Ø50	Ø8.3-Ø38.9
Insert			XEVT 1605 XEVT 2206	3PKT 0402 3PK(H)T 0603 3PK(H)T 1004	XOMT 0602 SPMG(T) 0904 SPMG(T) 1104 SPMG(T) 1405	XOMT 0602 SPMG(T) 0904 SPMG(T) 1104 SPMG(T) 1405	SPMG(T) 1104
Application	Facing		●		●	●	
	High feed milling						
	Shouldering		●		●	●	
	Slotting		●		●	●	
	Straight ramping		●			●	
	Helical ramping		●			●	
	Slanted shoulder & chamfer			●			●
	Profiling						
	Plunging				●	●	
	Step down		●			●	
	Counter boring				●	●	
	Drill mill					●	

ADVANCE MACHINING
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Tool Selection Guide

End mills & modular heads

CHASEHEPTA	CHASE2MOLD	CHASEMOLD	FINEBALL	FINEBALL	CHASESPEED
7S-E45	**TERNS**	**TERY**	**TNF**	**TNFR**	**TERP**
					
E141	E142-E143	E144-E146	E147-E149	E150-E152	E153-E154
45°	-	-	-	-	-
3.2	5.0-8.0	4.0-10.0	-	-	4.7-6.3
Ø32-Ø50	Ø25-Ø50	Ø16-Ø50	Ø6-Ø32	Ø6-Ø32	Ø20-Ø40
7EMT 0604	RNMU 1004 RNMU 1205 RNMU 1606	RYM(H)X 0803 RYM(H)X 1004 RYM(H)X 1205 RYM(H)X 1606 RYM(H)X 2007	NFB (NFR)	NFR	RPGN 0903 FL RPGN 1204 FL
●	●	●		●	●
				●	
				●	
●	●	●	●	●	●
●	●	●	●	●	●
●					
	●	●	●	○	●
			(○)	●	
				●	
				●	
				●	

● Recommended, ○ Suitable

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Tool Selection Guide

End mills & modular heads

Series			DUETBALL 2F	TRIOBALL 3F	CHASE2BALL TDB50X	CHASE2BALL TDB50X-WT	
							
Pages			E155-E156	E157	E158	E159	
Approach angle			-	-	-	-	
Max. depth of cut(mm)			11.8-55.3	39-94	59-69	59-69	
Diameter range(mm)			Ø16-Ø32	Ø32-Ø50	Ø50	Ø50	
Insert			2FB APKT 09T3 APKT 1204	3FB CNHX 1311 CNHX 1606	6RBE 50-M	6RBE 50-M	
Application	Facing						
	High feed milling						
	Shouldering						
	Slotting						
	Straight ramping		●	●	●	●	
	Helical ramping		●	●	●	●	
	Slanted shoulder & chamfer						
	Profiling		●	●	●	●	
	Plunging						
	Step down						
	Counter boring						
	Drill mill						

Tool Selection Guide

High feed end mills & modular heads

NANRUSH	CERAMICSFEED	CHASE10MILL	CHASE4FEED	CHASE2FEED	CHASEFEED
THFN 	**TEBN-09CH** 	**TEPT** 	**TEBL** 	**TEBL-13** 	**TESB** 
E160-E161	E162	E163	E164-E171	E172	E173-E175
20°	-	25 °	-	-	-
0.3-0.5	1.5	1.5-3.0	0.5-2.0	2.0	1.0-2.0
Ø6-Ø8	Ø25-Ø40	Ø20-Ø40	Ø8-Ø42	Ø32-Ø42	Ø16-Ø42
HFN 060 HFN 080	BNGX 0904	PTKU 0503 PTKU 1006	BLMP 0402 BLMP 0603 BLMP 0904 BLMP 1105	BLMP 1306	SBMT 0603 SBMT 0904 SBMT 1306
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●

● Recommended, ○ Suitable

TaeguTec Member IMC Group

Tool Selection Guide

Extended flute cutters

Series	TANGSFEED 4T-TEF	TANGSFEED 4T-TES	CHASEVQUAD 4S-TEF 4S-TES	MILLRUSH 3P TEF 3P TES	MILL2RUSH TEF-TN TES-TN
					
Pages	E176	E177	E178-E179	E180-E181	E182-E183
Approach angle	90°	90°	90°	90°	90°
Max. depth of cut(mm)	15-51	34-56	52-77.9	20-83	48-71
Diameter range(mm)	Ø16-Ø40	Ø50-Ø100	Ø32-Ø80	Ø20-Ø100	Ø50-Ø100
Insert	LPK(H)U 0502 LPK(H)U 0904	LPKU 1407	SVK(H)T 1145	3PK(H)T 0603 3PK(H)T 1004 3PK(H)T 1505 3PK(H)T 1906	TNMX 1806
Application Facing					
High feed milling					
Shouldering	●	●	●	●	●
Slotting	●	●	●	●	●
Trochoidal milling	●	●	●		
Straight ramping					
Helical ramping					
Slanted shoulder & chamfer					
Profiling					
Plunging					
Step down					
Counter boring					

Tool Selection Guide

Extended flute cutters

CHASE2MILL	CHASEMILL	CHASEMILL	CHASEQUAD		
TEF-AN **TES-AN** 	**TEF-AX** **2S-TEF-AP** **TEF-AP** 	**TES-AP** 	**TEF** **TES** 		
E184-E185	E186	E187	E188		
90°	90°	90°	90°		
40-69	16-45	45-88	23.8-48.4		
Ø32-Ø100	Ø16-Ø40	Ø50-Ø100	Ø32-Ø80		
ANM(H)X 1106 ANM(H)X 1607	AXM(C)T 0602 APK(C)T 09T3 APK(C)T 1204 APK(C)T 1705/06	APK(C)T 1204 APK(C)T 1705/06	SPMG(T) 0904 SPMG(T) 1104 SPMG(T) 1405		
●	●	●	●		
●	●	●	●		
	●	●			

● Recommended, ○ Suitable

TaeguTec

Tool Selection Guide

Slotting cutters

Series			TOPSLOT TSM-TS16	TOPSLOT TSM-SL	TOPSLOT TSM-FD-Z	TOPSLOT TSM-FD-ZN	TOPSLOT TSM-FD -S/W-ZN
							
Pages			E189-E190	E191-E192	E193-E194	E195	E196-E198
Approach angle			-	-	-	-	-
Max. width of cut(mm)			1.2-6.0	3-6	3-10	10-20	10-26
Diameter range(mm)			Ø32.2-Ø80	Ø25-Ø63	Ø63-Ø250	Ø80-Ø125	Ø100-Ø315
Insert			TS16	SLOT	ZNHT	ZNHU 080 ZNHU 110	ZNHU 080 ZNHU 110 ZNHU 140
Application	Facing		●				
	Shouldering						
	Slotting						
	T slotting		●	●			
	Side slotting		●	●	●	●	●
	Internal groove milling		●	●			
	Bottom shouldering		●	●	●	●	●
	Slitting				●	●	●
	External threading						
	Internal threading						

ADVANCE MACHINING
TaeguTec Industry 4.0

Tool Selection Guide

Slotting cutters

TOPSLOT	TOPSLOT	TOPSLOT	TSC Slotting Cutter	MAXISLOT	MAXISLOT
TSM-FF-Z	**TSM-FF-ZN**	**TSM-FF-S/W-ZN**	**TSC**	**TR-S**	**TR-F**
					
E199	E200	E201-E203	E204	E205	E206
-	-	-	-	-	-
3-10	10-20	10-26	1.6-4.52	3-10	8-10
Ø80-Ø160	Ø63-Ø125	Ø100-Ø315	Ø75-Ø160	Ø24.7-Ø39.7	Ø24.25-Ø39.25
ZNHT	ZNHU 080 ZNHU 110	ZNHU 080 ZNHU 110 ZNHU 140	TIMC TIMJ TIPV	-	-
					●
					●
●	●	●		●	
●	●	●	●	●	
●	●	●		●	●
			●		

● Recommended, ○ Suitable

Tool Selection Guide

Slotting cutters

Series			MAXISLOT TR-T-W55 TR-T-M60 				
Pages			E207				
Approach angle			-				
Max. width of cut(mm)			7.7-9.5				
Diameter range(mm)			Ø24.7-Ø39.7				
Insert			-				
Application	Facing						
	Shouldering						
	Slotting						
	T slotting						
	Side slotting						
	Internal groove milling						
	Bottom shouldering						
	Slitting						
	External threading		●				
	Internal threading		●				

Tool Selection Guide

Milling inserts

Series			MILLSFEED	TANGSFEED	MILLRUSH	MILL2RUSH	MILL2RUSH
			CVK(H)T 0502	LPK(H)U 0502 LPK(H)U 0904 LPKU 1407	3PKT 0402 3PK(H)T 0603 3PK(H)T 1004 3PK(H)T 1505 3PK(H)T 1906	6NKU 0403 6NGU 0604 6NGU 0905	TNMX 1806 TNM(G)X 2207
							
Material			P M K S H	P M K S H	P M K N S H	P M K N S H	P M K S H
Pages			E235	E238	E216-E217	E221-E222	E261
Approach angle			90°	90°	90°	90°	90°
Max. depth of cut(mm)			0.5-5	4.6-12.5	3.5-15	4.1-9.2	13-15
Application	Facing		●	●	●	●	●
	High feed milling		○				
	Shouldering		●	●	●	●	●
	Slotting		●	●	●	●	●
	Straight ramping		●	●	●		
	Helical ramping		●	●	●		
	Slanted shoulder & chamfer						
	Profiling		○				
	Plunging						
	Step down						
	Counter boring						

● Recommended, ○ Suitable

TaeguTec

Tool Selection Guide

Milling inserts

Series			CHASEMILL AXCT 0602-L	CHASEMILL AXM(C)T 0602 APK(C)T 09T3 APK(C)T 1204 APK(C)T 1705/06 APKT 1907	CHASEMILL APCT 12-PCD35	CHASE2MILL ANM(H)X 1106 ANM(H)X 1607	CHASE4MILL 4NKT 0402 4NK(H)T 0603 4NK(H)T 0904 4NKT 1106 4NKT 1407
							
Material			P M S	P M K N S H	N	P M K N S H	P M K N S H
Pages			E230	E225-E231	E226	E224	E218-E219
Approach angle			90°	90°	90°	90°	90°
Max. depth of cut(mm)			5.5	0.5-17.9	3.5	11-15	0.5-13.8
Application	Facing		●	●	●	●	●
	High feed milling			○			○
	Shouldering		●	●	●	●	●
	Slotting		●	●	●	●	●
	Straight ramping			●		●	●
	Helical ramping			●		●	●
	Slanted shoulder & chamfer						
	Profiling			○			○
	Plunging						
	Step down						●
	Counter boring						

ADVANCE MACHINING
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Tool Selection Guide

Milling inserts

CHASE8MILL	CHASE4LU	CHASE4FINISH	CHASE2QUAD	LIONMILL	LIONMILL
SQKU 0703 SQK(H)U 1206	XEVT 1605 XEVT 2206	4WHU 1207	SNEX 1204 SNET 1205	TPKN 2204	SEKX 2107
					
P M K	N	P M K N S H	P K	P M K	P K
E257	E264	E220	E251	E262	E249
90°	90°	90°	90°	90°	90°
5.0-8.0	14-21	0.5	1.0	17.6	17
●	●	●	●	●	●
●	●			●	●
●	●			●	
	●				
	●				
	●				

● Recommended, ○ Suitable

TaeguTec

Tool Selection Guide

Milling inserts

Series	CHASE VQUAD	CHASE 2QUAD	CHASE 2QUAD	LIONMILL	CHASEMILL
	SVK(H)T 1145	SNGX 1306... SNGX 1306 ZN	SNM(G)X 1306 EN... SNMX 1306 XTN	SPKN 1203 SPKN 1504	APKT 1705
					
Material	P M K S H	P M K	P M K	P M K	P M K N S H
Pages	E258	E253	E252	E256	E228
Approach angle	90°	90°, 88°	75°	75°	75°
Max. depth of cut(mm)	9-10	10-12	9.5	9.5-12.5	3.9
Application					
Facing		●	●	●	●
High feed milling					
Shouldering	●	●			
Slotting	●				
Straight ramping					
Helical ramping					
Slanted shoulder & chamfer			●	●	
Profiling					
Plunging					
Step down					
Counter boring					

Tool Selection Guide

Milling inserts

CHASE 10 MILL	LION MILL	CHASE 12 MILL	CHASE 2 HEPTA	CHASE HEPTA	CHASE 2 QUAD
PTKU 0503 PTKU 1006	SCKN 2107 SCKN 2708	HXK(H)U 0605 HXK(H)U 1007	XNM(H)U 0605 XNM(H)U 0906	7EMT 0604	SNM(G)X 1306 AN... SNMX 1306 XTN
					
P M K	P K	P K	P M K	P M K	P M K N
E242	E248	E237	E265-E266	E223	E252
65°	60°	45°	45°	45°	45°
3.3-6.5	13-18	3.0-5.0	1.0-5.0	3.2	6-7
●	●	●	●	●	●
				●	
				●	
●	●	●	●	●	●

● Recommended, ○ Suitable

TaeguTec
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Tool Selection Guide

Milling inserts

Series			CHASE 2 QUAD	CHASE 2 MILL	LION MILL	CHASE 2 MOLD	CHASE MOLD
			SNMX 1607 SNHX 1606	ANHX 1607	SDKN 1203 SDKN 1504 SEKN 1203 SEKN 1504	RNMU 1004 RNMU 1205 RNMU 1606	RYM(H)X 0803 RYM(H)X 1004 RYM(H)X 1205 RYM(H)X 1606 RYMX 2007
							
Material			P M K	P M K N S	P	P M K S H	P M K S H
Pages			E254	E223	E248-E249	E244	E245-E246
Approach angle			45°	45°	45°	-	-
Max. depth of cut(mm)			8.8	8.4	6.5-8.7	5-8	4-10
Application	Facing		●	●	●	●	●
	High feed milling						
	Shouldering						
	Slotting						
	Straight ramping					●	●
	Helical ramping					●	●
	Slanted shoulder & chamfer		●		●		
	Profiling					●	●
	Plunging						
	Step down						
	Counter boring						

ADVANCE MACHINING
TaeguTec Industry 4.0

Tool Selection Guide

Milling inserts

CHASE SPEED	CERAMIC SFEED	CERAMIC SFEED	CHASE 10 MILL	CHASE 4 FEED	CHASE 2 FEED
RNGN 1207 FL RPGN 0903 FL RPGN 1204 FL	BNGX 0904	BNGX 1207	PTKU 0503 PTKU 1006	BLMP 0402 BLMP 0603 BLMP 0904 BLMP 1105	BLMP 1306
					
S	S	S	P M K	P M K S H	P M K S H
E243	E234	E234	E242	E232	E233
-	-	-	25°	-	-
4.7-6.3	1.5	2.5	1.5-3.0	0.5-2.0	2.0
●	●	●	●	●	●
	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●

● Recommended, ○ Suitable

Tool Selection Guide

Milling inserts

Series	CHASEFEED	MILLRUSH	CHASEQUAD	NANRUSH	FINEBALL
	SBMT 0603 SBMT 0904 SBMT 1306	3PKT 0402 3PK(H)T 0603 3PK(H)T 1004	SPMG(T) 0904 SPMG(T) 1104 SPMG(T) 1405 XOMT 0602	HFN 060 HFN 080	NFB
					
Material	P M K S H	P M K N S H	P M K	P M K S H	P M K S H
Pages	E247	E216	E255	E236	E239
Approach angle	-	30°-60°	15°-45°, 90°	20°	-
Max. depth of cut(mm)	1.0-2.0	-	-	0.3-0.5	-
Application Facing	●		●	●	
High feed milling	●			●	
Shouldering			●		
Slotting			●		
Straight ramping	●		●	●	●
Helical ramping	●		●	●	●
Slanted shoulder & chamfer		●	●		
Profiling	●			●	●
Plunging			●		
Step down			●		
Counter boring			●		
Drill mill			●		

Tool Selection Guide

Milling inserts

FINEBALL	DUETBALL	TRIOBALL	CHASE2BALL		
NFR	**2FB**	**3FB**	**6RBE**		
					
P M K S H	P M K S H	P M K S H	P M K S H		
E240-E241	E214	E215	E222		
-	-	-	-		
-	11.8-44.7	39-94	59-69		
●					
●					
●					
●	●	●	●		
●	●	●	●		
○	●	●	●		
●					
●					
●					
●					

● Recommended, ○ Suitable

Tool Selection Guide

Slotting inserts

Series			TOPSLOT TS16	TOPSLOT SLOT	TOPSLOT ZNHT	TOPSLOT ZNHU	TSC slotting cutter TIMC TIMJ TIPV
							
Material			P M K S H	P M K	P M K N	P M K	P M K N
Pages			E263	E250	E267	E268	E259-E260
Approach angle			-	-	-	-	-
Max. depth of cut(mm)			4.8	*	*	*	
Application	Facing		●				
	Shouldering						
	Slotting						
	Straight ramping						
	Helical ramping						
	Side slotting		●	●	●	●	●
	Profiling						
	Plunging						
	Step down						
	Counter boring						
	Drill mill						
	Slitting				●	●	●

• ' * ' Marked: For CDX, refer to the cutter page

ADVANCE MACHINING
TaeguTec Industry 4.0

Tool Selection Guide

Tailor-made inserts

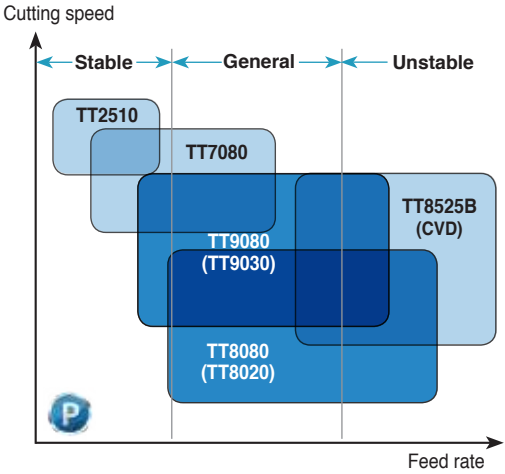
Tailor-made Insert					
LNC PMIN SNA SNB 					
P M K N S H					
E269-E270					
-					
●					
●					
●					
●					

● Recommended, ○ Suitable

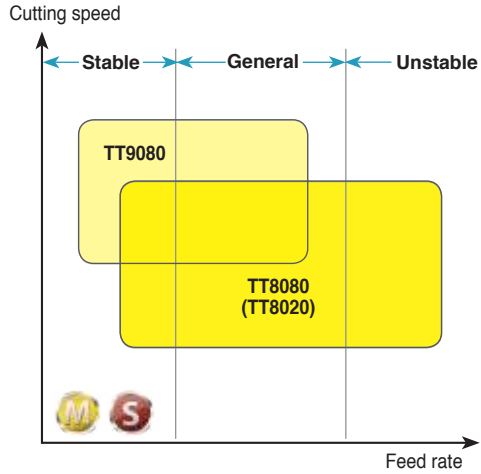
Grades

Selection guide for milling grades

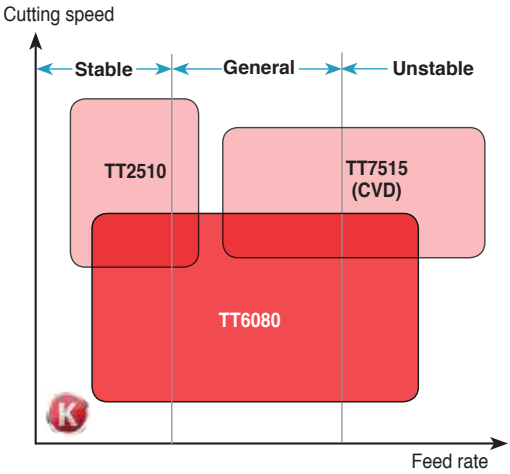
For steel



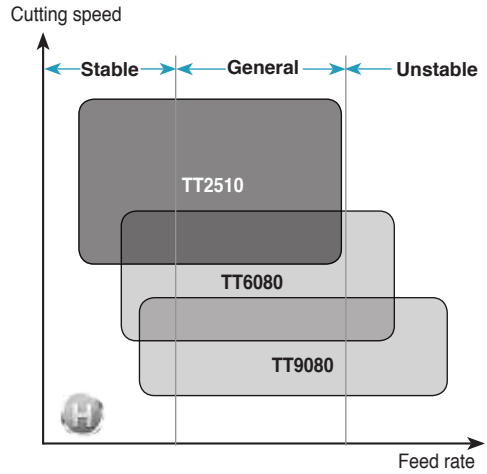
For stainless steel & super alloy



For cast iron



For hardened material



Grades

Carbide grades

Grades	ISO	Charactristics & applications
K10 Carbide	K05 – K15 N05 – N15 S05 – S15	• General machining of cast iron, aluminum alloys and non-ferrous materials
TT2510 PVD coated	P05 – P25 H05 – H25	• High speed milling of pre-hardened steel and hardened steel
TT6080 PVD coated	K05 – K25 H05 – H25	• General machining for gray and ductile cast iron • Finish and medium machining of hardened steel
TT7080 PVD coated	P05 – P25 K05 – K25	• General milling of steel • Heavy interrupted cutting of cast iron
TT9080 PVD coated	P20 – P40 M20 – M40 S20 – S40	• General machining of steel, stainless steel and heat-resistant alloy
TT9030 PVD coated	P20 – P40 M20 – M40 S20 – S40	• General machining of steel, stainless steel and heat-resistant alloy
TT8080 PVD coated	P30 – P50 M30 – M50 S30 – S50	• Interrupted and rough machining of steel and stainless steel • Low speed and interrupted machining of heat-resistant alloy
TT8020 PVD coated	P30 – P50 M30 – M50 S30 – S50	• Interrupted and rough machining of steel and stainless steel • Low speed and interrupted machining of heat-resistant alloy
TT5515 PVD coated	P10 – P30 M10 – M30 K10 – K30 S10 – S30 H10 – H30	• High speed milling of steel and hardened steel • General milling of stainless steel, cast iron and heat-resistant alloy
TT5525 PVD coated	P20 – P40 M20 – M40 S20 – S40	• General machining of steel, stainless steel and heat-resistant alloy
TT7515 CVD coated	K05 – K25 H05 – H25	• General machining for gray and ductile cast iron • Finish and medium machining of hardened steel
TT8525B CVD coated	P30 – P45 M30 – M45	• Rough milling & high speed drilling of carbon & alloy steel • Medium speed milling of stainless steel

Grades

Cermet, ceramic and CBN grades

Grades	ISO	Charactristics & applications
CT7000 cermet	P15 – P25 M15 – M25	• Finish milling of steel and stainless steel
AS10 Ceramic	K20 – K30	• General milling of cast iron
TC3030 Ceramic	S25 – S35	• High feed milling of super alloy • SiAlON ceramic grade
TB7015 CBN	H25 – H35 K10 – K20	• Machining of hardened steel • High speed machining of cast iron

Milling Cutters



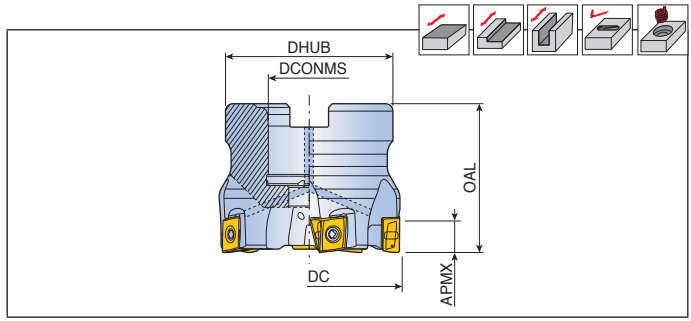
4T-TF90-09/14

TANGSFEED

Face mills



90°



Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
4T-TF90-640-16R-09	6	40	16	38	40	8.3	•	A	0.3	SH M8x30	LPK(H)U 0904... E238
550-22R-09	5	50	22	45	40	8.3	•	A	0.4	SH M10x30	
750-22R-09	7	50	22	45	40	8.3	•	A	0.4	SH M10x30	
663-22R-09	6	63	22	47	40	8.3	•	A	0.5	SH M10x30	
1063-22R-09	10	63	22	47	40	8.3	•	A	0.5	SH M10x30	
4T-TF90-440-16R-14	4	40	16	38	40	12.5	•	A	0.3	SH M8x30	LPKU 1407... E238
450-22R-14	4	50	22	45	40	12.5	•	A	0.3	SH M10x30	
650-22R-14	6	50	22	45	40	12.5	•	A	0.3	SH M10x30	
563-22R-14	5	63	22	47	40	12.5	•	A	0.5	SH M10x30	
863-22R-14	8	63	22	47	40	12.5	•	A	0.5	SH M10x30	
780-27R-14	7	80	27	58	50	12.5	•	A	1.0	SH M12x35	
1080-27R-14	10	80	27	58	50	12.5	•	A	1.2	SH M12x35	
8100-32R-14	8	100	32	85	50	12.5	•	A	2.0	SH M16x35	
12100-32R-14	12	100	32	85	50	12.5	•	A	2.1	SH M16x35	
10125-40R-14	10	125	40	85	63	12.5	•	A	3.1	SH M20x40	
14125-40R-14	14	125	40	85	63	12.5	•	A	3.3	SH M20x40	
12160-40R-14	12	160	40	110	63	12.5	x	C	4.1	-	
16160-40R-14	16	160	40	110	63	12.5	x	C	4.3	-	
14200-60R-14	14	200	60	130	63	12.5	x	C	5.7	-	
18200-60R-14	18	200	60	130	63	12.5	x	C	5.8	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench	Wrench handle		
4T-TF90-09	TS 30D082-P	TBLD T08P-W4	THND 4W	-	
4T-TF90-14	TS 40G110I	TBLD T15-W6	-	SW6-T	

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E288-E289

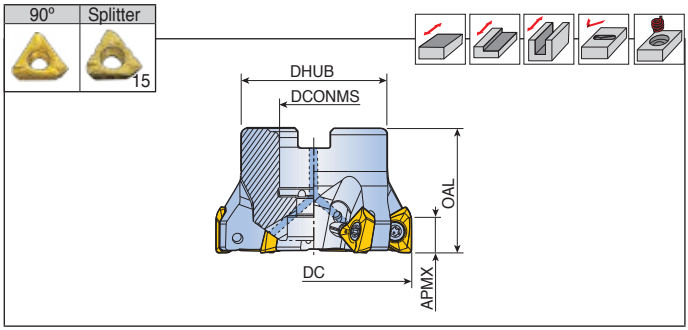
3P TF90-06/10/15

MILLRUSH

Face mills







Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
3P TF90-	632-16R-06	6	32	16	30	32	4.7	●	A	0.1	SH M8x30	3PK(H)T 0603... E216
	732-16R-06	7	32	16	30	32	4.7	●	A	0.1	SH M8x30	
	735-16R-06	7	35	16	30	35	4.7	●	A	0.1	SH M8x30	
	840-16R-06	8	40	16	38	40	4.7	●	A	0.2	SH M8x30	
	840-22R-06	8	40	22	38	40	4.7	●	A	0.2	SH M10x30	
3P TF90-	540-16R-10	5	40	16	38	40	7	●	A	0.3	SH M8x30	3PK(H)T 1004... E216
	640-16R-10	6	40	16	38	40	7	●	A	0.3	SH M8x30	
	650-22R-10	6	50	22	45	40	7	●	A	0.4	SH M10x30	
	750-22R-10	7	50	22	45	40	7	●	A	0.4	SH M10x30	
	663-22R-10	6	63	22	45	40	7	●	A	0.5	SH M10x30	
	863-22R-10	8	63	22	47	40	7	●	A	0.5	SH M10x30	
	963-22R-10	9	63	22	47	40	7	●	A	0.5	SH M10x30	
3P TF90-	450-22R-15	4	50	22	45	40	11	●	A	0.3	SH M10x30	3PK(H)T 1505... E216-217
	550-22R-15	5	50	22	45	40	11	●	A	0.3	SH M10x30	
	463-22R-15-B	4	63	22	47	40	11	●	A	0.5	SH M10x30	
	663-22R-15	6	63	22	47	40	11	●	A	0.5	SH M10x30	
	480-27R-15-B	4	80	27	58	50	11	●	A	1.0	SH M12x35	
	780-27R-15	7	80	27	58	50	11	●	A	1.0	SH M12x35	
	880-27R-15	8	80	27	58	50	11	●	A	1.0	SH M12x35	
	6100-32R-15-B	6	100	32	85	50	11	●	A	1.8	LH M16x35	
	8100-32R-15	8	100	32	85	50	11	●	A	1.9	LH M16x35	
	10100-32R-15	10	100	32	85	50	11	●	A	1.9	LH M16x35	
	7125-40R-15-B	7	125	40	85	63	11	●	A	3.0	SH M20x40	
	10125-40R-15	10	125	40	85	63	11	●	A	3.1	SH M20x40	
	12125-40R-15	12	125	40	85	63	11	●	A	3.1	SH M20x40	
	12160-40R-15	12	160	40	110	63	11	x	C	4.4	-	
	15160-40R-15	15	160	40	110	63	11	x	C	4.4	-	
	15200-60R-15	15	200	60	130	63	11	x	C	6.0	-	
	18200-60R-15	18	200	60	130	63	11	x	C	5.8	-	

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E291-E292

3P TF90-19

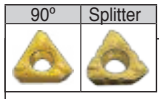
MILLRUSH

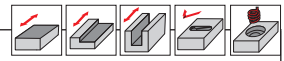
Face mills

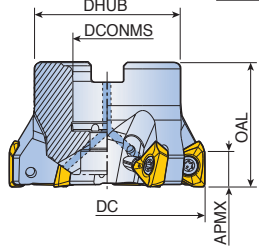












Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
3P TF90- 463-22R-19	4	63	22	47	40	15	●	A	0.4	SH M10x30	3PK(H)T 1906...
663-22R-19	6	63	22	47	40	15	●	A	0.9	SH M10x30	E216-217
480-27R-19	4	80	27	58	50	15	●	A	0.9	SH M12x35	
780-27R-19	7	80	27	58	50	15	●	A	1.0	SH M12x35	
6100-32R-19	6	100	32	85	50	15	●	A	1.8	LH M16x35	
8100-32R-19	8	100	32	85	50	15	●	A	2.6	LH M16x35	
8125-40R-19	8	125	40	85	63	15	●	A	3.0	SH M20x40	
10125-40R-19	10	125	40	85	63	15	●	A	3.1	SH M20x40	
8160-40R-19	8	160	40	110	63	15	x	C	4.2	-	
12160-40R-19	12	160	40	110	63	15	x	C	4.3	-	
10200-60R-19	10	200	60	130	63	15	x	C	6.0	-	
14200-60R-19	14	200	60	130	63	15	x	C	6.0	-	
12250-60R-19	12	250	60	160	63	15	x	C	10.5	-	
16250-60R-19	16	250	60	160	63	15	x	C	10.5	-	

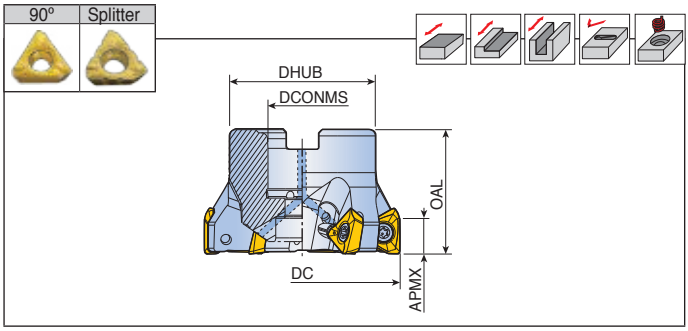
Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E291-E292

3P TF90-15/19

Face mills (Inch bore)







Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
3P TF90-780-25.4R-15	7	80	25.4	70	50	11	•	A	1.0	SH M12x35	3PK(H)T 1505...
880-25.4R-15	8	80	25.4	70	50	11	•	A	1.0	SH M12x35	E216-217
8100-31.75R-15	8	100	31.75	80	50	11	x	B	1.9	-	
10100-31.75R-15	10	100	31.75	80	50	11	x	B	1.9	-	
10125-38.1R-15	10	125	38.1	80	63	11	x	B	3.1	-	
12125-38.1R-15	12	125	38.1	80	63	11	x	B	3.1	-	
12160-50.8R-15	12	160	50.8	100	63	11	x	B	4.4	-	
15160-50.8R-15	15	160	50.8	100	63	11	x	B	4.4	-	
15200-47.625R-15	15	200	47.625	130	63	11	x	C	6.0	-	
3P TF90-480-25.4R-19	4	80	25.4	70	50	15	•	A	0.9	SH M12x35	3PK(H)T 1906...
780-25.4R-19	7	80	25.4	70	50	15	•	A	1.0	SH M12x35	E216-217
6100-31.75R-19	6	100	31.75	80	50	15	x	B	1.8	-	
8100-31.75R-19	8	100	31.75	80	50	15	x	B	2.6	-	
8125-38.1R-19	8	125	38.1	80	63	15	x	B	3.0	-	
10125-38.1R-19	10	125	38.1	80	63	15	x	B	3.1	-	
8160-50.8R-19	8	160	50.8	100	63	15	x	B	4.2	-	
12160-50.8R-19	12	160	50.8	100	63	15	x	B	4.3	-	
10200-47.625R-19	10	200	47.625	130	63	15	x	C	6.0	-	
14200-47.625R-19	14	200	47.625	130	63	15	x	C	6.0	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
3P TF90-06	TS 20043I/HG-P	TD 6P	-		
3P TF90-10	TS 25C065I/HG	TD 8	-		
3P TF90-15	TS 40B100I	TD 15	-		
3P TF90-19	TS 45120I	-	T-T20		

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E291-E292

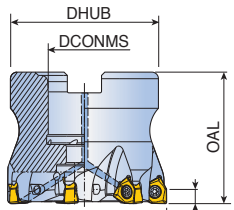
6N TF90-04

MILL2RUSH

Face mills



90°



Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
6N TF90-540-16R-04	5	40	16	38	40	4.1	●	A	0.2	SH M8x30	6NKU 0403...
740-16R-04	7	40	16	38	40	4.1	●	A	0.2	SH M8x30	E222
750-22R-04	7	50	22	45	40	4.1	●	A	0.3	LH M10x25	
950-22R-04	9	50	22	45	40	4.1	●	A	0.3	LH M10x25	
863-22R-04	8	63	22	47	40	4.1	●	A	0.5	LH M10x25	
1063-22R-04	10	63	22	47	40	4.1	●	A	0.5	LH M10x25	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
					
6N TF90-04	TS 25064I	TD 8			

Cutting Condition E271-E273
Arbor Style E274-E275

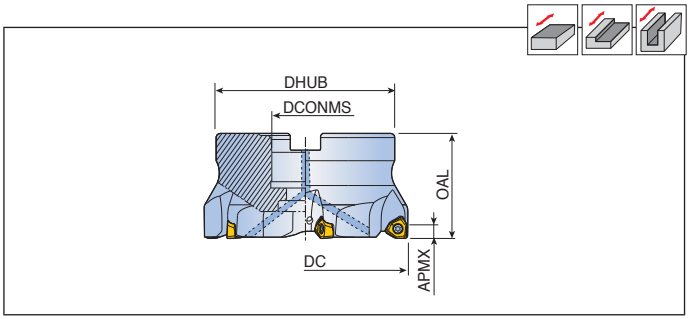
6N TF90-06/09

MILL2RUSH

Face mills



90°



Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
6N TF90-440-16R-06	4	40	16	38	40	6.2	●	A	0.3	SH M8x30	6NGU 0604...
450-22R-06	4	50	22	45	40	6.2	●	A	0.4	LH M10x25	E221
650-22R-06	6	50	22	45	40	6.2	●	A	0.4	LH M10x25	
463-22R-06	4	63	22	47	40	6.2	●	A	0.5	LH M10x25	
663-22R-06	6	63	22	47	40	6.2	●	A	0.5	LH M10x25	
763-22R-06	7	63	22	47	40	6.2	●	A	0.5	LH M10x25	
580-27R-06	5	80	27	58	50	6.2	●	A	1.0	SH M12x35	
780-27R-06	7	80	27	58	50	6.2	●	A	1.0	SH M12x35	
980-27R-06	9	80	27	58	50	6.2	●	A	1.0	SH M12x35	
6100-32R-06	6	100	32	85	50	6.2	●	A	1.9	SH M16x35	
8100-32R-06	8	100	32	85	50	6.2	●	A	1.9	SH M16x35	
11100-32R-06	11	100	32	85	50	6.2	●	A	1.9	SH M16x35	
7125-40R-06	7	125	40	85	63	6.2	●	A	3.2	SH M20x40	
11125-40R-06	11	125	40	85	63	6.2	●	A	3.2	SH M20x40	
14125-40R-06	14	125	40	85	63	6.2	●	A	3.2	SH M20x40	
6N TF90-450-22R-09	4	50	22	45	40	9.2	●	A	0.3	LH M10x25	6NGU 0905...
550-22R-09	5	50	22	45	40	9.2	●	A	0.4	LH M10x25	E221
463-22R-09	4	63	22	47	40	9.2	●	A	0.5	LH M10x25	
663-22R-09	6	63	22	47	40	9.2	●	A	0.5	LH M10x25	
763-22R-09	7	63	22	47	40	9.2	●	A	0.5	LH M10x25	
580-27R-09	5	80	27	58	50	9.2	●	A	1.0	SH M12x35	
780-27R-09	7	80	27	58	50	9.2	●	A	1.1	SH M12x35	
980-27R-09	9	80	27	58	50	9.2	●	A	1.1	SH M12x35	
6100-32R-09	6	100	32	85	50	9.2	●	A	1.9	LH M16x35	
8100-32R-09	8	100	32	85	50	9.2	●	A	1.8	LH M16x35	
11100-32R-09	11	100	32	85	50	9.2	●	A	1.9	LH M16x35	
7125-40R-09	7	125	40	85	63	9.2	●	A	3.1	SH M20x40	
11125-40R-09	11	125	40	85	63	9.2	●	A	3.1	SH M20x40	
14125-40R-09	14	125	40	85	63	9.2	●	A	3.2	SH M20x40	
12160-40R-09	12	160	40	110	63	9.2	x	C	4.3	-	
16160-40R-09	16	160	40	110	63	9.2	x	C	4.3	-	
14200-60R-09	14	200	60	130	63	9.2	x	C	5.9	-	
18200-60R-09	18	200	60	130	63	9.2	x	C	5.9	-	
18250-60R-09	18	250	60	160	63	9.2	x	C	10.7	-	
22250-60R-09	22	250	60	160	63	9.2	x	C	10.8	-	

Cutting Condition E271-E273

Arbor Style E274-E275

TaeguTec

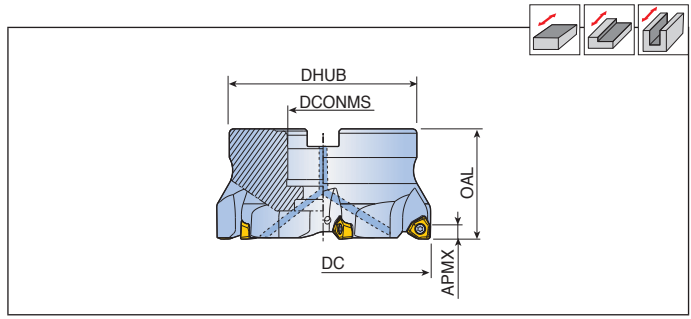
6N TF90-06/09

MILL2RUSH

Face mills (Inch bore)



90°



Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
6N TF90-580-25.4R-06	5	80	25.4	70	50	6.2	●	A	1.0	SH M12x35	6NGU 0604...
780-25.4R-06	7	80	25.4	70	50	6.2	●	A	1.0	SH M12x35	E221
980-25.4R-06	9	80	25.4	70	50	6.2	●	A	1.0	SH M12x35	
6100-31.75R-06	6	100	31.75	80	50	6.2	x	B	1.9	-	
8100-31.75R-06	8	100	31.75	80	50	6.2	x	B	1.9	-	
11100-31.75R-06	11	100	31.75	80	50	6.2	x	B	1.9	-	
7125-38.1R-06	7	125	38.1	80	63	6.2	x	B	3.2	-	
6N TF90-580-25.4R-09	5	80	25.4	58	50	9.2	●	A	1.0	SH M12x35	6NGU 0905...
780-25.4R-09	7	80	25.4	58	50	9.2	●	A	1.1	SH M12x35	E221
980-25.4R-09	9	80	25.4	58	50	9.2	●	A	1.1	SH M12x35	
6100-31.75R-09	6	100	31.75	80	50	9.2	x	B	1.9	-	
8100-31.75R-09	8	100	31.75	80	50	9.2	x	B	1.8	-	
11100-31.75R-09	11	100	31.75	80	50	9.2	x	B	1.9	-	
7125-38.1R-09	7	125	38.1	80	63	9.2	x	B	3.1	-	
11125-38.1R-09	11	125	38.1	80	63	9.2	x	B	3.1	-	
14125-38.1R-09	14	125	38.1	80	63	9.2	x	B	3.2	-	
12160-50.8R-09	12	160	50.8	100	63	9.2	x	B	4.3	-	
16160-50.8R-09	16	160	50.8	100	63	9.2	x	B	4.3	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
6N TF90-06	TS 30085I/HG	TD 9	-		
6N TF90-09	TS 40B100I	-	T-T15		

Cutting Condition E271-E273
Arbor Style E274-E275

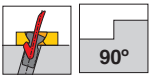
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TaeguTec Industry 4.0

SCRM90TN-18/22

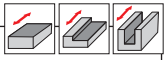
MILL2RUSH

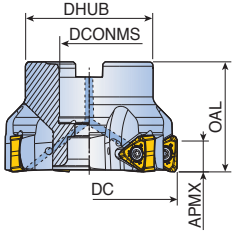
Face mills





90°	Splitter
	18





Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
SCRM90TN 450-16R-18	4	50	16	38	40	13	●	A	0.3	SH M8x30	TNMX 1806...
563-22R-18	5	63	22	47	40	13	●	A	0.5	SH M10x30	E261
580-27R-18	5	80	27	58	50	13	●	A	1.1	SH M12x35	
780-27R-18	7	80	27	58	50	13	●	A	1.1	SH M12x35	
6100-32R-18-B	6	100	32	85	50	13	●	A	2.0	SH M16x35	
8100-32R-18	8	100	32	85	50	13	●	A	2.0	SH M16x35	
7125-40R-18-B	7	125	40	85	63	13	●	A	3.4	SH M20x40	
10125-40R-18	10	125	40	85	63	13	●	A	3.3	SH M20x40	
10160-40R-18	10	160	40	110	63	13	x	C	4.5	-	
14160-40R-18	14	160	40	110	63	13	x	C	4.5	-	
16200-60R-18	16	200	60	130	63	13	x	C	6.2	-	
SCRM90TN 350-16R-22	3	50	16	38	40	15	●	A	0.3	SH M8x30	TNM(G)X 2207...
463-22R-22	4	63	22	47	40	15	●	A	0.4	SH M10x30	E261
580-27R-22	5	80	27	58	50	15	●	A	0.9	SH M12x35	
6100-32R-22	6	100	32	85	50	15	●	A	1.8	SH M16x35	
8125-40R-22	8	125	40	85	63	15	●	A	3.0	SH M20x40	
10160-40R-22	10	160	40	110	63	15	x	C	4.2	-	
12200-60R-22	12	200	60	130	63	15	x	C	6	-	
14250-60R-22	14	250	60	160	63	15	x	C	10.6	-	

Cutting Condition E271-E273
Arbor Style E274-E275

TaeguTec

SCRM90TN

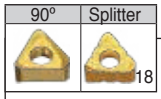
MILL2RUSH

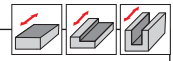
Face mills (Inch bore)

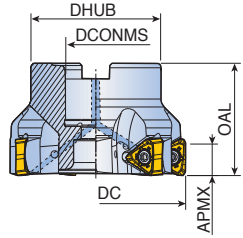












Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
SCRM90TN 580-25.4R-18	5	80	25.4	70	50	13	•	A	1.1	SH M12x35	TNMX 1806...
780-25.4R-18	7	80	25.4	70	50	13	•	A	1.1	SH M12x35	E261
6100-31.75R-18-B	6	100	31.75	80	50	13	x	B	2.0	-	
8100-31.75R-18	8	100	31.75	80	50	13	x	B	2.0	-	
7125-38.1R-18-B	7	125	38.1	80	63	13	x	B	3.4	-	
10125-38.1R-18	10	125	38.1	80	63	13	x	B	3.3	-	
10160-50.8R-18	10	160	50.8	100	63	13	x	B	4.5	-	
14160-50.8R-18	14	160	50.8	100	63	13	x	B	4.5	-	
16200-47.625R-18	16	200	47.625	130	63	13	x	C	6.2	-	
SCRM90TN 580-25.4R-22	5	80	25.4	70	50	15	•	A	0.9	SH M12x35	TNM(G)X
6100-31.75R-22	6	100	31.75	80	50	15	x	B	1.8	-	2207...
8125-38.1R-22	8	125	38.1	80	63	15	x	B	3.0	-	E261

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
					
SCRM90TN-18	TS 40B100I	T-T15			
SCRM90TN-22	TS 45I20I	T-T20			

Cutting Condition E271-E273
Arbor Style E274-E275

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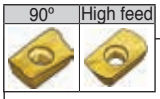
TFM90AX-06/2S-TFM90AP-09

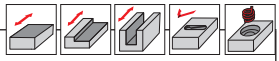
CHASEMILL

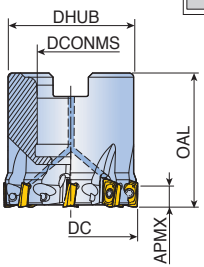
Face mills



90°







Designation			Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
			DC	DCONMS	DHUB	OAL	APMX					
TFM90AX	**832-16R-06**	8	32	16	30	32	5.5	•	A	0.1	SH M8x25	AXM(C)T 0602... E230-E231
	1040-16R-06	10	40	16	38	40	5.5	•	A	0.2	SH M8x25	
	1040-22R-06	10	40	22	38	40	5.5	•	A	0.2	SH M10x30	
2S-TFM90AP	**540-16R-09**	5	40	16	38	40	8.8	•	A	0.3	SH M8x30	APK(C)T 09T3... E225,E230
	640-16R-09	6	40	16	38	40	8.8	•	A	0.2	SH M8x30	
	550-22R-09-B	5	50	22	45	40	8.8	•	A	0.3	SH M10x30	
	650-22R-09	6	50	22	45	40	8.8	•	A	0.3	SH M10x30	
	750-22R-09	7	50	22	45	40	8.8	•	A	0.3	SH M10x30	
	863-22R-09	8	63	22	47	40	8.8	•	A	0.5	SH M10x30	
	1080-27R-09	10	80	27	58	50	8.8	•	A	1.1	SH M12x35	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
TFM90AX	TS 18041I/HG	TD 6P			
2S-TFM90AP	TS 25075I/HG	TD 8			

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E314-E320

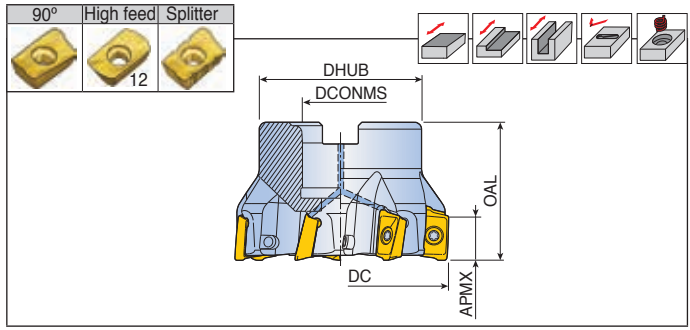
TFM90AP-12/17

CHASEMILL

Face mills



90°



Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
TFM90AP 440-16R-12	4	40	16	38	40	12	●	A	0.2	SH M8x25	APK(C)T 1204... E226,E230
540-16R-12	5	40	16	38	40	12	●	A	0.2	SH M8x25	
550-22R-12	5	50	22	45	40	12	●	A	0.3	SH M10x30	
650-22R-12	6	50	22	45	40	12	●	A	0.3	SH M10x30	
563-22R-12	5	63	22	47	40	12	●	A	0.5	SH M10x30	
663-22R-12	6	63	22	47	40	12	●	A	0.5	SH M10x30	
763-22R-12	7	63	22	47	40	12	●	A	0.5	SH M10x30	
680-27R-12	6	80	27	58	50	12	●	A	1.0	SH M10x25	
880-27R-12	8	80	27	58	50	12	●	A	1.0	SH M10x25	
TFM90AP 440-16R-17	4	40	16	38	40	16.1	●	A	0.3	SH M8x30	APK(C)T 1705/1706... E227-E228
350-22R-17-B	3	50	22	45	40	16.1	●	A	0.4	SH M10x30	
450-22R-17-B	4	50	22	45	40	16.1	●	A	0.3	SH M10x30	
550-22R-17	5	50	22	45	40	16.1	●	A	0.4	SH M10x30	
463-22R-17-B	4	63	22	47	40	16.1	●	A	0.5	SH M10x30	
663-22R-17	6	63	22	47	50	16.1	●	A	0.5	SH M10x30	
480-27R-17-B	4	80	27	58	50	16.1	●	A	0.8	SH M12x35	
680-27R-17	6	80	27	58	50	16.1	●	A	0.9	SH M12x35	
780-27R-17	7	80	27	58	50	16.1	●	A	0.9	SH M12x35	
6100-32R-17-B	6	100	32	85	50	16.1	●	A	1.3	LH M16x35	
8100-32R-17	8	100	32	85	50	16.1	●	A	1.5	LH M16x35	
7125-40R-17-B	7	125	40	85	63	16.1	●	A	2.9	SH M20x40	
8125-40R-17	8	125	40	85	63	16.1	●	A	3.0	SH M20x40	
9125-40R-17	9	125	40	85	63	16.1	●	A	3.1	SH M20x40	
8160-40R-17-B	8	160	40	110	63	16.1	x	C	4.1	-	
10160-40R-17	10	160	40	110	63	16.1	x	C	4.2	-	
12200-60R-17	12	200	60	130	63	16.1	x	C	6.1	-	

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E314-E320

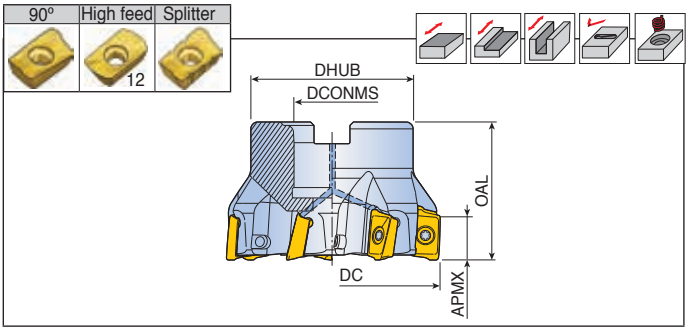
TFM90AP-12/17

CHASEMILL

Face mills (Inch bore)



90°



Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX						
TFM90AP 880-25.4R-12	8	80	25.4	70	50	12		•	A	1.0	SH M12x30	APK(C)T 1204... E226,E230
TFM90AP 663-25.4R-17	6	63	25.4	45	40	16.1		•	A	0.5	LM M12x30	APK(C) T 1705/1706... E227-E228
780-25.4R-17	7	80	25.4	70	50	16.1		•	A	0.9	SH M12x35	
8100-31.75R-17	8	100	31.75	80	50	16.1		x	B	1.5	-	
9125-38.1R-17	9	125	38.1	80	63	16.1		x	B	3.1	-	
10160-50.8R-17	10	160	50.8	100	63	16.1		x	B	4.2	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
TFM90AP-12	TS 35A088I/HG	TD 10P	-		
TFM90AP-17 (Ø40-Ø63)	TS 40093I/HG	-	T-T15		
TFM90AP-17 (Ø80-)	TS 40120I/HG	-	T-T15		

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E314-E320

TaeguTec

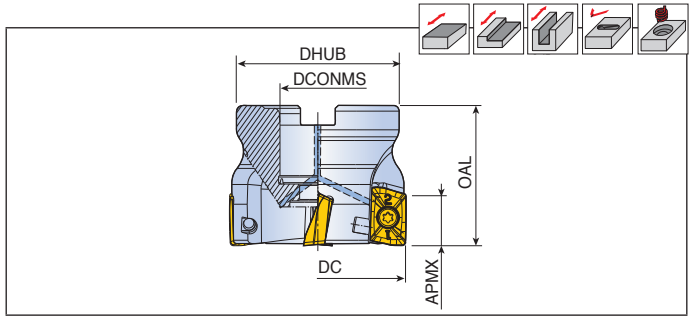
2S-TFM90AP-19

CHASEMILL

Face mills



90°



Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
2S-TFM90AP350-22R-19	3	50	22	45	45	17.9	●	A	0.3	LH M10x35	APKT 1907...
463-22R-19	4	63	22	47	40	17.9	●	A	0.7	SH M10x30	E229
463-27R-19	4	63	27	58	50	17.9	●	A	0.7	SH M12x35	
680-27R-19	6	80	27	58	50	17.9	●	A	1.1	SH M12x35	
7100-32R-19	7	100	32	85	50	17.9	●	A	1.9	SH M16x35	
6125-40R-19	6	125	40	85	63	17.9	●	A	3.0	SH M20x40	
8125-40R-19	8	125	40	85	63	17.9	●	A	3.0	SH M20x40	
10160-40R-19	10	160	40	110	63	17.9	x	C	4.2	-	
12200-60R-19	12	200	60	130	63	17.9	x	C	6.0	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
2S-TFM90AP-19	TS 50115I	T-T20			

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E314-E320

ADVANCE MACHINING
TaeguTec Industry 4.0

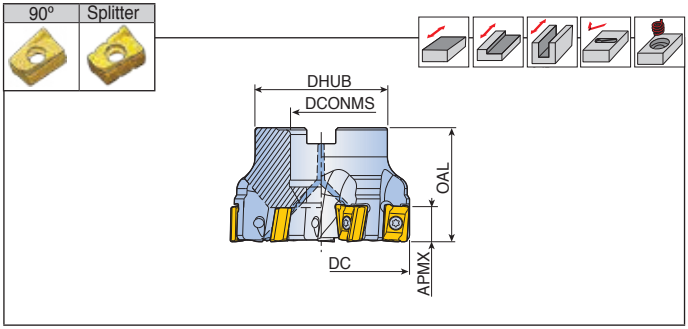
TFM90AN-11/16

CHASE2MILL

Face mills



90°



Designation			Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
			DC	DCONMS	DHUB	OAL	APMX					
TFM90AN	**440-16R-11**	4	40	16	38	40	11	●	A	0.2	SH M8x30	ANM(H)X 1106...
	450-22R-11	4	50	22	45	40	11	●	A	0.3	SH M10x30	E224
	650-22R-11	6	50	22	45	40	11	●	A	0.3	SH M10x30	
	563-22R-11	5	63	22	47	40	11	●	A	0.6	SH M10x30	
	763-22R-11	7	63	22	47	40	11	●	A	0.6	SH M10x30	
	880-27R-11	8	80	27	58	50	11	●	A	1.1	SH M12x35	
	1080-27R-11	10	80	27	58	50	11	●	A	1.1	SH M12x35	
	9100-32R-11	9	100	32	85	50	11	●	A	2.0	SH M16x35	
	12100-32R-11	12	100	32	85	50	11	●	A	2.0	SH M16x35	
	10125-40R-11	10	125	40	85	63	11	●	A	3.3	SH M20x40	
	14125-40R-11	14	125	40	85	63	11	●	A	3.4	SH M20x40	
TFM90AN	**350-22R-16**	3	50	22	45	40	15	●	A	0.4	SH M10x30	ANM(H)X 1607...
	450-22R-16	4	50	22	45	40	15	●	A	0.4	SH M10x30	E224
	463-22R-16	4	63	22	47	40	15	●	A	0.5	SH M10x30	
	663-22R-16	6	63	22	47	40	15	●	A	0.5	SH M10x30	
	580-27R-16	5	80	27	58	50	15	●	A	0.8	SH M12x35	
	780-27R-16	7	80	27	58	50	15	●	A	0.9	SH M12x35	
	5100-32R-16	5	100	32	85	50	15	●	A	1.3	SH M16x35	
	8100-32R-16	8	100	32	85	50	15	●	A	1.5	SH M16x35	
	7125-40R-16	7	125	40	85	63	15	●	A	3.9	SH M20x40	
	10125-40R-16	10	125	40	85	63	15	●	A	3.7	SH M20x40	
	8160-40R-16	8	160	40	110	63	15	x	C	5.0	-	
	12160-40R-16	12	160	40	110	63	15	x	C	5.3	-	
	14200-60R-16	14	200	60	130	63	15	x	C	7.0	-	

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E321

TFM90AN-11/16

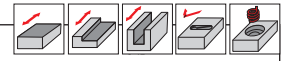
CHASE2MILL

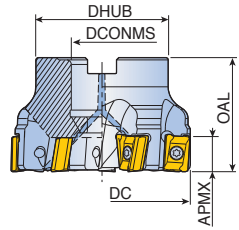
Face mills (Inch bore)



90°

90°	Splitter
	





Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
TFM90AN	**880-25.4R-11**	8	80	25.4	70	50	11	•	A	1.1	SH M12x35	ANM(H)X 1106... E224
TFM90AN	**580-25.4R-16**	5	80	25.4	70	50	15	•	A	0.8	SH M12x35	ANM(H)X 1607... E224
	780-25.4R-16	7	80	25.4	70	50	15	•	A	0.9	SH M12x35	
	5100-31.75R-16	5	100	31.75	80	50	15	x	B	1.3	-	
	8100-31.75R-16	8	100	31.75	80	50	15	x	B	1.5	-	
	7125-38.1R-16	7	125	38.1	80	63	15	x	B	3.9	-	
	10125-38.1R-16	10	125	38.1	80	63	15	x	B	3.7	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
					
TFM90AN-11	TS 35A088I/HG	TD 10P	-		
TFM90AN-16	TS 40120I	-	T-T15		

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E321

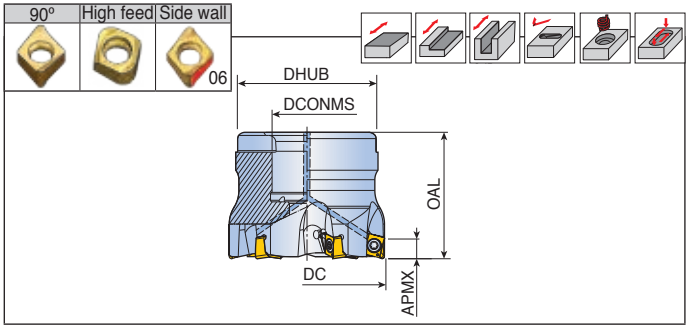
4N TF90-04/06/09

CHASE4MILL

Face mills



90°



Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
4N TF90- 832-16R-04	8	32	16	30	32	3.5	•	A	0.1	SH M8x25	4NKT 0402....
1040-16R-04	10	40	16	38	40	3.5	•	A	0.2	SH M8x25	E218-E219
4N TF90- 432-16R-06	4	32	16	30	32	6.0	•	A	0.1	SH M8x25	4NK(H)T 0603....
532-16R-06	5	32	16	30	32	6.0	•	A	0.1	SH M8x25	E218-E219
540-16R-06	5	40	16	38	40	6.0	•	A	0.3	SH M8x25	
640-16R-06	6	40	16	38	40	6.0	•	A	0.3	SH M8x25	
650-22R-06	6	50	22	45	40	6.0	•	A	0.4	SH M10x30	
750-22R-06	7	50	22	47	40	6.0	•	A	0.4	SH M10x30	
763-22R-06	7	63	22	47	40	6.0	•	A	0.6	SH M10x30	
863-22R-06	8	63	22	47	40	6.0	•	A	0.6	SH M10x30	
4N TF90- 540-16R-09	5	40	16	38	40	8.0	•	A	0.3	SH M8x25	4NK(H)T 0904...
650-22R-09	6	50	22	45	40	8.0	•	A	0.3	LH M10x25	E218-E219
763-22R-09	7	63	22	47	40	8.0	•	A	0.5	LH M10x25	
980-27R-09	9	80	27	58	50	8.0	•	A	1.1	SH M12x35	

- Cutter body for '4NKT 040212R-HF' insert should be modified with body corner radius 1.2 mm
- Cutter body for '4NKT 060320R-HF' and '4NHT 060320R-F' inserts should be modified with body corner radius 2.0 mm
- Cutter body for '4NKT 090432R-HF' insert should be modified with body corner radius 3.2 mm
- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench		Wrench handle	
4N TF90-04	TS 18041I/HG	TD 6P	-	-	
4N TF90-06	TS 30B068I/HG	TD 8	-	-	
4N TF90-09	TS 35A088I/HG	-	TBLD T10P-W6	THND 6W	

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E293-E313

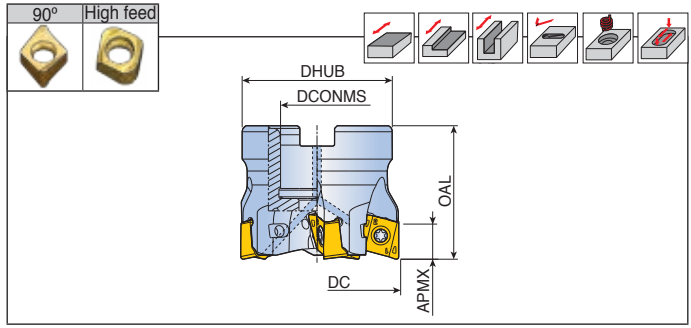
4N TF90-11/14

CHASE4MILL

Face mills



90°



Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
4N TF90- 440-16R-11	4	40	16	38	40	10.5	●	A	0.2	SH M8x30	4NKT 1106...
450-22R-11	4	50	22	45	40	10.5	●	A	0.3	LH M10x25	E218-E219
550-22R-11	5	50	22	45	40	10.5	●	A	0.3	LH M10x25	
463-22R-11	4	63	22	47	40	10.5	●	A	0.6	LH M10x25	
663-22R-11	6	63	22	47	40	10.5	●	A	0.5	LH M10x25	
480-27R-11	4	80	27	58	50	10.5	●	A	1.1	SH M12x35	
680-27R-11	6	80	27	58	50	10.5	●	A	1.0	SH M12x35	
880-27R-11	8	80	27	58	50	10.5	●	A	1.0	SH M12x35	
9100-32R-11	9	100	32	85	50	10.5	●	A	1.9	SH M16x35	
4N TF90- 450-22R-14	4	50	22	45	45	13.8	●	A	0.4	SH M10x25	4NKT 1407...
463-22R-14	4	63	22	47	45	13.8	●	A	0.6	SH M10x25	E218-E219
663-22R-14	6	63	22	47	45	13.8	●	A	0.6	SH M10x25	
580-27R-14	5	80	27	58	50	13.8	●	A	1.0	SH M12x35	
780-27R-14	7	80	27	58	50	13.8	●	A	1.0	SH M12x35	
8100-32R-14	8	100	32	85	50	13.8	●	A	1.9	SH M16x35	

- Cutter body for '4NKT 110640R-HF' insert should be modified with body corner radius 4.0 mm
- Cutter body for '4NKT 140750R-HF' insert should be modified with body corner radius 5.0 mm
- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

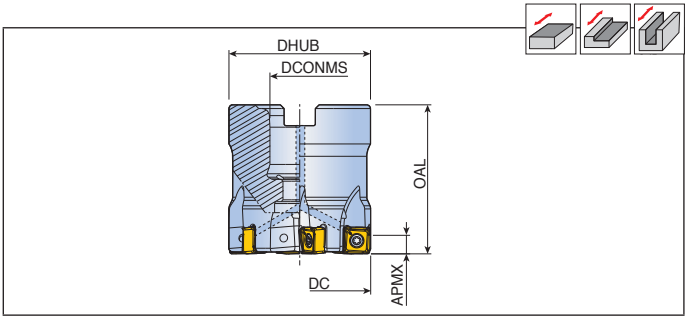
Designation	Screw	Wrench	Wrench handle		
4N TF90-11	TS 40093I/HG	TBLD T15-W6	SW6-T		
4N TF90-14	TS 50A121I/HG	TBLD T20-W6	SW6-T		

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E293-E313

8D-TF90-07

Face mills





90°

Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
8D-TF90-432-16R-07	4	32	16	30	32	5.0	●	A	0.1	SH M8x25	SQKU 0703...
640-16R-07	6	40	16	38	40	5.0	●	A	0.3	SH M8x25	E257
650-22R-07	6	50	22	45	40	5.0	●	A	0.4	SH M10x30	
850-22R-07	8	50	22	45	40	5.0	●	A	0.4	SH M10x30	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

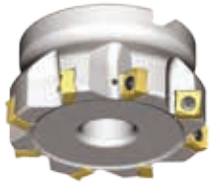
Designation	Screw	Wrench			
8D-TF90-07	TS 25D060/HG-P	TD 7P			

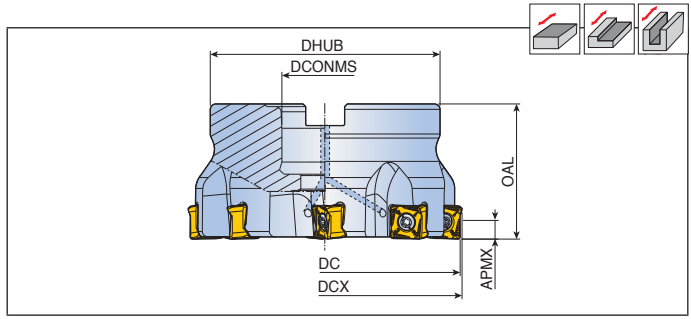
Cutting Condition E271-E273
Arbor Style E274-E275

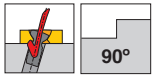
8D-TF90-12

CHASE8MILL

Face mills







Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX					
8D-TF90-450-22R-12	4	50	51.3	22	45	40	8.0	●	A	0.3	SH M10x30	SQK(H)U 1206... E257
650-22R-12	6	50	51.3	22	45	40	8.0	●	A	0.4	SH M10x30	
563-22R-12	5	63	64.3	22	47	40	8.0	●	A	0.5	SH M10x30	
863-22R-12	8	63	64.3	22	47	40	8.0	●	A	0.6	SH M10x30	
680-27R-12	6	80	81.3	27	58	50	8.0	●	A	1.1	SH M12x35	
1180-27R-12	11	80	81.3	27	58	50	8.0	●	A	1.2	SH M12x35	
8100-32R-12	8	100	101.3	32	66	50	8.0	●	A	1.6	SH M16x35	
14100-32R-12	14	100	101.3	32	66	50	8.0	●	A	1.7	SH M16x35	
10125-40R-12	10	125	126.3	40	85	63	8.0	●	A	3.4	SH M20x40	
18125-40R-12	18	125	126.3	40	85	63	8.0	●	A	3.5	SH M20x40	
12160-40R-12	12	160	161.3	40	110	63	8.0	x	C	4.7	-	
22160-40R-12	22	160	161.3	40	110	63	8.0	x	C	4.9	-	

• DC: Cutting diameter • DCX: Cutting diameter maximum
• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench	Wrench handle		
8D-TF90-12	TS 40M100/HG	TBLD T15-W6	SW6-T		

Cutting Condition E271-E273
Arbor Style E274-E275

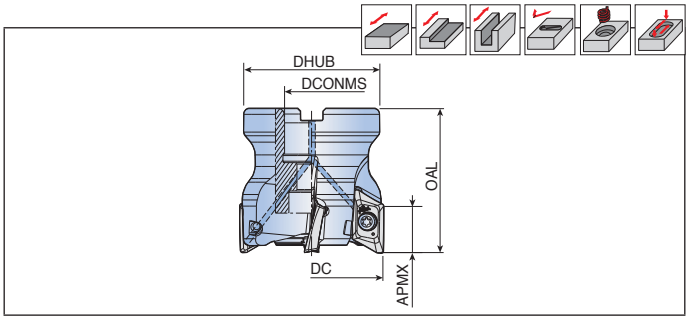
ADVANCE MACHINING
TaeguTec Industry 4.0

TFM90XEV-16/22

CHASEALU

Face mills





90°

Designation		Dimension (mm)					Coolant hole	Arbor style	Max RPM	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX						
TFM90XEV 340-16R-16	3	40	16	38	50	16	●	A	41,200	0.2	SH M8x35-C	XEVT 1605... E264
450-22R-16	4	50	22	45	50	16	●	A	36,800	0.3	SH M10x30-C	
563-22R-16	5	63	22	47	50	16	●	A	32,700	0.5	SH M10x30-C	
580-27R-16	5	80	27	58	50	16	●	A	29,000	0.9	LH M12x30-C	
680-27R-16	6	80	27	58	50	16	●	A	29,000	0.8	LH M12x30-C	
6100-32R-16	6	100	32	66	63	16	●	A	26,000	1.6	SH M16x35-C	
7125-40R-16	7	125	40	85	63	16	●	A	23,200	2.5	SH M20x40-C	
8160-40R-16	8	160	40	110	63	16	x	C	20,000	3.8	-	
10200-60R-16	10	200	60	130	63	16	x	C	18,300	5.3	-	
TFM90XEV 350-22R-22	3	50	22	45	55	21	●	A	31,400	0.4	SH M10x30-C	XEVT 2206... E264
463-22R-22	4	63	22	47	55	21	●	A	28,000	0.6	SH M10x30-C	
580-27R-22	5	80	27	58	55	21	●	A	24,800	1.0	LH M12x30-C	
6100-32R-22	6	100	32	85	63	21	●	A	22,200	2.1	SH M16x35-C	
7125-40R-22	7	125	40	85	63	21	●	A	19,900	2.8	SH M20x40-C	
10200-60R-22	10	200	60	124	63	21	x	C	15,700	5.9	-	

• Cutter body for inserts with corner radii more than 3.2mm (XEVT 16) and 3.0mm (XEVT 22) should be modified as follows: body "RE"=insert "RE"-0.3mm

Spare parts

Designation	Screw	Wrench			
					
TFM90XEV-16	TS 40093I/HG	T-T15			
TFM90XEV-22	TS 50115I	T-T20			

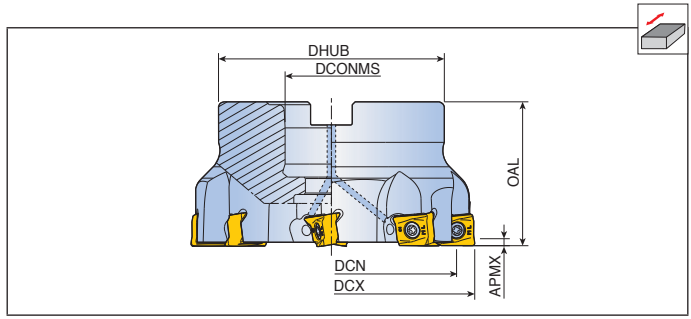
Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E322-E326

TaeguTec

4W-TF90-12

Face mills for finishing





Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DCN	DCONMS	DHUB	OAL	APMX					
4W-TF90-550-22R-12	5	50	38.9	22	45	40	0.5	●	A	0.4	SH M10x30-C	4WHU 1207... E220
663-22R-12	6	63	50.9	22	47	40	0.5	●	A	0.5	SH M10x30-C	
880-27R-12	8	80	66.9	27	58	50	0.5	●	A	1.1	SH M12x35-C	
8100-32R-12	8	100	86.9	32	66	50	0.5	●	A	1.6	SH M16x35-C	
10125-40R-12	10	125	110.9	40	85	63	0.5	●	A	3.1	SH M20x40-C	
10160-40R-12	10	160	145.9	40	110	63	0.5	x	C	4.1	-	

• DCN: Cutting diameter minimum • DCX: Cutting diameter maximum

Spare parts

Designation	Screw	Wrench	Wrench handle		
4W-TF90-12	TS 40A115I	TBLD T15-W6	SW6-T		

Cutting Condition E271-E273
Arbor Style E274-E275

TFM90SNS-12

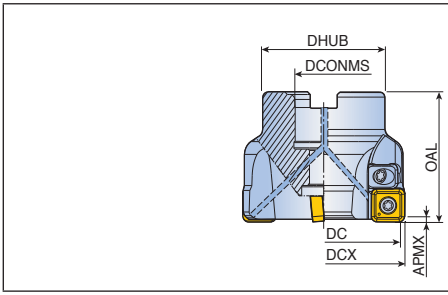
CHASE2QUAD

Face mills for finishing









Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFM90SNS 350-22R-12	3	50	43.35	22	45	50	1.0	●	A	0.5	SH M10x40	SNEX 1204... SNET 1205... E251
463-22R-12	4	63	56.35	22	47	50	1.0	●	A	0.7	SH M10x40	
680-27R-12	6	80	73.35	27	58	50	1.0	●	A	1.0	SH M12x35	
8100-32R-12	8	100	93.35	32	66	63	1.0	●	A	2.0	SH M16x30	
12100-32R-12	12	100	93.35	32	66	63	1.0	●	A	2.0	SH M16x30	
10125-40R-12	10	125	118.35	40	85	63	1.0	x	B	2.9	-	
16125-40R-12	16	125	118.35	40	85	63	1.0	x	B	2.9	-	
12160-40R-12	12	160	153.35	40	110	63	1.0	x	C	4.4	-	
20160-40R-12	20	160	153.35	40	110	63	1.0	x	C	4.4	-	
16200-60R-12	16	200	193.35	60	130	63	1.0	x	C	6.0	-	
24200-60R-12	24	200	193.35	60	130	63	1.0	x	C	6.0	-	
30250-60R-12	30	250	243.35	60	160	63	1.0	x	C	10.8	-	

- Recommend to very stable machining condition at cast iron & steel
- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Adj. wedge	Adj. screw	Wrench	
					
TFM90SNS-12	TS 35C110I	AJS 1010R	AWS 0620	T-T15	

Cutting Condition E271-E273
Arbor Style E274-E275
Technical Data E279-E280

TQ90SNS-12

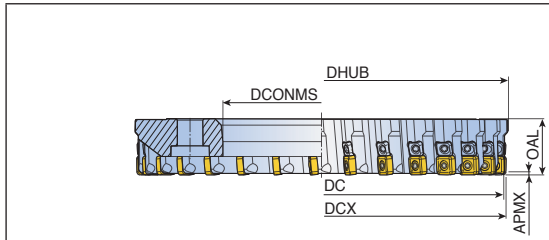
CHASE2QUAD

Quick change type face mills for finishing









Designation			Dimension (mm)						Kg	Adaptor	Insert
			DCX	DC	DCONMS	DHUB	OAL	APMX			
TQ90SNS	**20250R-12**	20	250	243.35	133.35	253	38	1.0	7.5	QA 10 K/M	SNEX 1204... SNET 1205... E251
	30250R-12	30	250	243.35	133.35	253	38	1.0	7.5	QA 10 K/M	
	36315R-12	36	315	308.35	146.05	317	38	1.0	14.0	QA 12 K/M	
	32400R-12	32	400	393.35	254	402	38	1.0	16.0	QA 16 K/M	

• Recommend to very stable machining condition at cast iron & steel

Spare parts

Designation	Screw	Adj. wedge	Adj. screw	Wrench	
TQ90SNS-12	TS 35C110I	AJS 1010R	AWS 0620	T-T15	

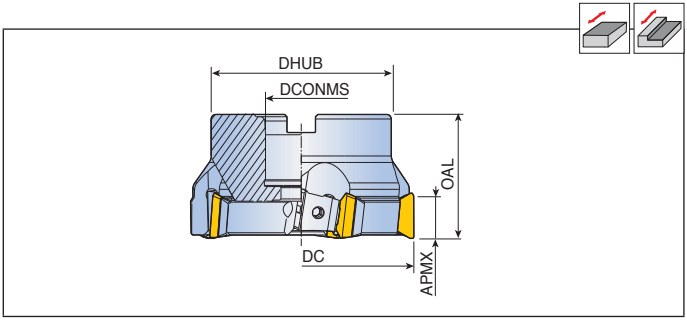
Cutting Condition E271-E273
Technical Data E276
Technical Data E279-E280

LM90TP-22

LIONMILL

Face mills





90°

Designation		Dimension (mm)					Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX				
LM90TP 480-25.4R-22	4	80	25.4	70	50	17.6	A	1.2	SH M12x35	TPKN 2204...
5100-31.75R-22	5	100	31.75	80	55	17.6	A	2.2	SH M16x35	E262
6125-38.1R-22	6	125	38.1	80	63	17.6	B	3.0	-	
8160-50.8R-22	8	160	50.8	100	63	17.6	B	4.7	-	
10200-47.625R-22	10	200	47.625	130	63	17.6	C	6.4	-	
12250-47.625R-22	12	250	47.625	160	63	17.6	C	10.7	-	
14315-47.625R-22	14	315	47.625	220	63	17.6	D	16.7	-	

• Metric bore cutter is available upon request

Spare parts

Designation	Carbide shim	Wedge	Shim screw	Wedge screw	Wrench	Shim screw wrench
LM90TP-22	TSTP 22N	WPA 8	TS 40B100I	TS 80200W TS 80160W(1)	T-W 4	T-T15(2)

Cutting Condition E271-E273
Arbor Style E274-E275

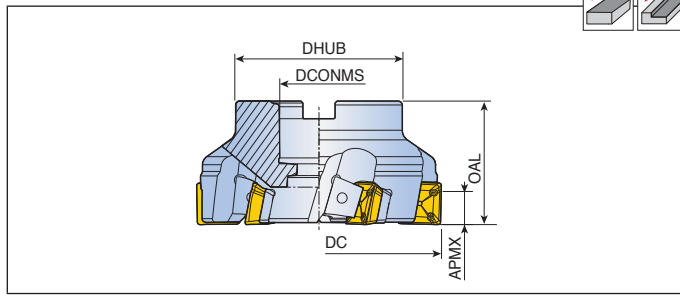
• (1)TS 80160W is for D80 cutter
• The shim screw wrench T-T15(2) shall be ordered separately

LM90SE-21

LIONMILL

Face mills





90°

Designation		Dimension (mm)					Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX				
LM90SE 6125-40R-21	6	125	40	85	63	17.0	A	3.4	SH M20x40	SEKX 2107...
8160-40R-21	8	160	40	110	63	17.0	C	5.3	-	E249
10200-60R-21	10	200	60	130	80	17.0	C	9.6	-	
12200-60R-21	12	200	60	130	80	17.0	C	9.5	-	
12250-60R-21	12	250	60	160	80	17.0	C	16.4	-	
14250-60R-21	14	250	60	160	80	17.0	C	16.4	-	
12315-60R-21	12	315	60	220	80	17.0	D	21.0	-	
LM90SE 6125-38.1R-21	6	125	38.1	85	63	17.0	B	3.4	-	
8160-50.8R-21	8	160	50.8	110	63	17.0	B	5.3	-	
10200-47.625R-21	10	200	47.625	130	80	17.0	C	9.6	-	

Spare parts

Designation	Shim	Shim screw	Wedge	Wedge screw	Wedge screw wrench	Shim screw wrench
LM90SE-21	TSSE 21N-ST	TS 50C130I/ HG	WPA 8-SE16	TS 80160W TS 80200W	T-W 4	T-T20 (1)

Cutting Condition E271-E273

Arbor Style E274-E275

- The shim screw wrench(1) shall be ordered separately
- Wedge screw TS 80160W : Diameter 125 – 200 mm
  TS 80200W : Diameter 250 – 315 mm

ADVANCE MACHINING Industry 4.0 TaeguTec

TFM90SN/TFM88SN-13

CHASE2QUAD

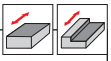
Face mills

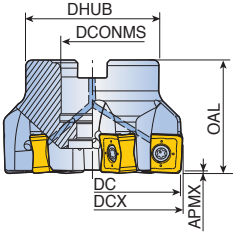












Designation			Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
			DC	DCX	DCONMS	DHUB	OAL	APMX					
TFM90SN	**550-22R-13**	5	50	50.7	22	45	40	12.0	●	A	0.3	SH M10x30	SNGX 1306 ... E253
	663-22R-13	6	63	63.7	22	47	40	12.0	●	A	0.5	SH M10x30	
	780-27R-13	7	80	80.7	27	70	50	12.0	●	A	1.2	SH M12x35	
	980-27R-13*	9	80	80.7	27	70	50	12.0	●	A	1.2	SH M12x35	
	8100-32R-13	8	100	100.8	32	85	50	12.0	●	A	1.9	SH M16x30	
	13100-32R-13*	13	100	100.8	32	85	50	12.0	●	A	1.9	SH M16x30	
	10125-40R-13	10	125	125.8	40	85	63	12.0	x	B	2.8	-	
	16125-40R-13*	16	125	125.8	40	85	63	12.0	x	B	2.8	-	
TFM88SN	**550-22R-13**	5	50	51.2	22	45	40	12.0	●	A	0.3	SH M10x30	SNGX 1306 ZN... E253
	663-22R-13	6	63	64.2	22	47	40	12.0	●	A	0.5	SH M10x30	
	780-27R-13	7	80	81.2	27	70	50	12.0	●	A	1.2	SH M12x35	
	980-27R-13*	9	80	81.2	27	70	50	12.0	●	A	1.2	SH M12x35	
	8100-32R-13	8	100	101.2	32	85	50	12.0	●	A	1.9	SH M16x30	
	11100-32R-13*	11	100	101.2	32	85	50	12.0	●	A	1.9	SH M16x30	
	10125-40R-13	10	125	126.1	40	85	63	12.0	x	B	2.8	-	
	14125-40R-13*	14	125	126.1	40	85	63	12.0	x	B	2.8	-	
	12160-40R-13	12	160	161.1	40	110	63	12.0	x	C	4.2	-	
	18160-40R-13*	18	160	161.1	40	110	63	12.0	x	C	4.2	-	
	14200-60R-13	14	200	201.1	60	130	63	12.0	x	C	6.0	-	
	22200-60R-13*	22	200	201.1	60	130	63	12.0	x	C	6.0	-	

Cutting Condition E271-E273
Arbor Style E274-E275

- *: Fine pitch cutter for cast iron
- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

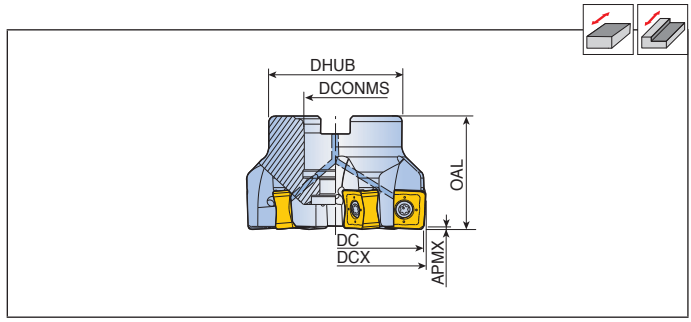
TaeguTec

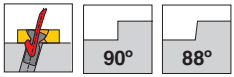
TFM90SN/TFM88SN-13

CHASE2QUAD

Face mills (Inch bore)







Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX					
TFM90SN	**780-25.4R-13**	80	80.7	25.4	70	50	12.0	●	A	1.2	SH M12x35	SNGX 1306 ... E253
	8100-31.75R-13	100	100.8	31.75	80	50	12.0	x	B	1.9	-	
	10125-38.1R-13	125	125.8	38.1	80	63	12.0	x	B	2.8	-	
TFM88SN	**780-25.4R-13**	80	81.2	25.4	70	50	12.0	●	A	1.2	SH M12x35	SNGX 1306 ZN... E253
	980-25.4R-13*	80	81.2	25.4	70	50	12.0	●	A	1.2	SH M12x35	
	8100-31.75R-13	100	101.2	31.75	80	50	12.0	x	B	1.9	-	
	11100-31.75R-13*	100	101.2	31.75	80	50	12.0	x	B	1.9	-	
	10125-38.1R-13	125	126.1	38.1	80	63	12.0	x	B	2.8	-	
	12160-50.8R-13	160	161.1	50.8	100	63	12.0	x	B	4.2	-	

- *: Fine pitch cutter for cast iron
- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
					
TFM90SN	TS 40B100I	T-T15			
TFM88SN	TS 40B100I	T-T15			

Cutting Condition E271-E273
Arbor Style E274-E275

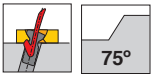
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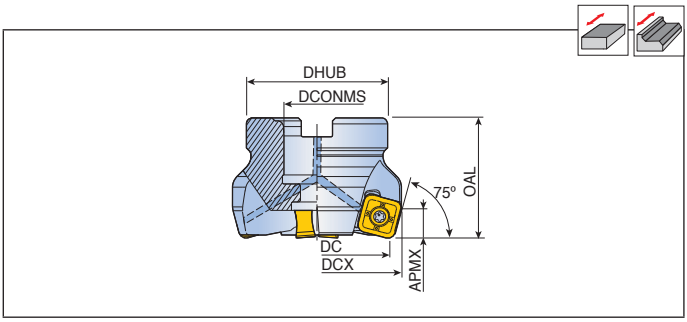
TFM75SN-13

CHASE2QUAD

Face mills







Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX					
TFM75SN	**450-22R-13**	4	50	55.4	22	45	40	9.5	•	A	0.4	LH M10x25	SNM(G)X 1306 EN... SNMX 1306 XTN... E252
	650-22R-13	6	50	55.4	22	45	40	9.5	•	A	0.4	LH M10x25	
	663-22R-13	6	63	68.4	22	47	40	9.5	•	A	0.6	LH M10x25	
	863-22R-13	8	63	68.4	22	47	40	9.5	•	A	0.6	LH M10x25	
	780-27R-13	7	80	85.4	27	70	50	9.5	•	A	1.3	LH M12x30	
	1080-27R-13	10	80	85.4	27	70	50	9.5	•	A	1.3	LH M12x30	
	8100-32R-13	8	100	105.4	32	85	50	9.5	•	A	1.9	LH M16x35	
	12100-32R-13	12	100	105.4	32	85	50	9.5	•	A	2.0	LH M16x35	
	10125-40R-13	10	125	130.3	40	85	63	9.5	•	A	3.2	SH M20x40	
	16125-40R-13	16	125	130.4	40	85	63	9.5	•	A	3.3	SH M20x40	
	12160-40R-13	12	160	165.3	40	110	63	9.5	x	C	4.7	-	
	20160-40R-13	20	160	165.4	40	110	63	9.5	x	C	4.8	-	
	16200-60R-13	16	200	205.3	60	130	63	9.5	x	C	6.4	-	
	22200-60R-13	22	200	205.4	60	130	63	9.5	x	C	6.4	-	
	20250-60R-13	20	250	255.3	60	160	63	9.5	x	C	11.7	-	
TFM75SN	**580-25.4R-13B**	5	80	85.4	25.4	70	50	9.5	•	A	1.3	LH M12x30	
	1080-25.4R-13	10	80	85.4	25.4	70	50	9.5	•	A	1.5	LH M12x30	
	6100-31.75R-13B	6	100	105.4	31.75	80	50	9.5	x	B	1.9	-	
	8125-38.1R-13B	8	125	130.3	38.1	80	63	9.5	x	B	3.2	-	
	12160-50.8R-13B	12	160	165.3	50.8	100	63	9.5	x	B	4.7	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
					
TFM75SN	TS 40B100I	T-T15			

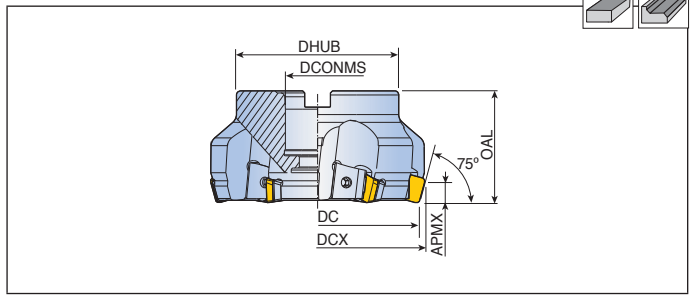
Cutting Condition E271-E273
Arbor Style E274-E275

LM75SP-12/15

LIONMILL

Face mills





75°

Designation		Dimension (mm)						Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX				
LM75SP580-25.4 R-12	5	80	85.4	25.4	70	50	9.5	A	1.5	SH M12x35	SPKN 1203...
6100-31.75R-12	6	100	105.4	31.75	80	55	9.5	A	2.4	LH M16x35	E256
8125-38.1R-12	8	125	130.4	38.1	80	63	9.5	B	3.2	-	
10160-50.8R-12	10	160	165.4	50.8	100	63	9.5	B	5.0	-	
12200-47.625R-12	12	200	205.4	47.625	130	63	9.5	C	7.4	-	
16250-47.625R-12	16	250	255.4	47.625	160	63	9.5	C	10.8	-	
LM75SP580-25.4R-15	5	80	86.97	25.4	70	55	12.5	A	1.5	SH M12x35	SPKN 1504...
5100-31.75R-15	5	100	106.96	31.75	80	55	12.5	A	2.4	LH M16x35	E256
8125-38.1R-15	8	125	131.95	38.1	80	63	12.5	B	3.1	-	
10160-50.8R-15	10	160	166.94	50.8	100	63	12.5	B	5.0	-	
12200-47.625R-15	12	200	206.94	47.625	130	63	12.5	C	6.9	-	
16250-47.625R-15	16	250	256.93	47.625	160	63	12.5	C	10.8	-	
20315-47.625R-15	20	315	321.93	47.625	220	63	12.5	D	17.4	-	

• Metric bore cutter is available upon request

Spare parts

Designation	Carbide shim	Wedge	Shim screw	Wedge screw	Wrench	
						(2)
LM75SP-12	TSSP 12N	WPA 8	TS 40B100I	TS 80200W TS 80160W(1)	T-W 4	T-T15
LM75SP-15	TSSP 15N	WPA 8	TS 40B100I		T-W 4	T-T15

Cutting Condition E271-E273

Arbor Style E274-E275

• (1) TS 80160W is for D80 cutter
• The shim screw wrench T-T15(2) shall be ordered separately

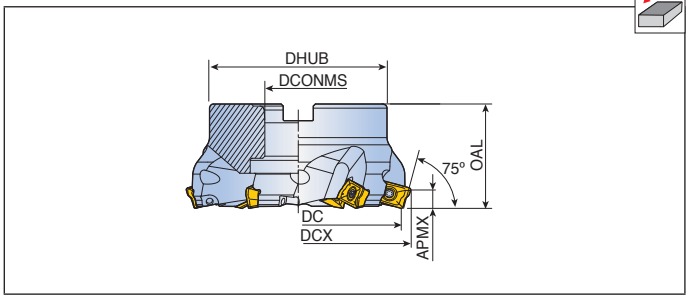
ADVANCE MACHINING
TaeguTec Industry 4.0

TFM75AP-17

CHASEMILL

Face mills





75°

Designation			Dimension (mm)						Arbor style	Kg	Mounting bolt	Insert
			DC	DCX	DCONMS	DHUB	OAL	APMX				
TFM75AP	**580-27R-17**	5	80	87.82	27	58	50	3.9	A	0.8	SH M12x35	APKT 1705 PER-M APKT 1705 PER-EM E228
	6100-32R-17	6	100	107.82	32	85	50	3.9	B	1.3	-	
	7125-40R-17	7	125	132.82	40	85	63	3.9	B	3.5	-	
TFM75AP	**580-25.4R-17**	5	80	87.82	25.4	70	50	3.9	A	0.8	SH M12x35	
	6100-31.75R-17	6	100	107.82	31.75	80	50	3.9	B	1.3	-	
	7125-38.1R-17	7	125	132.82	38.1	80	63	3.9	B	3.5	-	

• Cutter for the other corner of APKT inserts

Spare parts

Designation	Screw	Wrench			
TFM75AP-17	TS 40120I/HG	T-T15			

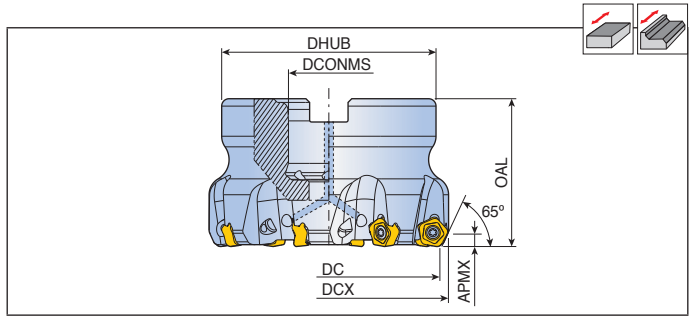
Cutting Condition E271-E273
Arbor Style E274-E275

TFM65PT-05/10

CHASE10MILL

Face mills





65°

Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX					
TFM65PT 640-16R-05	6	40	43.7	16	38	40	3.3	•	A	0.3	SH M8x25	PTKU 0503...
750-22R-05	7	50	53.7	22	45	40	3.3	•	A	0.4	SH M10x30	E242
863-22R-05	8	63	66.7	22	58	40	3.3	•	A	0.7	SH M10x30	
TFM65PT 680-27R-10	6	80	87.4	27	70	50	6.5	•	A	1.2	LH M12x30	PTKU 1006...
8100-32R-10	8	100	107.4	32	85	50	6.5	•	A	1.9	LH M16x35	E242
9125-40R-10	9	125	132.4	40	85	63	6.5	•	A	3.2	SH M20x40	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench		Wrench handle	
TFM65PT-05	TS 25D060/HG-P	TD 7P	-		
TFM65PT-10	TS 50D130/HG-P	-	TBLD T20P-W6	SW6-T	

Cutting Condition E271-E273
Arbor Style E274-E275

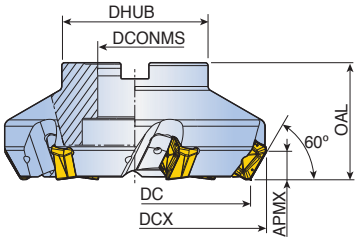
ADVANCE MACHINING Industry 4.0
TaeguTec

LM60SC-21

LIONMILL

Face mills





60°

Designation			Dimension (mm)						Arbor style	Kg	Insert
			DC	DCX	DCONMS	DHUB	OAL	APMX			
LM60SC	**5125-40R-21**	5	125	141.2	40	85	63	13.0	B	4.1	SCKN 2107... E248
	8160-40R-21	8	160	176.1	40	110	63	13.0	C	6.5	
	10160-40R-21	10	160	176.1	40	110	63	13.0	C	6.4	
	10200-60R-21	10	200	216.1	60	130	80	13.0	C	11.8	
	12200-60R-21	12	200	216.1	60	130	80	13.0	C	11.8	
	12250-60R-21	12	250	266	60	160	80	13.0	C	19.2	
	14250-60R-21	14	250	266	60	160	80	13.0	C	19.1	
	16250-60R-21	16	250	266	60	160	80	13.0	C	19.1	
	12315-60R-21	12	315	331	60	220	80	13.0	D	25.0	
	16315-60R-21	16	315	331	60	220	80	13.0	D	25.0	
LM60SC	**5125-38.1R-21**	5	125	141.2	38.1	80	63	13.0	B	4.1	
	10160-50.8R-21	10	160	176.1	50.8	100	63	13.0	B	6.4	
	10200-47.625R-21	10	200	216.1	47.625	130	80	13.0	C	11.8	
	12250-47.625R-21	12	250	266	47.625	160	80	13.0	C	19.2	
	16250-47.625R-21	16	250	266	47.625	160	80	13.0	C	19.1	

Spare parts

Designation	Shim	Shim screw	Wedge	Wedge screw	Wrench	
LM60SC-21	TSSC 21R-ST	TS 50C130I/HG	WSC 8R-21	TS 80200W	T-W 4	T-T20

Cutting Condition E271-E273

Arbor Style E274-E275

• The shim screw wrench(1) shall be ordered separately

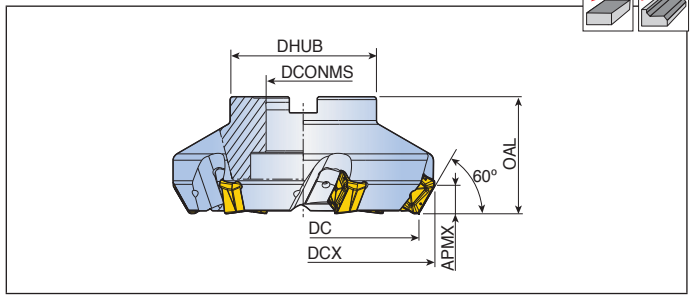
TaeguTec

LM60SC-27

LIONMILL

Face mills





60°

Designation		Dimension (mm)						Arbor style	Kg	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX			
LM60SC 5125-40R-27	5	125	146	40	85	63	18.0	B	4.6	SCKN 2708...
6160-40R-27	6	160	181	40	110	80	18.0	C	8.7	E248
8160-40R-27	8	160	181	40	110	80	18.0	C	8.4	
8200-60R-27	8	200	220.9	60	130	80	18.0	C	12.4	
10200-60R-27	10	200	220.9	60	130	80	18.0	C	12.3	
10250-60R-27	10	250	270.8	60	160	80	18.0	C	19.9	
12250-60R-27	12	250	270.8	60	160	80	18.0	C	19.8	
12315-60R-27	12	315	335.8	60	220	80	18.0	D	26.0	
15315-60R-27	15	315	335.8	60	220	80	18.0	D	25.9	
LM60SC 12250-47.625R-27	12	250	270.8	47.625	160	80	18.0	C	19.8	
12315-47.625R-27	12	315	335.8	47.625	220	80	18.0	D	26.0	

Spare parts

Designation	Shim	Shim screw	Wedge	Wedge screw	Wrench		Wrench handle
						(1)	(2)
LM60SC-27	TSSC 27R-ST	TS 60A130I	WSC 8R	TS 80200W	T-W 4	BLD T25	SW6-T

Cutting Condition E271-E273

Arbor Style E274-E275

• The wrench(1) & wrench handle(2) shall be ordered separately

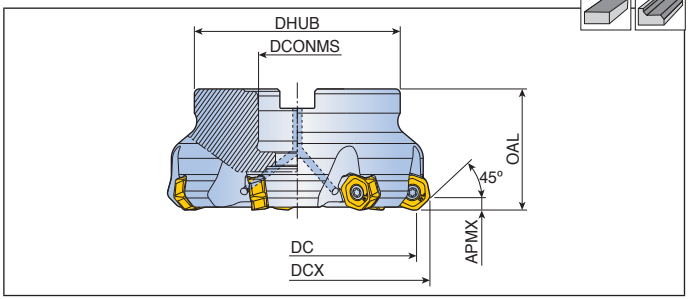
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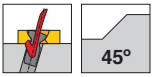
12D-TF45-06

CHASE 12 MILL

Face mills







Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX					
12D-TF45-450-22R-06	4	50	60.8	22	45	40	3.0	●	A	0.5	LH M10x25	HXK(H)U 0605... E237
650-22R-06	6	50	60.8	22	45	40	3.0	●	A	0.5	LH M10x25	
563-22R-06	5	63	73.8	22	47	40	3.0	●	A	0.7	LH M10x25	
763-22R-06	7	63	73.8	22	47	40	3.0	●	A	0.7	LH M10x25	
680-27R-06	6	80	90.8	27	70	50	3.0	●	A	1.5	SH M12x35	
1080-27R-06	10	80	90.8	27	70	50	3.0	●	A	1.5	SH M12x35	
7100-32R-06	7	100	110.8	32	85	50	3.0	●	A	2.2	SH M16x35	
12100-32R-06	12	100	110.8	32	85	50	3.0	●	A	2.2	SH M16x35	
10125-40R-06	10	125	135.8	40	85	63	3.0	●	A	3.6	SH M20x40	
16125-40R-06	16	125	135.8	40	85	63	3.0	●	A	3.6	SH M20x40	
12160-40R-06	12	160	170.8	40	110	63	3.0	x	C	4.9	-	
20160-40R-06	20	160	170.8	40	110	63	3.0	x	C	4.9	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench	Wrench handle		
					
12D-TF45-06	TS 40B100I	TBLD T15-W6	SW6-T		

Cutting Condition E271-E273
Arbor Style E274-E275

12D-TF45-10

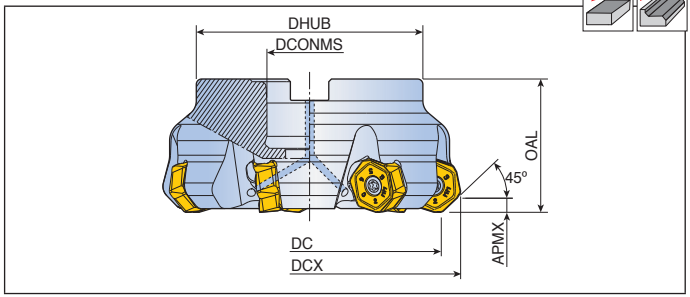
CHASE 12 MILL

Face mills









Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX					
12D-TF45-563-22R-10	5	63	77.5	22	47	50	5.0	●	A	0.9	SH M10x30	HXK(H)U 1007...
763-22R-10	7	63	77.5	22	47	50	5.0	●	A	0.9	SH M10x30	
680-27R-10	6	80	94.5	27	70	50	5.0	●	A	1.6	SH M12x35	
980-27R-10	9	80	94.5	27	70	50	5.0	●	A	1.6	SH M12x35	E237
7100-32R-10	7	100	114.5	32	85	50	5.0	●	A	2.4	LH M16x35	
11100-32R-10	11	100	114.5	32	85	50	5.0	●	A	2.4	LH M16x35	
8125-40R-10	8	125	139.5	40	85	63	5.0	●	A	4.1	SH M20x40	
10125-40R-10	10	125	139.5	40	85	63	5.0	●	A	4.0	SH M20x40	
14125-40R-10	14	125	139.5	40	85	63	5.0	●	A	4.0	SH M20x40	
10160-40R-10	10	160	174.5	40	110	63	5.0	x	C	5.6	-	
16160-40R-10	16	160	174.5	40	110	63	5.0	x	C	5.6	-	
14200-60R-10	14	200	214.5	60	130	63	5.0	x	C	7.9	-	
21200-60R-10	21	200	214.5	60	130	63	5.0	x	C	7.9	-	
16250-60R-10	16	250	264.5	60	160	63	5.0	x	C	12.4	-	
26250-60R-10	26	250	264.5	60	160	63	5.0	x	C	12.4	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench	Wrench handle		
					
12D-TF45-10	TS 50C130I/HG	TBLD T20-W6	SW6-T		

Cutting Condition E271-E273
Arbor Style E274-E275

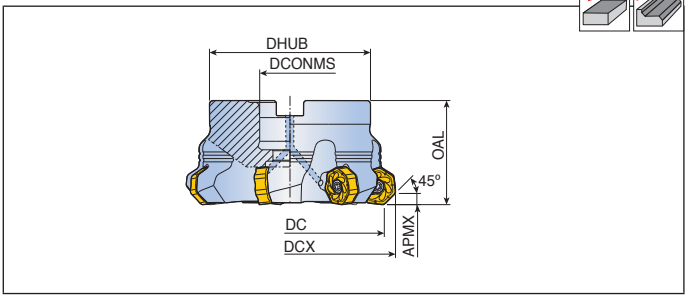
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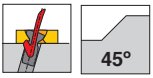
14D-F45XN-06

CHASE2HEPTA

Face mills







Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX					
14D-F45XN550-22R-06	5	50	59.1	22	45	40	3.5	●	A	0.4	LH M10x25	XNM(H)U 0605... E265
563-22R-06	5	63	72.1	22	47	50	3.5	●	A	0.8	SH M10x35	
763-22R-06	7	63	72.1	22	47	50	3.5	●	A	0.8	SH M10x35	
680-27R-06	6	80	89.1	27	70	50	3.5	●	A	1.4	SH M12x35	
980-27R-06	9	80	89.1	27	70	50	3.5	●	A	1.4	SH M12x35	
7100-32R-06	7	100	109.1	32	85	50	3.5	●	A	2.1	SH M16x35	
11100-32R-06	11	100	109.1	32	85	50	3.5	●	A	2.1	SH M16x35	
10125-40R-06	10	125	134.1	40	85	63	3.5	●	A	3.6	SH M20x40	
14125-40R-06	14	125	134.1	40	85	63	3.5	●	A	3.6	SH M20x40	
12160-40R-06	12	160	169.1	40	110	63	3.5	x	C	4.7	-	
16160-40R-06	16	160	169.1	40	110	63	3.5	x	C	4.9	-	
18160-40R-06	18	160	169.1	40	110	63	3.5	x	C	5.0	-	
14D-F45XN763-25.4R-06	7	63	72.1	25.4	47	50	3.5	●	A	0.8	SH M12x30	
980-25.4R-06	9	80	89.1	25.4	70	50	3.5	●	A	1.4	SH M12x35	
11100-31.75R-06	11	100	109.1	31.75	80	50	3.5	●	A	1.9	LH M16x35	
14125-38.1R-06	14	125	134.1	38.1	80	63	3.5	x	B	3.9	-	
											-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
					
14D-F45XN-06	TS 40B100I	T-T15			

Cutting Condition E271-E273

Arbor Style E274-E275

14D-F45XN-09

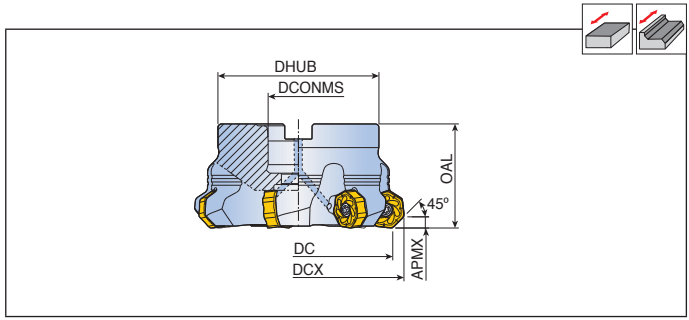
CHASE2HEPTA

Face mills









Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX					
14D-F45XN 563-22R-09	5	63	74.9	22	47	50	5.0	●	A	0.9	SH M10x35	XNM(H)U 0906... E266
663-22R-09	6	63	74.9	22	47	50	5.0	●	A	0.9	SH M10x35	
680-27R-09	6	80	91.9	27	70	50	5.0	●	A	1.4	SH M12x35	
780-27R-09	7	80	91.9	27	70	50	5.0	●	A	1.5	SH M12x35	
7100-32R-09	7	100	112	32	85	55	5.0	●	A	2.4	SH M16x35	
9100-32R-09	9	100	112	32	85	55	5.0	●	A	2.5	SH M16x35	
8125-40R-09	8	125	137	40	85	63	5.0	●	A	3.5	SH M20x40	
10125-40R-09	10	125	137	40	85	63	5.0	●	A	3.6	SH M20x40	
12125-40R-09	12	125	137	40	85	63	5.0	●	A	3.4	SH M20x40	
10160-40R-09	10	160	172	40	110	63	5.0	x	C	4.8	-	
12160-40R-09	12	160	172	40	110	63	5.0	x	C	4.8	-	
14160-40R-09	14	160	172	40	110	63	5.0	x	C	4.8	-	
12200-60R-09	12	200	212	60	130	63	5.0	x	C	6.8	-	
16200-60R-09	16	200	212	60	130	63	5.0	x	C	6.9	-	
16250-60R-09	16	250	262	60	160	63	5.0	x	C	11.5	-	
20250-60R-09	20	250	262	60	160	63	5.0	x	C	11.5	-	
14D-F45XN 680-25.4R-09	6	80	91.9	25.4	70	50	5.0	●	A	1.4	SH M12x35	
7100-31.75R-09	7	100	112	31.75	80	55	5.0	●	A	2.4	SH M16x35	
8125-38.1R-09	8	125	137	38.1	80	63	5.0	x	B	3.5	-	
10160-50.8R-09	10	160	172	50.8	100	63	5.0	x	B	4.8	-	
12200-47.625R-09	12	200	212	47.625	130	63	5.0	x	C	6.8	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
					
14D-F45XN-09	TS 50C130I/HG	T-T20			

Cutting Condition E271-E273
Arbor Style E274-E275

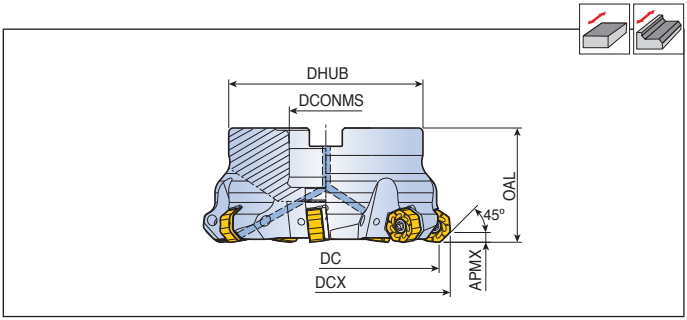
ADVANCE MACHINING
TaeguTec Industry 4.0

14D-F45XNH-06/09

CHASE2HEPTA

Shim type face mills





45°

Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX					
14D-F45XNH 763-22R-06	7	63	72.2	22	47	40	3.5	●	A	0.7	SH M10x25	XNM(H)U 0605... E265
780-27R-06	7	80	89.2	27	70	50	3.5	●	A	1.5	SH M12x35	
880-27R-06	8	80	89.2	27	70	50	3.5	●	A	1.5	SH M12x35	
7100-32R-06	7	100	109.2	32	85	50	3.5	●	A	2.2	SH M16x35	
8100-32R-06	8	100	109.2	32	85	50	3.5	●	A	2.2	SH M16x35	
11125-40R-06	11	125	134.2	40	85	63	3.5	●	A	3.5	SH M20x40	
14D-F45XNH 563-22R-09	5	63	75.1	22	47	40	5.0	●	A	0.6	SH M10x35	XNM(H)U 0906... E266
680-27R-09	6	80	92.1	27	70	50	5.0	●	A	1.5	SH M12x35	
7100-32R-09	7	100	112.1	32	85	50	5.0	●	A	2.2	SH M16x35	
9125-40R-09	9	125	137.0	40	85	63	5.0	●	A	3.6	SH M20x40	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Shim	Shim screw	Wrench	Wrench handle
14D-F45XNH-06	TS 35C110I	TSXN 06N	TS 5035062S-B	TBLD T15-W6	SW6-T
14D-F45XNH-09	TS 50C130I/HG	TSXN 09N	TS 8050088S	TBLD T20-W6	SW6-T

Cutting Condition E271-E273
Arbor Style E274-E275

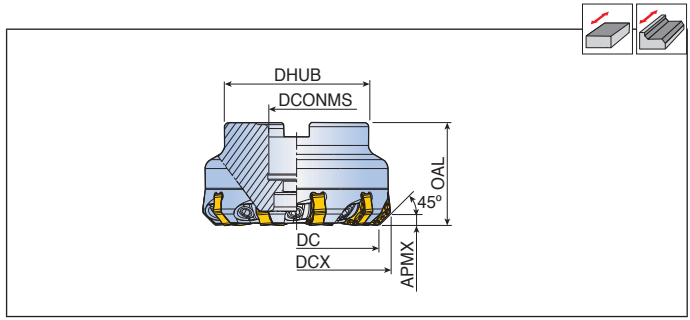
TaeguTec

14D-F45XNW-09

CHASE2HEPTA

Face mill





45°

Designation		Dimension (mm)						Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX				
14D-F45XNW 1080-27R-09	10	80	91.9	27	70	50	5.0	A	1.5	SH M12x35	XNHU 0906... E266
14100-32R-09	14	100	112	32	85	55	5.0	A	2.9	SH M16x35	
18125-40R-09	18	125	137	40	85	63	5.0	B	3.8	-	
18160-40R-09	18	160	172	40	110	63	5.0	C	5.6	-	
22160-40R-09	22	160	172	40	110	63	5.0	C	5.6	-	
28200-60R-09	28	200	212	60	130	63	5.0	C	7.9	-	
36250-60R-09	36	250	262	60	160	63	5.0	C	12.7	-	
44315-60R-09	44	315	327	60	220	63	5.0	D	19.9	-	

• Recommend to very stable machining condition at cast iron & steel

Spare parts

Designation	Wedge	Wedge screw	Wrench		
14D-F45XNW-09	WFZ 8H	WS 8	T-W 4		

Cutting Condition E271-E273
Arbor Style E274-E275

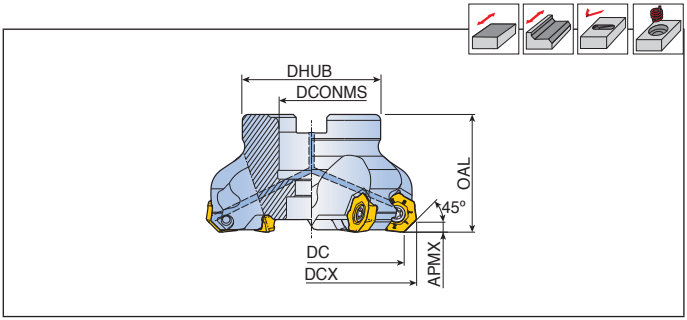
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7S-F45-06

CHASE HEPTA

Face mills





45°

Designation			Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
			DC	DCX	DCONMS	DHUB	OAL	APMX					
7S-F45	332-16R-06	3	32	40.4	16	38	40	3.2	●	E	0.2	KTB 32B	7EMT 0604... E223
	440-16R-06	4	40	48.5	16	38	40	3.2	●	A	0.3	SH M8x30	
	550-22R-06	5	50	58.5	22	45	40	3.2	●	A	0.4	LH M10x25	
	663-22R-06	6	63	71.5	22	47	40	3.2	●	A	0.5	LH M10x25	
	780-27R-06	7	80	88.5	27	70	50	3.2	●	A	1.3	LH M12x30	
	8100-32R-06	8	100	108.5	32	85	50	3.2	●	A	1.9	LH M16x35	
	9125-40R-06	9	125	133.5	40	85	63	3.2	●	A	3.3	SH M20x40	
7S-F45	780-25.4R-06	7	80	88.5	25.4	70	50	3.2	●	A	1.3	LH M12x30	
	8100-31.75R-06	8	100	108.5	31.75	80	50	3.2	●	A	1.8	LH M16x35	
	9125-38.1R-06	9	125	133.5	38.1	80	63	3.2	x	B	2.8	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M8x1.25x30-C)

Spare parts

Designation	Screw	Wrench			
7S-F45-06	TS 40093I/HG	T-T15			

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E327

TFM45SN-13

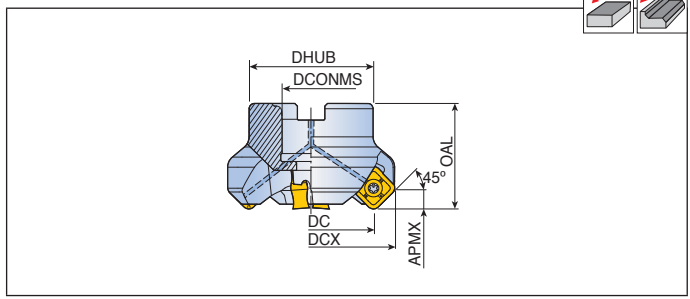
CHASE2QUAD

Face mills









Designation			Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
			DC	DCX	DCONMS	DHUB	OAL	APMX					
TFM45SN	440-16R-13	4	40	54.7	16	38	40	7.0	●	A	0.3	LH M10x25	SNM(G)X 1306 AN... SNMX 1306 XTN E252
	450-22R-13	4	50	64.7	22	45	40	7.0	●	A	0.5	LH M10x25	
	650-22R-13	6	50	64.7	22	45	40	7.0	●	A	0.5	LH M10x25	
	663-22R-13	6	63	77.7	22	47	40	7.0	●	A	0.7	LH M10x25	
	863-22R-13	8	63	77.7	22	47	40	7.0	●	A	0.7	LH M10x25	
	480-27R-13B	4	80	94.8	27	70	50	7.0	●	A	1.4	LH M12x30	
	780-27R-13	7	80	94.8	27	70	50	7.0	●	A	1.5	LH M12x30	
	1080-27R-13	10	80	94.8	27	70	50	7.0	●	A	1.5	LH M12x30	
	5100-32R-13B	5	100	114.8	32	85	50	7.0	●	A	2.1	LH M16x35	
	8100-32R-13	8	100	114.8	32	85	50	7.0	●	A	2.2	LH M16x35	
	12100-32R-13	12	100	114.8	32	85	50	7.0	●	A	2.2	LH M16x35	
	6125-40R-13B	6	125	139.8	40	85	63	7.0	●	A	3.8	SH M20x40	
	10125-40R-13	10	125	139.8	40	85	63	7.0	●	A	3.8	SH M20x40	
	16125-40R-13	16	125	139.6	40	85	63	7.0	●	A	3.8	SH M20x40	
	8160-40R-13B	8	160	174.8	40	110	63	7.0	x	C	4.9	-	
	12160-40R-13	12	160	174.8	40	110	63	7.0	x	C	4.9	-	
	20160-40R-13	20	160	174.5	40	110	63	7.0	x	C	5.0	-	
	10200-60R-13B	10	200	214.8	60	130	63	7.0	x	C	6.5	-	
	18200-60R-13	18	200	214.8	60	130	63	7.0	x	C	6.6	-	
	26200-60R-13	26	200	214.3	60	130	63	7.0	x	C	7.0	-	
	20250-60R-13	20	250	264.8	60	160	63	7.0	x	C	12.9	-	
TFM45SN	480-25.4R-13B	4	80	94.8	25.4	70	50	7.0	●	A	1.4	LH M12x30	
	5100-31.75R-13B	5	100	114.8	31.75	80	50	7.0	x	B	2.1	-	
	6125-38.1R-13B	6	125	139.8	38.1	80	63	7.0	x	B	3.8	-	
	10125-38.1R-13	10	125	139.8	38.1	80	63	7.0	x	B	3.4	-	
	8160-50.8R-13B	8	160	174.8	50.8	100	63	7.0	x	B	4.9	-	
	12160-50.8R-13	12	160	174.8	50.8	100	63	7.0	x	B	5.0	-	
	10200-47.625R-13B	10	200	214.8	47.625	130	63	7.0	x	C	6.5	-	
	12250-47.625R-13B	12	250	264.8	47.625	160	63	7.0	x	C	12.9	-	

Cutting Condition E271-E273

Arbor Style E274-E275

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

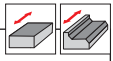
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TaeguTec Industry 4.0

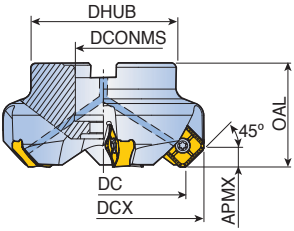
TFM45SNS-16

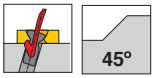
CHASE2QUAD

Face mills









Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX					
TFM45SNS 463-22R-16	4	63	81.1	22	47	50	8.8	•	A	1.0	LH M10x25	SNMX 1607... SNHX 1606... E254
580-27R-16	5	80	98.2	27	70	50	8.8	•	A	1.5	LH M12x30	
7100-32R-16	7	100	118.2	32	85	50	8.8	•	A	2.3	LH M16x35	
8125-40R-16	8	125	143.2	40	85	63	8.8	•	A	4.0	SH M20x40	
10125-40R-16	10	125	143.2	40	85	63	8.8	•	A	4.0	SH M20x40	
10160-40R-16	10	160	178.2	40	110	63	8.8	x	C	5.4	-	
12160-40R-16	12	160	178.2	40	110	63	8.8	x	C	5.4	-	
12200-60R-16	12	200	218.2	60	130	63	8.8	x	C	7.5	-	
14250-60R-16	14	250	268.2	60	160	63	8.8	x	C	13	-	
TFM45SNS 580-25.4R-16	5	80	98.2	25.4	70	50	8.8	•	A	1.5	LH M12x30	
7100-31.75R-16	7	100	118.2	31.75	80	50	8.8	x	B	2.3	-	
8125-38.1R-16	8	125	143.2	38.1	80	63	8.8	x	B	4.0	-	
10160-50.8R-16	10	160	178.2	50.8	100	63	8.8	x	B	5.4	-	
12200-47.625R-16	12	200	218.2	47.625	130	63	8.8	x	C	7.5	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
					
TFM45SN-13	TS 40B100I	T-T15			
TFM45SNS-16	TS 45120I	T-T20			

Cutting Condition E271-E273

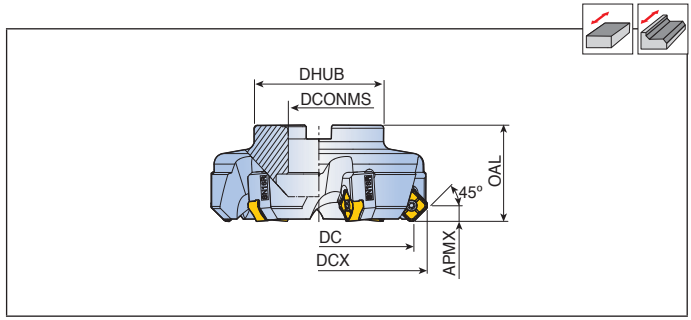
Arbor Style E274-E275

TFM45SNS-16B-CA

CHASE2QUAD

Face mills







45°

Designation		Dimension (mm)						Arbor style	Kg	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX			
TFM45SNS 6125-40R-16B-CA	6	125	143.2	40	85	63	8.8	B	4.0	SNMX 1607... SNHX 1606... E254
8160-40R-16B-CA	8	160	178.2	40	110	63	8.8	C	5.9	
10200-60R-16B-CA	10	200	218.2	60	130	63	8.8	C	8.1	
14250-60R-16-CA	14	250	268.2	60	160	63	8.8	C	13.3	
14315-60R-16B-CA	14	315	333.2	60	220	80	8.8	D	24.0	

Spare parts

Designation	Screw	Cartridge	Cartridge screw	Wrench	
TFM45SNS-16B-CA	TS 45120I	TCT23-SN16R	TS 60170I	T-T20	

Cutting Condition E271-E273
Arbor Style E274-E275

ADVANCE MACHINING TaeguTec Industry 4.0

TFM45SNW-16/TQ45SNW-16

CHASE2QUAD

Face mills



45°

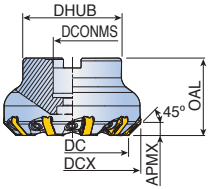


Fig.1

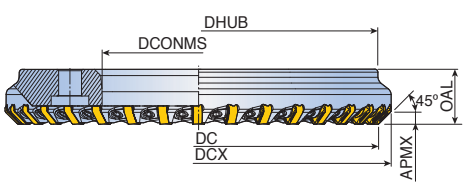


Fig.2

Designation		Dimension (mm)						Fig.	Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX					
TFM45SNW	**1080-27R-16**	80	98.2	27	70	55	8.8	1	A	1.9	LH M12x30	SNHX 1606...
	14100-32R-16	100	118.2	32	85	63	8.8	1	A	3.2	SH M16x35	E254
	18125-40R-16	125	143.2	40	85	63	8.8	1	B	3.9	-	
	22160-40R-16	160	178.2	40	110	63	8.8	1	C	5.7	-	
	26200-60R-16	200	218.2	60	130	63	8.8	1	C	7.8	-	
	32250-60R-16	250	268.2	60	160	63	8.8	1	C	13.5	-	

Designation		Dimension (mm)						Fig.	Kg	Adapter	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX				
TQ45SNW	**26200R-16**	200	218.2	63.5	200	38	8.8	2	6.3	QA 08 K/M	SNHX 1606...
	34250R-16	250	268.2	133.35	248	38	8.8	2	7.9	QA 10 K/M	E254
	44315R-16	315	333.2	146.05	313	38	8.8	2	13.2	QA 12 K/M	
	50355R-16	355	373.2	215.90	353	38	8.8	2	13.0	QA 14 K/M	

• Recommend to very stable machining condition at cast iron & steel

Spare parts

Designation	Wedge	Wedge screw	Wrench		
TFM45SNW	WFZ 8H-SN	WS 8	T-W 4		
TQ45SNW	WFZ 8H-SN	WS 8	T-W 4		

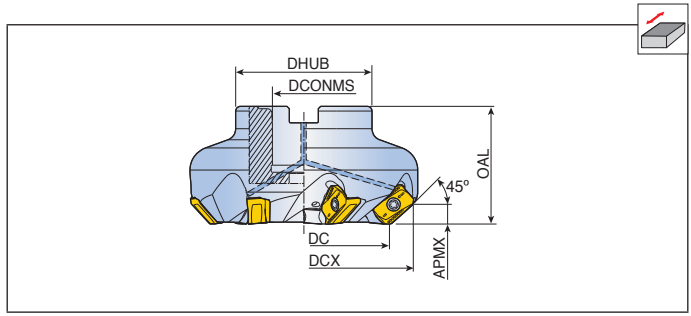
Cutting Condition E271-E273
Arbor Style E274-E275
Technical Data E276

TFM45AN-16

CHASE2MILL

Face mills





45°

Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX					
TFM45AN 450-22R-16	4	50	67.8	22	45	40	8.4	●	A	0.6	LH M10x25	ANHX 1607 ANR-M E223
663-22R-16	6	63	80.6	22	47	40	8.4	●	A	0.9	LH M10x25	
780-27R-16	7	80	97.5	27	58	50	8.4	●	A	1.6	SH M12x35	
8100-32R-16	8	100	117.5	32	85	50	8.4	●	A	2.5	LH M16x35	
9125-40R-16	9	125	142.6	40	85	63	8.4	●	A	4.3	SH M20x40	
10160-40R-16	10	160	177.7	40	110	63	8.4	x	C	5.8	-	

- 90° Inserts can not be mounted
- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
TFM45AN	TS 40120I	T-T15			

Cutting Condition E271-E273
Arbor Style E274-E275

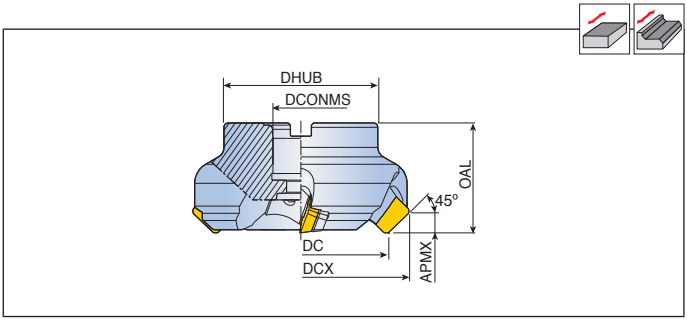
ADVANCE MACHINING Industry 4.0 TaeguTec

LM45SD-12/15

LIONMILL

Face mills (Inch bore)





45°

Designation		Dimension (mm)						Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX				
LM45SD	**480-25.4R-12**	4	80	93.8	25.4	70	50	6.5	A	1.6	LH M12x30	SDKN 1203...
	5100-31.75R-12	5	100	113.8	31.75	80	60	6.5	A	2.8	LH M16x35	E248
	6125-38.1R-12	6	125	138.8	38.1	80	63	6.5	B	3.5	-	
	8160-50.8R-12	8	160	173.9	50.8	100	63	6.5	B	5.5	-	
	10200-47.625R-12	10	200	213.9	47.625	130	63	6.5	C	7.6	-	
	12250-47.625R-12	12	250	263.9	47.625	160	63	6.5	C	12.6	-	
LM45SD	**6125-38.1R/L-15**	6	125	143.6	38.1	80	63	8.7	B	3.5	-	SDKN 1504...
	8160-50.8R/L-15	8	160	178.6	50.8	100	63	8.7	B	5.5	-	E248
	10200-47.625R-15	10	200	218.6	47.625	130	63	8.7	C	7.6	-	
	12250-47.625R/L-15	12	250	268.6	47.625	160	63	8.7	C	12.6	-	
	14315-47.625R/L-15	14	315	333.54	47.625	220	63	6.7	D	18.7	-	

• Metric bore cutter is available upon request

Spare parts

Designation	Carbide shim	Wedge	Shim screw	Wedge screw	Wrench	
				(1)		(2)
LM45SD-12	TSSDSE 12N	WPA 8	TS 40B100I	TS 80200W TS 80160W(1)	T-W 4	T-T15
LM45SD-15	TSSDSE 15N	WPA 8	TS 40B100I		T-W 4	T-T15

Cutting Condition E271-E273

Arbor Style E274-E275

• (1) TS 80160W is for D80 cutter
• The shim screw wrench T-T15(2) shall be ordered separately

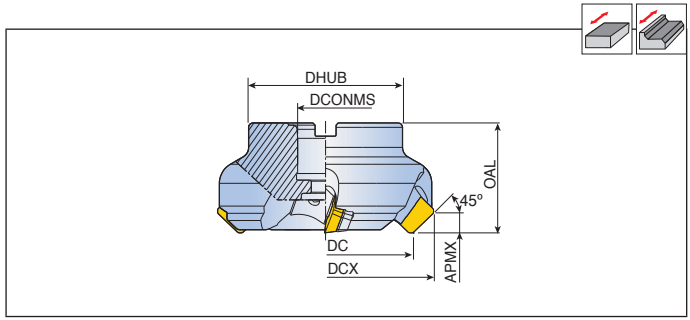
TaeguTec Member IMC Group

LM45SE-12/15

LIONMILL

Face mills (Inch bore)





45°

Designation		Dimension (mm)						Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX				
LM45SE	**480-25.4R-12**	4	80	93.7	25.4	70	55	6.5	A	1.8	LH M12x30	SEKN 1203...
	5100-31.75R-12	5	100	113.6	31.75	80	60	6.5	A	2.8	LH M16x35	E249
	6125-38.1R-12	6	125	138.6	38.1	80	63	6.5	B	3.4	-	
	8160-50.8R-12	8	160	173.6	50.8	100	63	6.5	B	5	-	
	10200-47.625R-12	10	200	213.6	47.625	130	63	6.5	C	7.5	-	
	12250-47.625R-12	12	250	263.6	47.625	160	63	6.5	C	12.2	-	
LM45SE	**480-25.4R-15**	4	80	97.8	25.4	70	55	8.7	A	1.8	LH M12x30	SEKN 1504...
	5100-31.75R-15	5	100	118	31.75	80	60	8.7	A	2.8	LH M16x35	E249
	6125-38.1R-15	6	125	143	38.1	80	63	8.7	B	3.5	-	
	8160-50.8R-15	8	160	178	50.8	100	63	8.7	B	5.7	-	
	10200-47.625R-15	10	200	218	47.625	130	63	8.7	C	7.8	-	
	12250-47.625R-15	12	250	268	47.625	160	63	8.7	C	12.8	-	

• Metric bore cutter is available upon request

Spare parts

Designation	Carbide shim	Wedge	Shim screw	Wedge screw	Wrench	
				(1)		(2)
LM45SE-12	TSSDSE 12N	WPA 8	TS 40B100I	TS 80200W TS 80160W(1)	T-W 4	T-T15
LM45SE-15	TSSDSE 15N	WPA 8	TS 40B100I		T-W 4	T-T15

Cutting Condition E271-E273
Arbor Style E274-E275

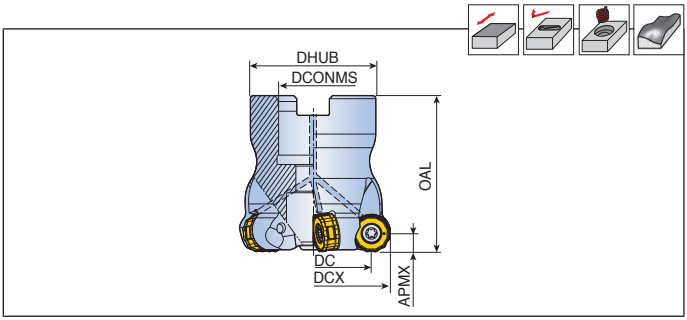
• (1) TS 80160W is for D80 cutter
• The shim screw wrench T-T15(2) shall be ordered separately

TFMRNS-10/12

CHASE2MOLD

Face mills





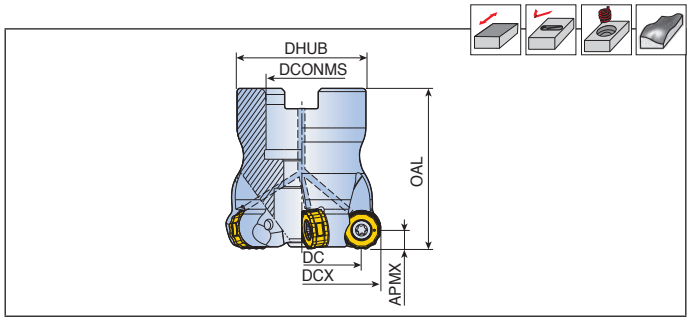
Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMRNS 432-16R-10	4	32	22	16	30	40	5.0	●	E	0.1	KTB 32B	RNMU 1004... E244
433-16R-10	4	33	23	16	30	40	5.0	●	E	0.1	KTB 32B	
540-16R-10	5	40	30	16	38	40	5.0	●	A	0.2	SH M8x30	
650-22R-10	6	50	40	22	45	50	5.0	●	A	0.4	SH M10x30	
652-22R-10	6	52	42	22	45	50	5.0	●	A	0.4	SH M10x30	
TFMRNS 440-16R-12	4	40	28	16	38	40	6.0	●	A	0.2	SH M8x30	RNMU 1205... E244
450-22R-12	4	50	38	22	45	50	6.0	●	A	0.3	SH M10x30	
550-22R-12	5	50	40	22	45	50	6.0	●	A	0.3	SH M10x30	
552-22R-12	5	52	40	22	45	50	6.0	●	A	0.4	SH M10x30	
563-22R-12	5	63	51	22	47	50	6.0	●	A	0.6	SH M10x30	
663-22R-12	6	63	51	22	47	50	6.0	●	A	0.6	SH M10x30	
666-27R-12	6	66	54	27	58	50	6.0	●	A	0.6	SH M12x35	
680-27R-12	6	80	68	27	58	50	6.0	●	A	1.1	SH M12x35	
780-27R-12	7	80	68	27	58	50	6.0	●	A	1.0	SH M12x35	
7100-32R-12	7	100	88	32	66	50	6.0	●	A	1.5	LH M16x35	
8100-32R-12	8	100	88	32	66	50	6.0	●	A	1.5	LH M16x35	

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E339

TFMRNS-16

Face mills





Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMRNS 350-16R-16	3	50	34	16	38	50	8.0	●	A	0.2	SH M8x30	RNMU 1606... E244
450-16R-16	4	50	34	16	38	50	8.0	●	A	0.2	SH M8x30	
452-22R-16	4	52	36	22	45	50	8.0	●	A	0.3	SH M10x30	
463-22R-16	4	63	47	22	47	50	8.0	●	A	0.5	SH M10x30	
566-27R-16	5	66	50	27	58	50	8.0	●	A	0.6	LH M12x30	
580-27R-16	5	80	64	27	58	50	8.0	●	A	0.9	LH M12x30	
680-27R-16	6	80	64	27	58	50	8.0	●	A	0.8	LH M12x30	
6100-32R-16	6	100	84	32	66	50	8.0	●	A	1.7	LH M16x35	
7125-40R-16	7	125	109	40	85	63	8.0	●	A	3.0	SH M20x40	
8125-40R-16	8	125	109	40	85	63	8.0	●	A	2.9	SH M20x40	
9160-40R-16	9	160	144	40	110	63	8.0	x	C	3.8	-	
10200-60R-16	10	200	184	60	130	63	8.0	x	C	5.6	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
TFMRNS-10	TS 35085I/HG	T-T15			
TFMRNS-12	TS 40G110I	T-T15			
TFMRNS-16	TS 50A121I/HG	T-T20			

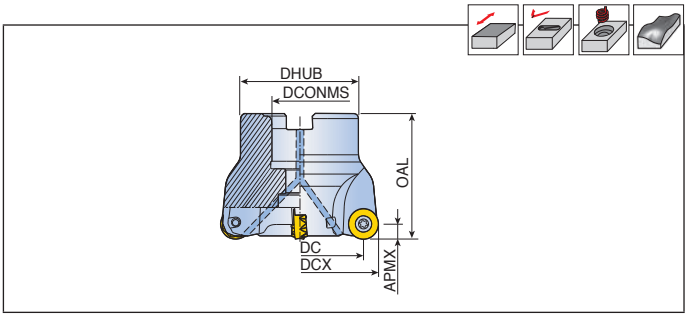
Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E340

TFMRY-08/10/12

CHASEMOLD

Face mills





Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMRY 532-16R-08	5	32	24	16	30	40	4.0	●	A	0.12	SH M8x30	RYM(H)X 0803... E245-E246
640-16R-08	6	40	32	16	38	40	4.0	●	A	0.22	SH M8x30	
TFMRY 432-16R-10	4	32	22	16	30	40	5.0	●	A	0.12	SH M8x30	RYM(H)X 1004... E245-E246
540-16R-10	5	40	30	16	38	40	5.0	●	A	0.22	SH M8x30	
640-16R-10	6	40	30	16	38	40	5.0	●	A	0.23	SH M8x30	
650-22R-10	6	50	40	22	45	50	5.0	●	A	0.33	SH M10x30	
652-22R-10	6	52	42	22	45	50	5.0	●	A	0.36	SH M10x30	
763-22R-10	7	63	53	22	47	50	5.0	●	A	0.57	SH M10x30	
766-27R-10	7	66	56	27	58	50	5.0	●	A	0.68	LH M12x30	
TFMRY 332-16R-12	3	32	20	16	30	50	6.0	●	E	0.12	KTB 32B	RYM(H)X 1205... E245-E246
440-16R-12	4	40	28	16	38	40	6.0	●	A	0.15	SH M8x30	
442-16R-12	4	42	30	16	38	40	6.0	●	A	0.21	SH M8x30	
450-22R-12	4	50	38	22	45	50	6.0	●	A	0.33	SH M10x30	
550-22R-12	5	50	38	22	45	50	6.0	●	A	0.33	SH M10x30	
552-22R-12	5	52	40	22	45	50	6.0	●	A	0.34	SH M10x30	
463-22R-12	4	63	51	22	47	50	6.0	●	A	0.57	SH M10x30	
563-22R-12	5	63	51	22	47	50	6.0	●	A	0.58	SH M10x30	
663-22R-12	6	63	51	22	47	50	6.0	●	A	0.58	SH M10x30	
763-22R-12	7	63	51	22	47	50	6.0	●	A	0.71	SH M10x30	
666-27R-12	6	66	54	27	58	50	6.0	●	A	0.62	LH M12x30	
766-27R-12	7	66	54	27	58	50	6.0	●	A	0.62	LH M12x30	
680-27R-12	6	80	68	27	58	50	6.0	●	A	0.90	LH M12x30	
780-27R-12	7	80	68	27	58	50	6.0	●	A	0.92	LH M12x30	
880-27R-12	8	80	68	27	58	50	6.0	●	A	0.98	LH M12x30	
7100-32R-12	7	100	88	32	66	50	6.0	●	A	1.29	LH M16x35	
8100-32R-12	8	100	88	32	66	50	6.0	●	A	1.37	LH M16x35	
8125-40R-12	8	125	113	40	85	63	6.0	●	A	3.00	SH M20x40	
9125-40R-12	9	125	113	40	85	63	6.0	●	A	2.99	SH M20x40	

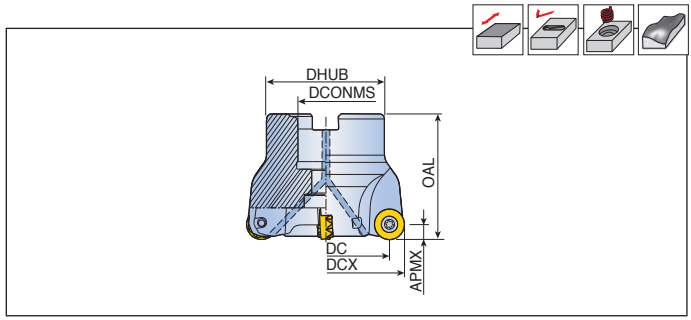
Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E341-E342

TFMRY-16

CHASEMOLD

Face mills





Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMRY	**350-16R-16**	3	50	34	16	38	50	8.0	●	A	0.3	SH M8x35	RYM(H)X 1606... E245-E246
	450-16R-16	4	50	34	16	38	50	8.0	●	A	0.3	SH M8x35	
	450-22R-16	4	50	34	22	45	50	8.0	●	A	0.3	SH M10x30	
	452-22R-16	4	52	36	22	45	50	8.0	●	A	0.3	SH M10x30	
	463-22R-16	4	63	47	22	47	50	8.0	●	A	0.5	SH M10x30	
	463H-22R-16*	4	63	47	22	47	50	8.0	●	A	0.5	SH M10x30	
	566-27R-16	5	66	50	27	58	50	8.0	●	A	0.6	LH M12x30	
	580-27R-16	5	80	64	27	58	50	8.0	●	A	0.8	LH M12x30	
	580H-27R-16*	5	80	64	27	58	50	8.0	●	A	0.8	LH M12x30	
	680-27R-16	6	80	64	27	58	50	8.0	●	A	0.8	LH M12x30	
	6100-32R-16	6	100	84	32	66	50	8.0	●	A	1.2	LH M16x35	
	6100H-32R-16*	6	100	84	32	66	50	8.0	●	A	1.2	LH M16x35	
	7125-40R-16	7	125	109	40	85	63	8.0	●	A	2.7	SH M20x40	
	7125H-40R-16*	7	125	109	40	85	63	8.0	●	A	2.6	SH M20x40	
	8125-40R-16	8	125	109	40	85	63	8.0	●	A	2.7	SH M20x40	
	8160H-40R-16*	8	160	144	40	110	63	8.0	x	C	3.3	-	
TFMRY	**580-25.4R-16**	5	80	64	25.4	70	50	8.0	●	A	1.0	SH M12x35	

- *: Carbide shim type
- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Shim	Shim screw	Screw	Wrench	
TFMRY-08	-	-	TS 30A60I/HG	TD 9	-
TFMRY-10	-	-	TS 35085/HG	-	T-T15
TFMRY-12	-	-	TS 40093I	-	T-T15
TFMRY-16	-	-	TS 50115I	-	T-T20
TFMRY...H-16	TSRY 16NS	TS 8050088S	TS 50A140I	-	T-T20

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E343

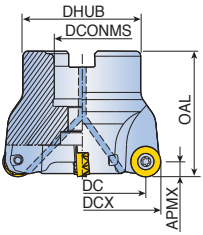
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TaeguTec Industry 4.0

TFMRY-20

CHASEMOLD

Face mills





Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMRY 463-22R-20	4	63	43	22	47	50	10.0	•	A	0.5	SH M10x30	RYMX 2007...
580-27R-20	5	80	60	27	58	50	10.0	•	A	0.8	LH M12x30	
5100H-32R-20*	5	100	80	32	66	50	10.0	•	A	1.1	LH M16x35	E245-E246
6100-32R-20	6	100	80	32	66	50	10.0	•	A	1.2	LH M16x35	
5125H-40R-20*	5	125	105	40	85	63	10.0	•	A	2.7	SH M20x40	
7125-40R-20	7	125	105	40	85	63	10.0	•	A	2.5	SH M20x40	
6160H-40R-20*	6	160	140	40	110	63	10.0	x	C	2.7	-	
8160-40R-20	8	160	140	40	110	63	10.0	x	C	3.8	-	
8200H-60R-20*	8	200	180	60	130	63	10.0	x	C	5.3	-	
9250H-60R-20*	9	250	230	60	160	63	10.0	x	C	9.3	-	

- *: Carbide shim type
- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

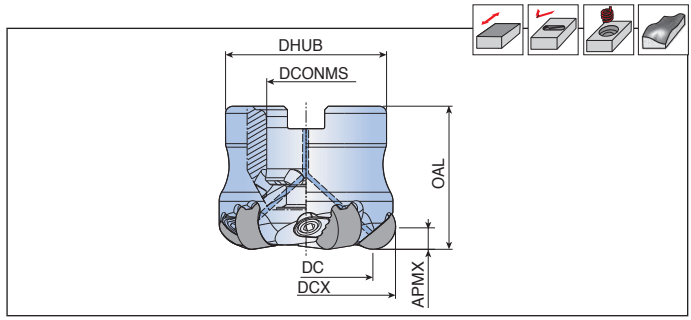
Designation	Shim	Shim screw	Screw	Wrench	Wrench handle
TFMRY-20	-	-	TS 60A130I	BLD T25/M7	SW6-T
TFMRY...H-20	TSRY 20NS	TS 9060011S	TS 60A165I	BLD T25/M7	SW6-T

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E343

TFMRN-12

Face mills





Designation		Dimension (mm)						Air hole(1)	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMRN	**450-22R-1207**	4	50	37.3	22	45	40	6.3	●	A	0.4	SH M10x30	RNGN 1207 FL... E243
	550-22R-1207	5	50	37.3	22	45	40	6.3	●	A	0.4	SH M10x30	
	463-22R-1207	4	63	50.3	22	47	40	6.3	●	A	0.6	SH M10x30	
	663-22R-1207	6	63	50.3	22	47	40	6.3	●	A	0.6	SH M10x30	
	763-22R-1207	7	63	50.3	22	47	40	6.3	●	A	0.6	SH M10x30	
	580-27R-1207	5	80	67.3	27	58	50	6.3	●	A	1.1	SH M12x35	
	780-27R-1207	7	80	67.3	27	58	50	6.3	●	A	1.1	SH M12x35	
	880-27R-1207	8	80	67.3	27	58	50	6.3	●	A	1.1	SH M12x35	

- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)
- (1) Use only air (Coolant is prohibited)

Spare parts

Designation	Wedge	Screw	Wrench		
					
TFMRN-12	WFZ 6-C	WS 6	T-W 3		

Cutting Condition E271-E273
Arbor Style E274-E275

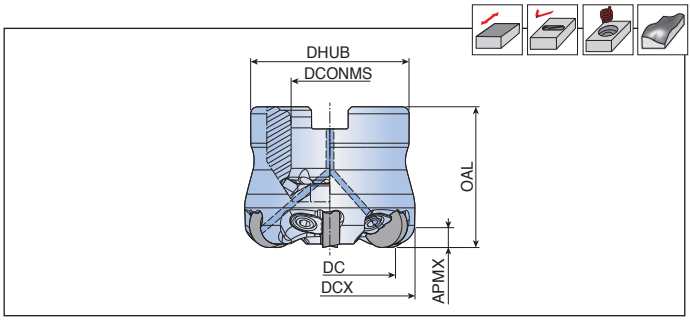
ADVANCE MACHINING Industry 4.0
TaeguTec

TFMRP-12

CHASESPEED

Face mills





Designation			Dimension (mm)						Air hole(1)	Arbor style	Kg	Mounting bolt	Insert
			DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMRP	**450-22R-12**	4	50	37.3	22	45	40	6.3	•	A	0.3	LH M10x25	RPGN 1204 FL... E243
	650-22R-12	6	50	37.3	22	45	40	6.3	•	A	0.3	LH M10x25	

- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)
- (1) Use only air (Coolant is prohibited)

Spare parts

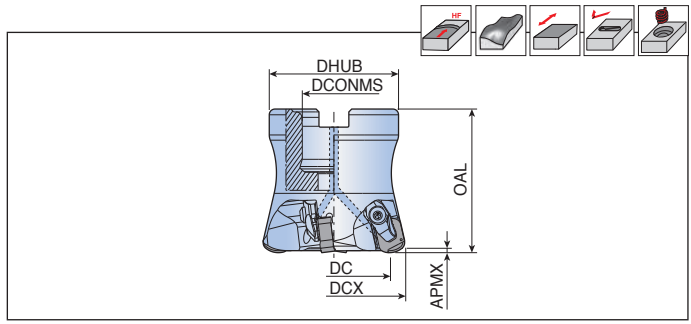
Designation	Wedge	Screw	Wrench		
TFMRP-12	WFZ 6-C	WS 6	T-W 3		

Cutting Condition E271-E273
Arbor Style E274-E275

TFMBN-09CH

High feed face mills





Designation		Dimension (mm)						Air hole[1]	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMBN 440-16R-09CH	4	40	29.4	16	38	40	1.5	•	A	0.2	SH M8x30	BNGX 0904... E234
350-22R-09CH	3	50	39.4	22	45	40	1.5	•	A	0.5	SH M10x30	
550-22R-09CH	5	50	39.4	22	45	40	1.5	•	A	0.4	SH M10x30	

- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)
- [1] Use only air (Coolant is prohibited)

Spare parts

Designation	Clamp	Screw	Snap ring	Wrench	
TFMBN-09CH	CCL-3S	CLS-35A120	CSR 1.25	L-W 2	

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E344

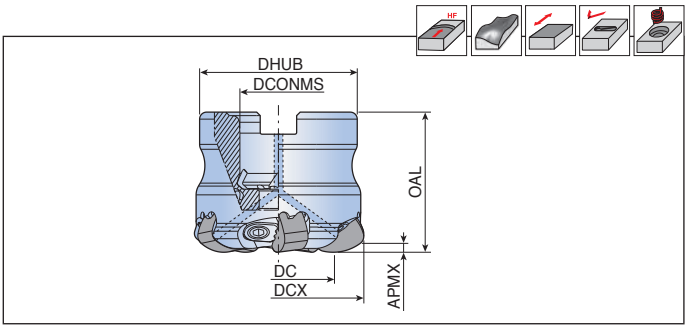
ADVANCE MACHINING
TaeguTec Industry 4.0

TFMBN-12

CERAMICSFEED

High feed face mills





Designation		Dimension (mm)						Air hole[1]	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMBN 450-22R-12	4	50	32.8	22	45	40	2.5	●	A	0.3	SH M10x30	BNGX 1207... E234
550-22R-12	5	50	32.8	22	45	40	2.5	●	A	0.3	SH M10x30	
663-22R-12	6	63	45.7	22	47	40	2.5	●	A	0.4	SH M10x30	
763-22R-12	7	63	45.7	22	47	40	2.5	●	A	0.4	SH M10x30	
780-27R-12	7	80	62.6	27	70	50	2.5	●	A	1.2	SH M12x35	
880-27R-12	8	80	62.6	27	70	50	2.5	●	A	1.2	SH M12x35	

- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)
- [1] Use only air (Coolant is prohibited)

Spare parts

Designation	Wedge	Screw	Wrench		
					
TFMBN-12	WFZ 6-C	WS 6	T-W 3		

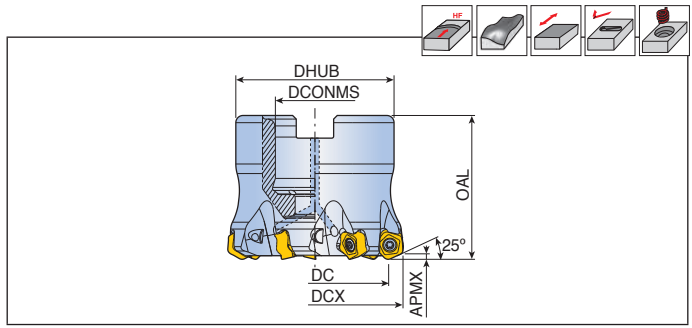
Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E345

TFMPT-05/10

CHASE 10 MILL

High feed face mills





Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMPT	640-16R-05	6	40	31.8	16	38	40	1.5	•	A	0.3	SH M8x25	PTKU 0503... E242
	750-22R-05	7	50	41.8	22	45	40	1.5	•	A	0.4	LH M10x25	
	752-22R-05	7	52	43.8	22	45	40	1.5	•	A	0.3	LH M10x25	
	863-22R-05	8	63	54.8	22	58	50	1.5	•	A	0.8	SH M10x30	
	866-27R-05	8	66	57.8	27	58	50	1.5	•	A	0.7	SH M12x35	
TFMPT	450-22R-10	4	50	33.4	22	45	40	3.0	•	E	0.3	TCS10-40	PTKU 1006... E242
	563-22R-10	5	63	46.4	22	58	50	3.0	•	A	0.8	SH M10x30	
	566-22R-10	5	66	49.4	22	58	50	3.0	•	A	0.8	SH M10x30	
	680-27R-10	6	80	63.4	27	70	60	3.0	•	A	1.4	SH M12x30	
	8100-32R-10	8	100	83.4	32	85	60	3.0	•	A	2.3	SH M16x35	
	9125-32R-10	9	125	108.4	32	85	60	3.0	•	A	3.1	SH M16x35	
	10160-40R-10	10	160	143.4	40	110	60	3.0	x	C	4.1	-	
	12200-60R-10	12	200	183.4	60	130	60	3.0	x	C	5.7	-	
TFMPT	680-25.4R-10	6	80	63.4	25.4	70	60	3.0	•	A	1.5	SH M12x35	
	8100-31.75R-10	8	100	83.4	31.75	80	60	3.0	x	B	2.0	-	
	9125-38.1R-10	9	125	108.4	38.1	80	60	3.0	x	B	2.6	-	
	10160-50.8R-10	10	160	143.4	50.8	100	60	3.0	x	B	4.2	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench		Wrench handle	
					
TFMPT-05	TS 25D060/HG-P	TD7P	-	-	
TFMPT-10	TS 50D130/HG-P	-	TBLD T20P-W6	SW6-T	

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E328-E329

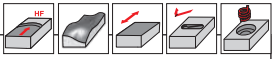
ADVANCE MACHINING
TaeguTec Industry 4.0

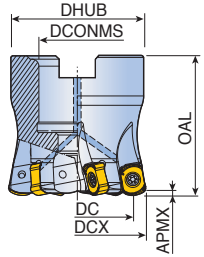
TFMBL-06/09

CHASE4FEED

High feed face mills







Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMBL 432-16R-06	4	32	24.3	16	30	40	1.0	●	A	0.1	SH M8x25	BLMP 0603... E232
532-16R-06	5	32	24.3	16	30	40	1.0	●	A	0.1	SH M8x25	
640-16R-06	6	40	32.2	16	38	40	1.0	●	A	0.2	SH M8x25	
640-22R-06	6	40	32.2	22	38	40	1.0	●	A	0.2	SH M10x30	
650-22R-06	6	50	42.2	22	45	50	1.0	●	A	0.4	SH M10x30	
750-22R-06	7	50	42.2	22	45	50	1.0	●	A	0.4	SH M10x30	
850-22R-06	8	50	42.2	22	45	50	1.0	●	A	0.4	SH M10x30	
752-22R-06	7	52	44.2	22	45	40	1.0	●	A	0.4	SH M10x30	
852-22R-06	8	52	44.2	22	45	40	1.0	●	A	0.4	SH M10x30	
763-22R-06	7	63	55.5	22	47	50	1.0	●	A	0.6	SH M10x30	
863-22R-06	8	63	55.5	22	47	50	1.0	●	A	0.6	SH M10x30	
963-22R-06	9	63	55.5	22	47	50	1.0	●	A	0.6	SH M10x30	
966-27R-06	9	66	58.5	27	58	50	1.0	●	A	0.7	SH M12x35	
TFMBL 432-16R-09	4	32	21.6	16	30	40	1.5	●	E	0.1	KTB 32B	BLMP 0904... E232
440-16R-09	4	40	29.6	16	38	40	1.5	●	A	0.2	SH M8x25	
540-16R-09	5	40	29.6	16	38	40	1.5	●	A	0.2	SH M8x25	
550-22R-09	5	50	39.6	22	45	50	1.5	●	A	0.4	SH M10x30	
650-22R-09	6	50	39.6	22	45	50	1.5	●	A	0.4	SH M10x30	
750-22R-09	7	50	39.6	22	45	50	1.5	●	A	0.4	SH M10x30	
652-22R-09	6	52	41.6	22	45	40	1.5	●	A	0.4	SH M10x30	
752-22R-09	7	52	41.6	22	45	40	1.5	●	A	0.4	SH M10x30	
663-22R-09	6	63	52.6	22	47	50	1.5	●	A	0.6	SH M10x30	
763-22R-09	7	63	52.6	22	47	50	1.5	●	A	0.6	SH M10x30	
863-22R-09	8	63	52.6	22	47	50	1.5	●	A	0.6	SH M10x30	
766-27R-09	7	66	55.6	27	58	50	1.5	●	A	0.7	SH M12x35	
866-27R-09	8	66	55.6	27	58	50	1.5	●	A	0.8	SH M12x35	
780-27R-09	7	80	69.6	27	70	50	1.5	●	A	1.2	SH M12x35	
880-27R-09	8	80	69.6	27	70	50	1.5	●	A	1.2	SH M12x35	
980-27R-09	9	80	69.6	27	70	50	1.5	●	A	1.2	SH M12x35	
1080-27R-09	10	80	69.6	27	70	50	1.5	●	A	1.2	SH M12x35	
8100-32R-09	8	100	89.6	32	85	60	1.5	●	A	2.3	SH M16x35	
9100-32R-09	9	100	89.6	32	85	60	1.5	●	A	2.3	SH M16x35	
10100-32R-09	10	100	89.6	32	85	60	1.5	●	A	2.3	SH M16x35	
11100-32R-09	11	100	89.6	32	85	60	1.5	●	A	2.3	SH M16x35	
12100-32R-09	12	100	89.6	32	85	60	1.5	●	A	2.3	SH M16x35	
12125-40R-09	12	125	114.6	40	85	60	1.5	●	A	2.7	SH M20x40	
14125-40R-09	14	125	114.6	40	85	60	1.5	●	A	2.7	SH M20x40	

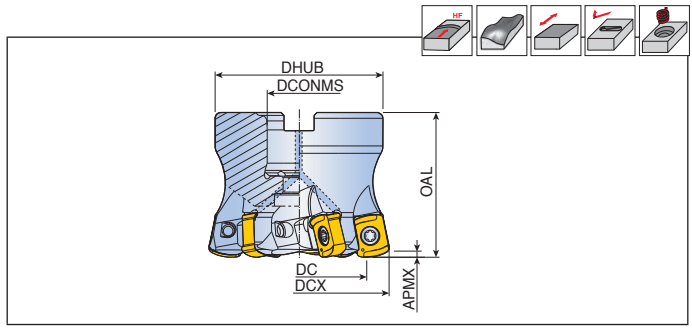
Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E332-E333

TFMBL-11

CHASE4FEED

High feed face mills





Designation			Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
			DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMBL	**440-16R-11**	4	40	24.4	16	30	40	2.0	●	E	0.2	KTB 32B	BLMP 1105... E232
	450-22R-11	4	50	34.4	22	45	40	2.0	●	A	0.3	LH M10x25	
	550-22R-11	5	50	34.4	22	45	40	2.0	●	A	0.3	LH M10x25	
	552-22R-11	5	52	36.4	22	45	40	2.0	●	A	0.3	LH M10x25	
	563-22R-11	5	63	48.4	22	58	50	2.0	●	A	0.7	SH M10x30	
	663-22R-11	6	63	48.4	22	58	50	2.0	●	A	0.7	SH M10x30	
	666-22R-11	6	66	50.3	22	58	50	2.0	●	A	0.8	SH M10x30	
	666-27R-11	6	66	50.3	27	58	50	2.0	●	A	0.7	SH M12x35	
	680-27R-11	6	80	64.3	27	70	60	2.0	●	A	1.4	SH M12x30	
	780-27R-11	7	80	64.3	27	70	60	2.0	●	A	1.4	SH M12x30	
	6100-32R-11	6	100	84.3	32	85	60	2.0	●	A	2.2	SH M16x35	
	7100-32R-11	7	100	84.3	32	85	60	2.0	●	A	2.2	SH M16x35	
	8125-32R-11	8	125	109.3	32	85	60	2.0	●	A	2.5	SH M20x40	
	10125-40R-11	10	125	109.3	40	85	60	2.0	●	A	2.7	SH M20x40	
	10160-40R-11	10	160	144.3	40	110	60	2.0	x	C	3.9	-	
	12200-60R-11	12	200	184.3	60	130	60	2.0	x	C	5.8	-	
TFMBL	**680-25.4R-11**	6	80	64.3	25.4	70	60	2.0	●	A	1.4	SH M12x35	
	6100-31.75R-11	6	100	84.3	31.75	80	60	2.0	x	B	1.8	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench		Wrench handle	
TFMBL-06	TS 25064I/HG-P	TD 8P	-	-	
TFMBL-09	TS 35A088I/HG	TD 10P	-	-	
TFMBL-11	TS 50A121I/HG	-	TBLD T20-W6	SW6-T	

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E334

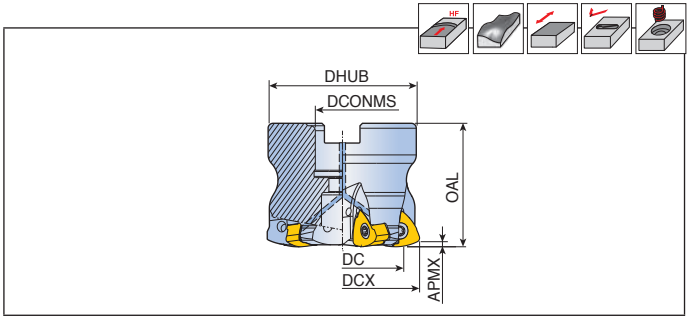
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TFMBL-13

CHASE2FEED

High feed face mills





Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMBL 340-16R-13	3	40	20.7	16	30	50	2.0	●	A	0.2	KTB 32B	BLMP 1306...
350-22R-13	3	50	31.0	22	45	40	2.0	●	A	0.3	LH M10x25	E233
450-22R-13	4	50	31.0	22	45	40	2.0	●	A	0.3	LH M10x25	
452-22R-13	4	52	32.2	22	45	40	2.0	●	A	0.3	SH M10x30	
463-22R-13	4	63	45.8	22	60	50	2.0	●	A	0.8	SH M10x30	
563-22R-13	5	63	45.8	22	60	50	2.0	●	A	0.8	SH M10x30	
463-27R-13	4	63	45.8	27	58	50	2.0	●	A	0.7	SH M12x30	
466-22R-13	4	66	45.9	22	60	50	2.0	●	A	0.8	SH M10x30	
566-22R-13	5	66	45.9	22	60	50	2.0	●	A	0.8	SH M10x30	
566-27R-13	5	66	45.9	27	58	50	2.0	●	A	0.7	SH M12x30	
580-27R-13	5	80	59.8	27	70	60	2.0	●	A	1.4	SH M12x30	
680-27R-13	6	80	59.8	27	70	60	2.0	●	A	1.4	SH M12x30	
580-32R-13	5	80	59.8	32	76	60	2.0	●	A	1.4	SH M16x35	
5100-32R-13	5	100	79.7	32	76	60	2.0	●	A	1.9	SH M16x35	
6100-32R-13	6	100	79.7	32	76	60	2.0	●	A	2.0	SH M16x35	
7100-32R-13	7	100	79.7	32	76	60	2.0	●	A	2.0	SH M16x35	
6125-32R-13	6	125	104.5	32	85	60	2.0	●	A	3.0	SH M16x35	
7125-40R-13	7	125	104.5	40	85	60	2.0	●	A	2.9	SH M20x35	
7160-40R-13	7	160	139.5	40	110	60	2.0	x	C	3.6	-	
8160-40R-13	8	160	139.5	40	110	60	2.0	x	C	3.6	-	
9160-40R-13	9	160	139.5	40	110	60	2.0	x	C	3.8	-	
8200-60R-13	8	200	179.5	60	130	60	2.0	x	C	5.4	-	
9200-60R-13	9	200	179.5	60	130	60	2.0	x	C	5.3	-	
11200-60R-13	11	200	179.5	60	130	60	2.0	x	C	5.5	-	
9250-60R-13	9	250	229.5	60	160	60	2.0	x	C	10.6	-	
10250-60R-13	10	250	229.5	60	160	60	2.0	x	C	10.6	-	
12250-60R-13	12	250	229.5	60	160	60	2.0	x	C	10.7	-	

Cutting Condition E271-E273

Arbor Style E274-E275

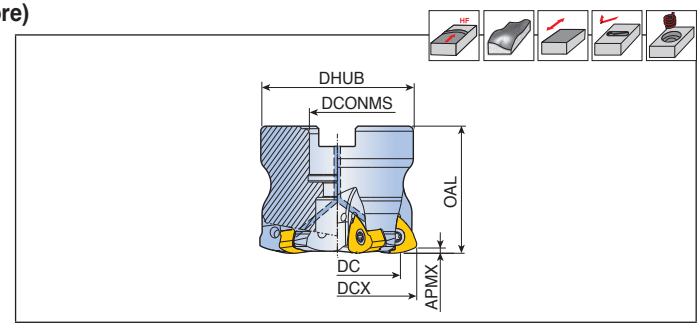
Ramping Data E335

TFMBL-13

CHASE2FEED

High feed face mills (Inch bore)





Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMBL 580-25.4R-13	5	80	59.8	25.4	70	60	2.0	●	A	1.3	SH M12x30	BLMP 1306...
580-31.75R-13	5	80	59.8	31.75	76	60	2.0	●	A	1.3	SH M16x35	E233
6100-31.75R-13	6	100	79.7	31.75	76	60	2.0	●	A	1.9	SH M16x35	
7125-38.1R-13	7	125	104.5	38.1	80	60	2.0	x	B	3.0	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
TFMBL-13	TS 50B106I/HG	T-T20			

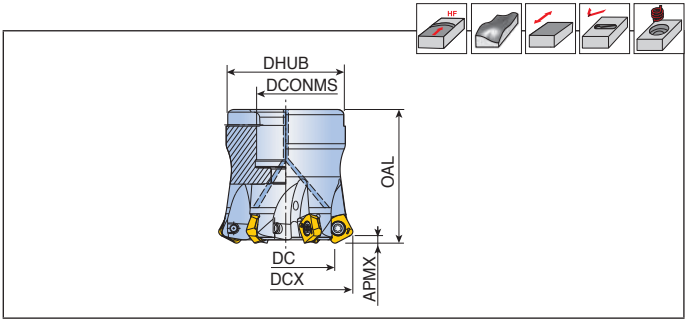
Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E335

TFMSB-06/09

CHASEFEED

High feed face mills





Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMSB 532-16R-06	5	32	21.7	16	30	40	1.0	•	A	0.1	SH M8x25	SBMT 0603... E247
640-16R-06	6	40	29.7	16	38	40	1.0	•	A	0.2	SH M8x25	
750-22R-06	7	50	39.7	22	45	50	1.0	•	A	0.4	SH M10x35	
863-22R-06	8	63	52.7	22	47	50	1.0	•	A	0.6	SH M10x35	
TFMSB 432-16R-09	4	32	17.4	16	30	40	1.2	•	E	0.1	KTB 32B	SBMT 0904... E247
440-16R-09	4	40	25.5	16	38	40	1.2	•	A	0.2	SH M8x25	
540-16R-09	5	40	25.5	16	38	40	1.2	•	A	0.2	SH M8x25	
450-22R-09	4	50	35.5	22	45	50	1.2	•	A	0.4	SH M10x30	
550-22R-09	5	50	35.5	22	45	50	1.2	•	A	0.4	SH M10x30	
650-22R-09	6	50	35.5	22	45	50	1.2	•	A	0.4	SH M10x30	
750-22R-09	7	50	35.5	22	45	50	1.2	•	A	0.4	SH M10x30	
652-22R-09	6	52	37.5	22	45	50	1.2	•	A	0.4	SH M10x30	
752-22R-09	7	52	37.5	22	45	50	1.2	•	A	0.4	SH M10x30	
663-22R-09	6	63	48.4	22	58	50	1.2	•	A	0.8	SH M10x30	
763-22R-09	7	63	48.4	22	58	50	1.2	•	A	0.8	SH M10x30	
763-27R-09	7	63	48.4	27	58	50	1.2	•	A	0.7	SH M12x35	
863-22R-09	8	63	48.4	22	58	50	1.2	•	A	0.8	SH M10x30	
866-22R-09	8	66	51.5	22	58	50	1.2	•	A	0.8	SH M10x30	
780-27R-09	7	80	65.8	27	70	60	1.2	•	A	1.4	SH M12x35	
880-27R-09	8	80	65.8	27	70	60	1.2	•	A	1.4	SH M12x35	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M8x1.25x25-C)

Spare parts

Designation	Screw	Wrench			
TFMSB-06	TS 25064I/HG-P	TD 8P			
TFMSB-09	TS 35A088I/HG	TD 10P			
TFMSB 750-22R-09	TS 35A070I/HG	TD 10P			
TFMSB 752-22R-09	TS 35A070I/HG	TD 10P			

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E336-E337

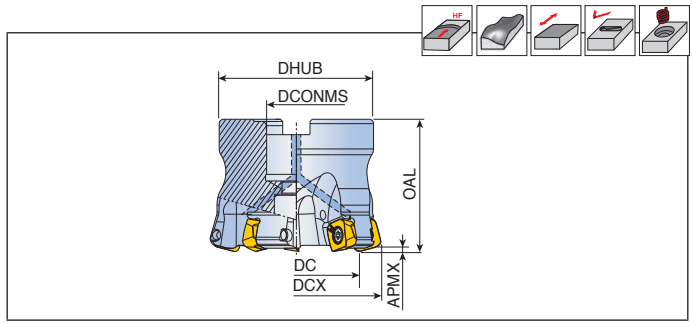
TaeguTec

TFMSB-13

CHASEFEED

High feed face mills





Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMSB 350-22R-13	3	50	29.3	22	45	40	2.0	●	A	0.3	LH M10x25	SBMT 1306... E247
450-22R-13	4	50	29.3	22	45	40	2.0	●	A	0.2	LH M10x25	
452-22R-13	4	52	31.3	22	45	40	2.0	●	A	0.3	LH M10x25	
552-22R-13	5	52	31.3	22	45	40	2.0	●	A	0.2	LH M10x25	
463-22R-13	4	63	42.4	22	58	50	2.0	●	A	0.6	SH M10x30	
563-22R-13	5	63	42.4	22	58	50	2.0	●	A	0.5	SH M10x30	
463-27R-13	4	63	42.4	27	58	50	2.0	●	A	0.5	SH M12x35	
566-27R-13	5	66	45.3	27	58	50	2.0	●	A	0.6	SH M12x35	
580-27R-13	5	80	59.4	27	70	60	2.0	●	A	1.3	SH M12x35	
680-27R-13	6	80	59.4	27	70	60	2.0	●	A	1.3	SH M12x35	
580-32R-13	5	80	59.4	32	76	60	2.0	●	A	1.3	SH M16x35	
6100-32R-13	6	100	79.4	32	76	60	2.0	●	A	1.9	SH M16x35	
7125-40R-13	7	125	104.7	40	85	60	2.0	●	A	2.5	SH M20x40	
8160-40R-13	8	160	139.4	40	110	60	2.0	x	C	3.5	-	
9200-60R-13	9	200	179.4	60	130	60	2.0	x	C	5.1	-	
10250-60R-13	10	250	229.4	60	160	60	2.0	x	C	9.1	-	
TFMSB 463-25.4R-13	4	63	42.4	25.4	58	50	2.0	●	A	0.5	SH M12x35	
580-25.4R-13	5	80	59.4	25.4	70	60	2.0	●	A	1.3	SH M12x35	
580-31.75R-13	5	80	59.4	31.75	76	60	2.0	●	A	1.3	SH M16x35	
7125-38.1R-13	7	125	104.7	38.1	80	60	2.0	x	B	2.2	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
TFMSB-13	TS 50115I	T-T20			

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E338

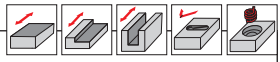
2S-TE90CV-05

End mills



90°

90°	High feed
	



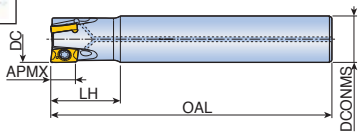


Fig.1

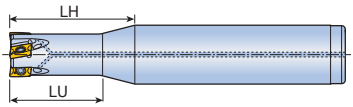


Fig.2

Designation		Dimension (mm)						Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LH	LU	APMX			
2S-TE90CV-106-06-05	1	6	6	60	12	-	5.0	●	1	CVK(H)T 0502...
106-06-05-L50	1	6	6	50	10	-	5.0	●	1	E235
208-07-05	2	8	7	80	12	-	5.0	●	1	
208-08-05	2	8	8	80	12	-	5.0	●	1	
208-08-05-L50	2	8	8	50	10	-	5.0	●	1	
208-12-05	2	8	12	80	25	18	5.0	●	2	
209-08-05	2	9	8	80	12	-	5.0	●	1	
210-10-05	2	10	10	80	15	-	5.0	●	1	
212-12-05	2	12	12	80	15	-	5.0	●	1	
310-09-05	3	10	9	80	12	-	5.0	●	1	
310-10-05	3	10	10	80	15	-	5.0	●	1	
310-10-05-L55	3	10	10	55	12	-	5.0	●	1	
310-16-05-L90	3	10	16	90	34	22	5.0	●	2	
311-10-05	3	11	10	80	12	-	5.0	●	1	
312-12-05	3	12	12	80	15	-	5.0	●	1	
412-11-05	4	12	11	80	12	-	5.0	●	1	
412-12-05	4	12	12	80	15	-	5.0	●	1	
412-12-05-L60	4	12	12	60	14	-	5.0	●	1	
412-16-05-L100	4	12	16	100	34	26	5.0	●	2	
413-12-05	4	13	12	80	12	-	5.0	●	1	
414-12-05	4	14	12	80	10	-	5.0	●	1	
514-14-05-L90	5	14	14	90	15	-	5.0	●	1	

Cutting Condition E271-E273
Ramping Data E286-E287

• Cutter body for '-HF' insert should be modified with body corner radius 1.8 mm

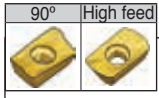
2S-TE90CV-M(S)-05

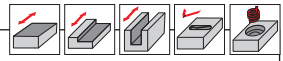
MILLSFEED

Modular heads



90°





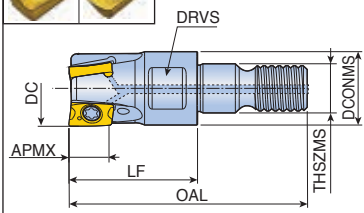


Fig.1

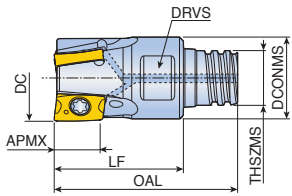


Fig.2

Designation		Dimension (mm)							Coolant hole	Fig.	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX	DRVS			
2S-TE90CV- 208-M04-05	2	8	7.8	10	21.5	M04	5.0	6	●	1	CVK(H)T 0502...
310-M06-05	3	10	9.7	17	31.5	M06	5.0	8	●	1	E235
412-M06-05	4	12	11	17	31.5	M06	5.0	8	●	1	
516-M08-05	5	16	13	23	40.5	M08	5.0	10	●	1	
620-M10-05	6	20	18	23	43.0	M10	5.0	15	●	1	
720-M10-05	7	20	18	23	43.0	M10	5.0	15	●	1	
2S-TE90CV- 208-S05-05	2	8	7.6	10	16.7	S05	5.0	5.5	●	2	
310-S06-05	3	10	9.6	15	21.3	S06	5.0	8	●	2	
412-S08-05	4	12	11.5	16	23.5	S08	5.0	10	●	2	

- Cutter body for '-HF' insert should be modified with body corner radius 1.8 mm
- Matched with T-FLEXTEC holder(Fig.1) & MAXI-RUSH holder(Fig.2)

Spare parts

Designation	Screw	Wrench			
					
2S-TE90CV-05	TS 18033/HG-P	TD 6P			

Cutting Condition E271-E273
Ramping Data E286-E287

4T-TE90-05/09

TANGSFEED

End mills



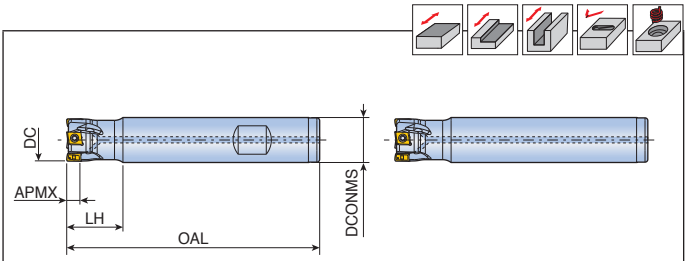


Fig.1 Fig.2

90°

Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LH	APMX			
4T-TE90-210-10-05	2	10	10	80	15	4.6	●	2	LPK(H)U 0502...
211-10-05	2	11	10	80	15	4.6	●	2	E238
212-12-05	2	12	12	80	15	4.6	●	2	
312-12-05	3	12	12	80	15	4.6	●	2	
313-12-05	3	13	12	80	15	4.6	●	2	
316-W16-05	3	16	16	90	20	4.6	●	1	
416-W16-05	4	16	16	90	20	4.6	●	1	
420-W20-05	4	20	20	100	25	4.6	●	1	
520-W20-05	5	20	20	100	25	4.6	●	1	
625-W25-05	6	25	25	110	30	4.6	●	1	
832-W25-05	8	32	25	110	20	4.6	●	1	
4T-TE90-220-W20-09	2	20	20	100	30	8.3	●	1	LPK(H)U 0904...
220-20-09-L170	2	20	20	170	30	8.3	●	2	E238
320-W20-09	3	20	20	100	30	8.3	●	1	
325-W25-09	3	25	25	100	30	8.3	●	1	
325-25-09-L200	3	25	25	200	30	8.3	●	2	
425-W25-09	4	25	25	100	30	8.3	●	1	
425-25-09-L120	4	25	25	120	30	8.3	●	2	
332-W32-09	3	32	32	110	35	8.3	●	1	
332-32-09-L210	3	32	32	210	35	8.3	●	2	
532-W32-09	5	32	32	110	35	8.3	●	1	
532-32-09-L130	5	32	32	130	35	8.3	●	2	
440-W32-09	4	40	32	115	30	8.3	●	1	
440-32-09-L150	4	40	32	150	30	8.3	●	2	
640-W32-09	6	40	32	115	30	8.3	●	1	

Cutting Condition E271-E273
Ramping Data E288

TaeguTec

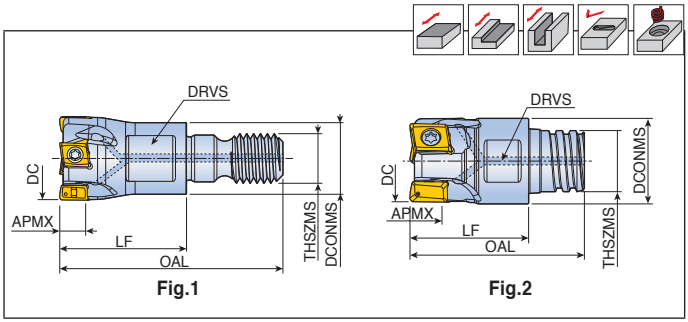
4T-TE90-M(S)-05/09

TANGSFEED

Modular heads



90°



Designation		Dimension (mm)							Coolant hole	Fig.	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX	DRVS			
4T-TE90-210-M06-05	2	10	9.7	17	31.5	M06	4.6	8	●	1	LPK(H)U 0502... E238
312-M06-05	3	12	11	17	31.5	M06	4.6	8	●	1	
416-M08-05	4	16	13	23	40.5	M08	4.6	10	●	1	
520-M10-05	5	20	18	23	43	M10	4.6	15	●	1	
625-M12-05	6	25	21	27	49	M12	4.6	17	●	1	
832-M16-05	8	32	29	27	52	M16	4.6	25	●	1	
4T-TE90-210-S06-05	2	10	9.6	15	21.3	S06	4.6	8	●	2	
312-S08-05	3	12	11.5	16	23.5	S08	4.6	10	●	2	
416-S10-05	4	16	15.2	20	31.3	S10	4.6	13	●	2	
4T-TE90-220-M10-09	2	20	18	30	50	M10	8.3	15	●	1	LPK(H)U 0904... E238
320-M10-09	3	20	18	30	50	M10	8.3	15	●	1	
425-M12-09	4	25	21	35	57	M12	8.3	17	●	1	
532-M16-09	5	32	29	43	68	M16	8.3	25	●	1	
640-M16-09	6	40	29	43	68	M16	8.3	25	●	1	

• Matched with T-FLEXTEC holder(Fig.1) & MAXI-RUSH holder(Fig.2)

Spare parts

Designation	Screw	Wrench		Wrench handle	
					
4T-TE90-05	TS 18041I/SG-P	TD 6P	-	-	
4T-TE90-09	TS 30D082-P	-	TBLD T08P-W4	THND 4W	

Cutting Condition E271-E273
Ramping Data E288

ADVANCE MACHINING TaeguTec Industry 4.0

3P-TE90-04

MILLRUSH

End mills



90°

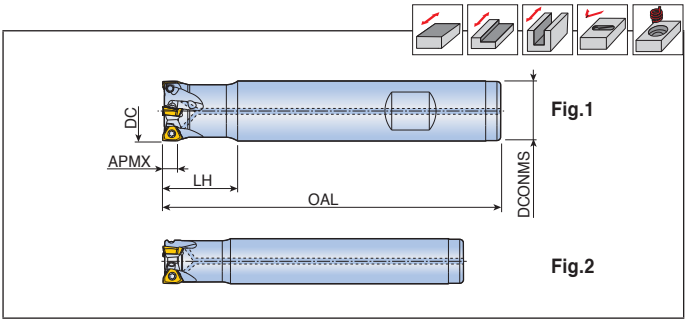


Fig.1

Fig.2

Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LH	APMX			
3P-TE90-108-08-04	1	8	8	80	17	3.5	●	2	3PKT 0402...
210-10-04	2	10	10	80	17	3.5	●	2	E216
210-09-04-L	2	10	9	120	10	3.5	●	2	
211-10-04	2	11	10	80	11	3.5	●	2	
212-11-04-L	2	12	11	120	11	3.5	●	2	
212-12-04	2	12	12	80	18	3.5	●	2	
212-12-04-L	2	12	12	120	18	3.5	●	2	
312-12-04	3	12	12	80	18	3.5	●	2	
313-12-04	3	13	12	90	11	3.5	●	2	
314-12-04	3	14	12	90	12	3.5	●	2	
316-16-04	3	16	16	110	20	3.5	●	2	
416-W16-04	4	16	16	90	20	3.5	●	1	

Cutting Condition E271-E273

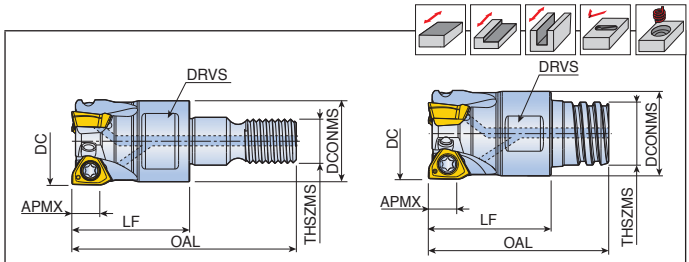
Ramping Data E290

3P-TE90-M(S)-04

Modular heads



90°



Designation		Dimension (mm)							Coolant hole	Fig.	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX	DRVS			
3P-TE90-210-M06-04	2	10	9.7	17	31.5	M06	3.5	8	●	1	3PKT 0402...
312-M06-04	3	12	11	17	31.5	M06	3.5	8	●	1	E216
416-M08-04	4	16	13	23	40.5	M08	3.5	10	●	1	
3P-TE90-210-S06-04	2	10	9.6	15	21.3	S06	3.5	8	●	2	
312-S08-04	3	12	11.5	16	23.5	S08	3.5	10	●	2	
416-S10-04	4	16	15.2	20	31.3	S10	3.5	13	●	2	

• Matched with T-FLEXTEC holder(Fig.1) & MAXI-RUSH holder(Fig.2)

Spare parts

Designation	Screw	Wrench			
					
3P-TE90-04 (ø8)	TS 18033/HG-P	TD 6P			
3P-TE90-04 (ø10-)	TS 18041I/HG	TD 6P			

Cutting Condition E271-E273
Ramping Data E290

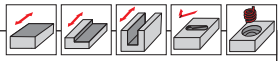
3P TE90-06

MILLRUSH

End mills



90°



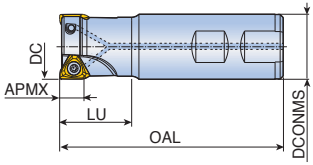


Fig.1



Fig.2

Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LU	APMX			
3P TE90-112-12-06-L80	1	12	12	80	20	4.7	●	2	3PK(H)T 0603...
114-12-06-L80	1	14	12	80	20	4.7	●	2	E216
216-W16-06	2	16	16	90	25	4.7	●	1	
216-16-06-L110	2	16	16	110	25	4.7	●	2	
216-16-06-L150	2	16	16	150	25	4.7	●	2	
317-16-06-L110	3	17	16	110	25	4.7	●	2	
318-W16-06	3	18	16	90	25	4.7	●	1	
318-16-06-L150	3	18	16	150	25	4.7	●	2	
319-16-06-L150	3	19	16	150	25	4.7	●	2	
320-W20-06	3	20	20	105	25	4.7	●	1	
420-W20-06	4	20	20	105	25	4.7	●	1	
320-20-06-L160	3	20	20	160	25	4.7	●	2	
420-19-06-L160	4	20	19	160	25	4.7	●	2	
421-20-06-L160	4	21	20	160	25	4.7	●	2	
422-W20-06	4	22	20	110	25	4.7	●	1	
425-W20-06	4	25	20	115	25	4.7	●	1	
525-W20-06	5	25	20	115	25	4.7	●	1	
525-W25-06	5	25	25	115	25	4.7	●	1	
630-W25-06	6	30	25	130	30	4.7	●	1	
632-W25-06	6	32	25	130	30	4.7	●	1	
732-W25-06	7	32	25	130	30	4.7	●	1	
840-W32-06	8	40	32	130	30	4.7	●	1	

Cutting Condition E271-E273

Ramping Data E291

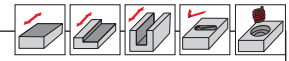
3P TE90-10

End mills









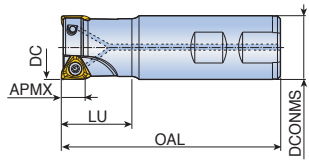


Fig.1



Fig.2

Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LU	APMX			
3P TE90-116-W16-10	1	16	16	90	20	7.0	●	1	3PK(H)T 1004...
220-W20-10	2	20	20	90	25	7.0	●	1	E216
220-19-10-L170	2	20	19	170	30	7.0	x	2	
220-20-10-L170	2	20	20	170	40	7.0	x	2	
221-20-10-L200	2	21	20	200	30	7.0	x	2	
222-W20-10	2	22	20	100	25	7.0	●	1	
225-25-10-L210	2	25	25	210	40	7.0	x	2	
325-W20-10	3	25	20	100	30	7.0	●	1	
325-W25-10	3	25	25	100	30	7.0	●	1	
325-24-10-L210	3	25	24	210	35	7.0	x	2	
325-25-10-L210	3	25	25	210	40	7.0	x	2	
226-25-10-L250	2	26	25	250	30	7.0	x	2	
330-W25-10	3	30	25	110	35	7.0	●	1	
232-W25-10	2	32	25	110	35	7.0	●	1	
332-W25-10	3	32	25	110	35	7.0	●	1	
332-32-10-L250	3	32	32	250	60	7.0	x	2	
432-W32-10	4	32	32	110	40	7.0	●	1	
532-W32-10	5	32	32	110	40	7.0	●	1	
333-32-10-L250	3	33	32	250	35	7.0	x	2	
440-32-10-L200	4	40	32	200	40	7.0	x	2	
540-W32-10	5	40	32	115	40	7.0	●	1	
640-W32-10	6	40	32	115	40	7.0	●	1	

Cutting Condition E271-E273
Ramping Data E291

3P TE90-15/19

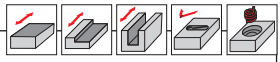
MILLRUSH

End mills





90°	Splitter
	



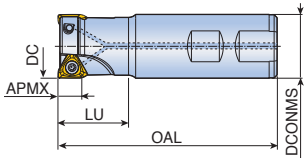


Fig.1



Fig.2

Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LU	APMX			
3P TE90-	**232-W32-15**	32	32	110	40	11.0	●	1	3PK(H)T 1505...
	232-32-15-L250	32	32	250	60	11.0	x	2	E216-E217
	332-W25-15	32	25	100	40	11.0	●	1	
	332-W25-15-L155	32	25	155	35	11.0	x	2	
	332-W32-15	32	32	110	40	11.0	●	1	
	332-32-15-L150	32	32	150	40	11.0	x	2	
	332-32-15-L250	32	32	250	60	11.0	x	2	
	233-32-15-L200	33	32	200	40	11.0	x	2	
	233-32-15-L250	33	32	250	40	11.0	x	2	
	335-W32-15	35	32	110	40	11.0	●	1	
	340-W32-15	40	32	110	40	11.0	●	1	
	340-32-15-L200	40	32	200	40	11.0	x	2	
	440-W32-15	40	32	110	40	11.0	●	1	
3P TE90-	**240-32-19-L250**	40	32	250	45	15.0	x	2	3PK(H)T 1906...
	340-W32-19	40	32	115	45	15.0	●	1	E216-E217
	340-32-19-L200	40	32	200	45	15.0	x	2	
	450-W32-19	50	32	115	45	15.0	●	1	

Cutting Condition E271-E273

Ramping Data E292

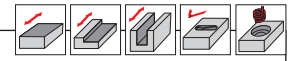
3P TE90-M-06/10/15/19

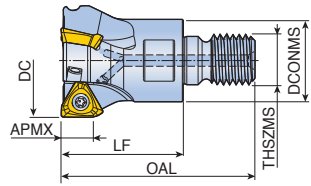
MILLRUSH

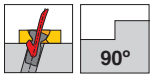
Modular heads



90°	Splitter
	15,19







Designation		Dimension (mm)						Coolant hole	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX		
3P TE90-216-M08-06	2	16	13	23	40.5	M08	4.7	•	3PK(H)T 0603...
320-M10-06	3	20	18	35	55	M10	4.7	•	E216
420-M10-06	4	20	18	35	55	M10	4.7	•	
425-M12-06	4	25	21	35	57	M12	4.7	•	
525-M12-06	5	25	21	35	57	M12	4.7	•	
632-M16-06	6	32	29	43	68	M16	4.7	•	
732-M16-06	7	32	29	43	68	M16	4.7	•	
735-M16-06	7	35	29	43	68	M16	4.7	•	
3P TE90-220-M10-10	2	20	18	35	55	M10	7.0	•	3PK(H)T 1004...
325-M12-10	3	25	21	35	57	M12	7.0	•	E216
326-M12-10	3	26	21	35	57	M12	7.0	•	
432-M16-10	4	32	29	43	68	M16	7.0	•	
532-M16-10	5	32	29	43	68	M16	7.0	•	
535-M16-10	5	35	29	43	68	M16	7.0	•	
540-M16-10	5	40	29	43	68	M16	7.0	•	
640-M16-10	6	40	29	43	68	M16	7.0	•	
642-M16-10	6	42	29	43	68	M16	7.0	•	
3P TE90-232-M16-15	2	32	29	43	68	M16	11.0	•	3PK(H)T 1505...
332-M16-15	3	32	29	43	68	M16	11.0	•	E216-E217
340-M16-15	3	40	29	43	68	M16	11.0	•	
440-M16-15	4	40	29	43	68	M16	11.0	•	
3P TE90-340-M16-19	3	40	29	43	68	M16	15.0	•	3PK(H)T 1906...
									E216-E217

• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench			
3P TE90-06	TS 20043I/HG-P	TD 6P	-		
3P TE90-10	TS 25C065I/HG	TD 8	-		
3P TE90-15	TS 40B100I	TD 15	-		
3P TE90-19	TS 45120I	-	T-T20		

Cutting Condition E271-E273
Ramping Data E291-E292

ADVANCE MACHINING
TaeguTec Industry 4.0

6N TE90-04/06/09

MILL2RUSH

End Mills



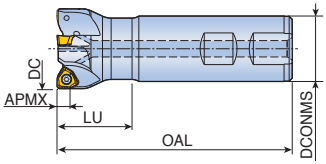


Fig.1



Fig.2

90°

Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LU	APMX			
6N TE90-320-W20-04	3	20	20	90	30	4.1	●	1	6NKU 0403... E222
320-20-04-L160	3	20	20	160	30	4.1	●	2	
425-25-04-L170	4	25	25	170	30	4.1	●	2	
525-W25-04	5	25	25	100	35	4.1	●	1	
532-32-04-L200	5	32	32	200	40	4.1	●	2	
632-W32-04	6	32	32	110	40	4.1	●	1	
6N TE90-225-W25-06	2	25	25	100	30	6.2	●	1	6NGU 0604... E221
225-25-06 -L150	2	25	25	150	30	6.2	●	2	
232-W32-06	2	32	32	110	40	6.2	●	1	
232-32-06 -L160	2	32	32	160	40	6.2	●	2	
332-W32-06	3	32	32	110	40	6.2	●	1	
332-32-06 -L160	3	32	32	160	40	6.2	●	2	
340-W32-06	3	40	32	115	40	6.2	●	1	
340-32-06-L200	3	40	32	200	40	6.2	●	2	
440-W32-06	4	40	32	115	40	6.2	●	1	
6N TE90-232-W32-09	2	32	32	110	40	9.2	●	1	6NGU 0905... E221
232-32-09-L160	2	32	32	160	60	9.2	●	2	
340-W32-09	3	40	32	120	40	9.2	●	1	
340-32-09-L200	3	40	32	200	40	9.2	●	2	
440-W32-09	4	40	32	120	40	9.2	●	1	

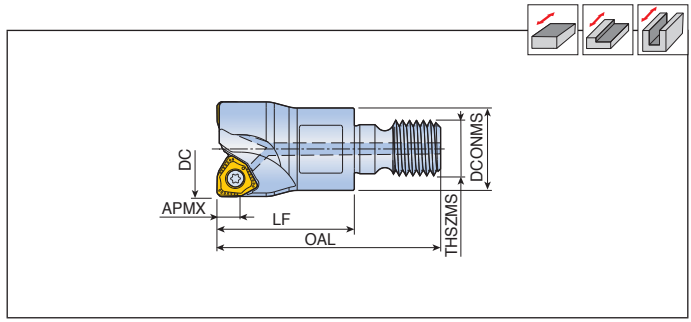
Cutting Condition E271-E273

6N TE90-...-M...-04/06/09

MILL2RUSH

Modular heads





90°

Designation		Dimension (mm)						Coolant hole	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX		
6N TE90-320-M10-04	3	20	18	35	55	M10	4.1	•	6NKU 0403... E222
525-M12-04	5	25	21	35	57	M12	4.1	•	
632-M16-04	6	32	29	43	68	M16	4.1	•	
6N TE90-225-M12-06	2	25	21	35	57	M12	6.2	•	6NGU 0604... E221
332-M16-06	3	32	29	43	68	M16	6.2	•	
440-M16-06	4	40	29	43	68	M16	6.2	•	
6N TE90-232-M16-09	2	32	29	43	68	M16	9.2	•	6NGU 0905... E221
340-M16-09	3	40	29	43	68	M16	9.2	•	
440-M16-09	4	40	29	43	68	M16	9.2	•	

• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench			
					
6N TE90-04	TS 25064I	TD 8			
6N TE90-06	TS 30085I/HG	TD 9			
6N TE90-09	TS 40B100I	TD15			

Cutting Condition E271-E273

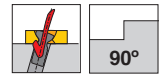
ADVANCE MACHINING TaeguTec Industry 4.0

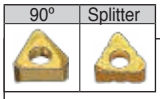
SCRM90TN-18/SCRM90TN-M-18

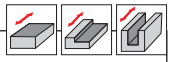
MILL2RUSH

End Mills & Modular heads









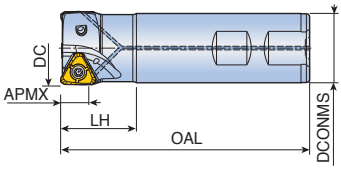


Fig.1

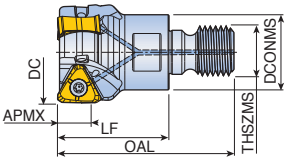


Fig.2

Designation		Dimension (mm)							Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LH	LF	THSZMS	APMX			
SCRM90TN 235-W32-18	2	35	32	115	35	-	-	13.0	●	1	TNMX 1806...
340-W32-18	3	40	32	115	35	-	-	13.0	●	1	E261
SCRM90TN 235-M16-18	2	35	29	68	-	43	M16	13.0	●	2	
340-M16-18	3	40	29	68	-	43	M16	13.0	●	2	

• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench			
					
SCRM90TN-18	TS 40B100I	T-T15			

Cutting Condition
E271-E273

TaeguTec

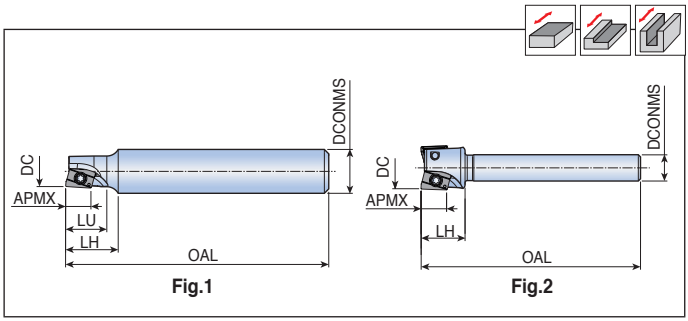
MTE90AX-06-L

CHASEMILL

End mills



90°



Designation		Dimension (mm)						Fig.	Insert
		DC	DCONMS	OAL	LU	LH	APMX		
MTE90AX 108-10-06-L60	1	8	10	60	9	12	5.5	1	AXCT 06-L... E230
210-05-06-L40	2	10	5	40	-	10	5.5	2	
210-06-06-L50	2	10	6	50	-	10	5.5	2	
210-07-06-L50	2	10	7	50	-	10	5.5	2	
210-10-06-L50	2	10	10	50	10	12	5.5	1	
212-10-06-L50	2	12	10	50	-	10	5.5	2	
214-10-06-L50	2	14	10	50	-	10	5.5	2	
315-05-06-L40	3	15	5	40	-	10	5.5	2	
316-07-06-L50	3	16	7	50	-	10	5.5	2	
316-10-06-L50	3	16	10	50	-	10	5.5	2	
320-07-06-L50	3	20	7	50	-	10	5.5	2	
320-10-06-L50	3	20	10	50	-	10	5.5	2	
530-10-06-L50	5	30	10	50	-	10	5.5	2	

Spare parts

Designation	Screw	Wrench			
MTE90AX-06-L	TS 18041I/HG	TD 6P			

Cutting Condition
E271-E273

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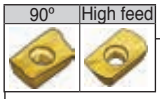
TE90AX-06

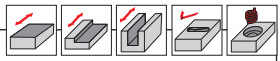
CHASEMILL

End mills



90°





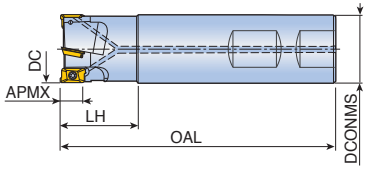


Fig.1

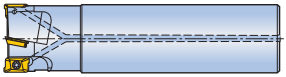


Fig.2

Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LH	APMX			
TE90AX 108-08-06-C	1	8	8	80	17	5.5	●	2	AXM(C)T 0602 ...
210-09-06-L120	2	10	9	120	17	5.5	x	2	E230-E231
210-10-06-C	2	10	10	80	17	5.5	●	2	
211-10-06	2	11	10	80	17	5.5	x	2	
212-12-06-C	2	12	12	80	18	5.5	●	2	
212-12-06-L	2	12	12	130	18	5.5	x	2	
212-11-06-L120	2	12	11	120	20	5.5	x	2	
312-12-06-C	3	12	12	80	18	5.5	●	2	
313-12-06-C	3	13	12	90	20	5.5	●	2	
314-12-06	3	14	12	80	18	5.5	x	2	
415-12-06	4	15	12	80	18	5.5	x	2	
316-16-06-C	3	16	16	110	20	5.5	●	2	
316-16-06-L	3	16	16	150	20	5.5	x	2	
416-W16-06-C	4	16	16	90	20	5.5	●	1	
417-16-06	4	17	16	90	20	5.5	x	2	
418-W16-06-C	4	18	16	90	20	5.5	●	1	
418-16-06-L	4	18	16	150	20	5.5	x	2	
419-W16-06	4	19	16	90	20	5.5	x	1	
420-20-06	4	20	20	160	25	5.5	x	2	
420-W20-06-C	4	20	20	160	25	5.5	●	1	
520-19-06-L	5	20	19	160	25	5.5	x	1	
520-W20-06-C	5	20	20	105	25	5.5	●	1	
521-20-06	5	21	20	105	25	5.5	x	2	
725-W20-06-C	7	25	20	115	25	5.5	●	1	
725-W25-06	7	25	25	120	30	5.5	x	1	
832-W25-06-C	8	32	25	130	32	5.5	●	1	
1040-W32-06-C	10	40	32	140	40	5.5	●	1	

Cutting Condition E271-E273
Ramping Data E314,E318

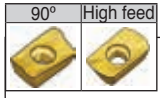
TE90AX-M(S)-06

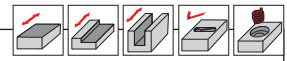
CHASEMILL

Modular heads



90°





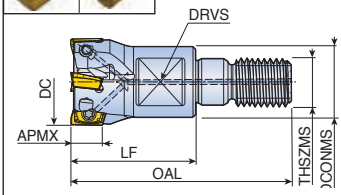


Fig.1

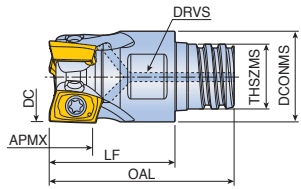


Fig.2

Designation		Dimension (mm)							Coolant hole	Fig.	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX	DRVS			
TE90AX 210-M06-06	2	10	9.7	17	31.5	M06	5.5	8	●	1	AXM(C)T 0602...
312-M06-06	3	12	11	17	31.5	M06	5.5	8	●	1	E230-E231
416-M08-06	4	16	13	23	40.5	M08	5.5	10	●	1	
520-M10-06	5	20	18	23	43	M10	5.5	15	●	1	
725-M12-06	7	25	21	27	49	M12	5.5	17	●	1	
832-M16-06	8	32	29	27	52	M16	5.5	25	●	1	
1040-M16-06	10	40	29	27	52	M16	5.5	25	●	1	
TE90AX 210-S06-06	2	10	9.6	15	21.3	S06	5.5	8	●	2	
312-S08-06	3	12	11.5	16	23.5	S08	5.5	10	●	2	
416-S10-06	4	16	15.2	20	31.3	S10	5.5	13	●	2	

- Matched with T-FLEXTEC holder(Fig.1) & MAXI-RUSH holder(Fig.2)
- Cutter body for 'AXMT 06' insert with corner radius more than 1.0mm should be modified accordingly body "RE"=Insert "RE"-0.1mm

Spare parts

Designation	Screw	Wrench			
					
TE90AX-06	TS 18041I/HG	TD 6P			

Cutting Condition E271-E273
Ramping Data E314,E318

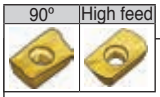
2S-TE90AP-09

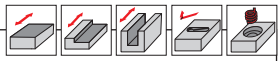
CHASEMILL

End mills



90°





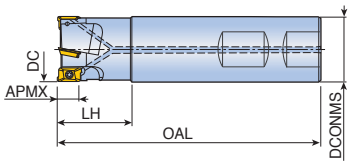


Fig.1

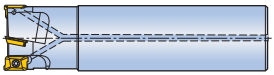


Fig.2

Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LH	APMX			
2S-TE90AP 110-W10-09-C	1	10	10	80	25	8.8	●	1	APK(C)T 09T3...
112-W12-09	1	12	12	80	25	8.8	x	1	E225,E230
112-W16-09-C	1	12	16	80	26	8.8	●	1	
114-W12-09	1	14	12	80	25	8.8	x	1	
216-15-09-L	2	16	15	170	30	8.8	x	2	
216-W16-09-C	2	16	16	90	25	8.8	●	1	
216-16-09-L	2	16	16	145	30	8.8	x	2	
217-16-09-L	2	17	16	180	25	8.8	x	2	
218-W16-09-C	2	18	16	90	25	8.8	●	1	
220-19-09-L	2	20	19	170	25	8.8	x	2	
220-20-09-L	2	20	20	170	40	8.8	x	2	
320-W20-09-C	3	20	20	110	30	8.8	●	1	
221-20-09-L	2	21	20	200	25	8.8	x	2	
322-W20-09-C	3	22	20	110	30	8.8	●	1	
225-24-09-L	2	25	24	210	28	8.8	x	2	
225-25-09-L	2	25	25	210	40	8.8	x	2	
325-W20-09-C	3	25	20	110	30	8.8	●	1	
325-W25-09	3	25	25	110	30	8.8	x	1	
425-W20-09-C	4	25	20	110	30	8.8	●	1	
226-25-09-L	2	26	25	250	40	8.8	x	2	
430-W25-09-C	4	30	25	130	32	8.8	●	1	
232-32-09-L	2	32	32	250	65	8.8	x	2	
432-W25-09-C	4	32	25	130	32	8.8	●	1	
532-W25-09-C	5	32	25	130	32	8.8	●	1	
333-32-09-L	3	33	32	250	40	8.8	x	2	
240-32-09-L	2	40	32	250	32	8.8	x	2	
540-W32-09-C	5	40	32	130	32	8.8	●	1	
640-W32-09	6	40	32	130	32	8.8	x	1	

Cutting Condition E271-E273
Ramping Data E315,E319

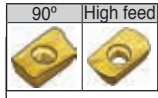
2S-TE90AP-M-09

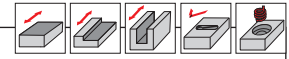
CHASEMILL

Modular heads



90°





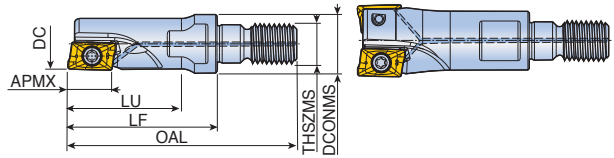


Fig.1 Fig.2

Designation		Dimension (mm)							Coolant hole	Fig.	Insert
		DC	DCONMS	LF	OAL	LU	THSZMS	APMX			
2S-TE90AP 110-M06-09	1	10	9.7	33	47.5	19	M06	8.8	●	1	APK(C)T 09T3...
112-M08-09	1	12	13	33	50.5	25	M08	8.8	●	1	E225,E230
216-M08-09	2	16	13	38	50.5	-	M08	8.8	●	2	
320-M10-09	3	20	18	38	58	-	M10	8.8	●	2	
325-M12-09	3	25	21	38	60	-	M12	8.8	●	2	
425-M12-09	4	25	21	38	60	-	M12	8.8	●	2	
432-M16-09	4	32	29	38	63	-	M16	8.8	●	2	
532-M16-09	5	32	29	38	63	-	M16	8.8	●	2	
540-M16-09	5	40	29	43	68	-	M16	8.8	●	2	
640-M16-09	6	40	29	43	68	-	M16	8.8	●	2	

- Matched with T-FLEXTEC holder
- Cutter body for 'APKT09' insert with corner radius more than 2.4mm should be modified accordingly body “RE”=Insert “RE”-0.2mm

Spare parts

Designation	Screw	Wrench			
2S-TE90AP-09	TS 25055I/HG	TD 8			

Cutting Condition E271-E273
Ramping Data E315,E319

TE90AP-12

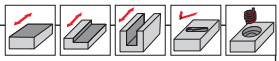
CHASEMILL

End mills



90°





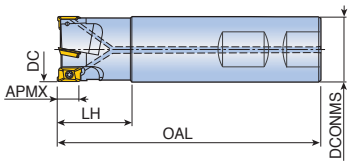


Fig.1

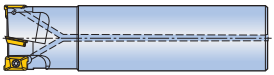


Fig.2

Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LH	APMX			
TE90AP 116-W16-12-C	1	16	16	85	26	12.0	●	1	APK(C)T 1204....
218-W20-12-C	2	18	20	85	26	12.0	●	1	E226,E230
220-19-12-L	2	20	19	170	30	12.0	●	2	
220-W20-12-C	2	20	20	90	30	12.0	●	1	
220-W20-12-L-C	2	20	20	125	30	12.0	●	1	
220-20-12-L	2	20	20	170	30	12.0	●	2	
220-20-12-L200	2	20	20	200	30	12.0	●	2	
221-20-12-L200	2	21	20	200	30	12.0	●	2	
221-20-12-L250	2	21	20	250	30	12.0	●	2	
225-24-12-L	2	25	24	200	40	12.0	●	2	
225-W25-12-L-C	2	25	25	145	40	12.0	●	1	
225-25-12-L	2	25	25	210	40	12.0	●	2	
225-25-12-L200	2	25	25	200	40	12.0	●	2	
325-W25-12-C	3	25	25	100	40	12.0	●	1	
226-25-12-L200	2	26	25	200	40	12.0	●	2	
226-25-12-L250	2	26	25	250	40	12.0	●	2	
232-25-12-L	2	32	25	250	40	12.0	●	2	
332-W25-12-L-C	3	32	25	155	35	12.0	●	1	
332-W32-12-C	3	32	32	110	40	12.0	●	1	
332-32-12-L	3	32	32	250	40	12.0	●	2	
332-32-12-L150	3	32	32	150	40	12.0	●	2	
432-W25-12-C	4	32	25	100	40	12.0	●	1	
233-32-12-L200	2	33	32	200	40	12.0	●	2	
233-32-12-L250	2	33	32	250	40	12.0	●	2	
333-32-12-L200	3	33	32	200	40	12.0	●	2	
333-32-12-L250	3	33	32	250	40	12.0	●	2	
435-W25-12	4	35	25	100	40	12.0	●	1	
440-W32-12-C	4	40	32	115	45	12.0	●	1	
440-32-12-L	4	40	32	250	40	12.0	●	2	
540-W32-12-C	5	40	32	115	45	12.0	●	1	

Cutting Condition E271-E273
Ramping Data E316,E320

TaeguTec

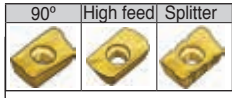
TE90AP-M-12

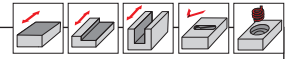
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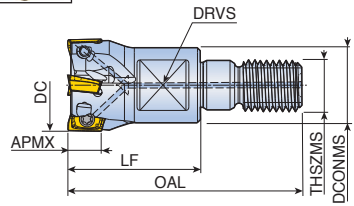
Modular heads



90°







Designation		Dimension (mm)						Coolant hole	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX		
TE90AP 116-M08-12	1	16	13	35	52.5	M08	12.0	●	APK(C)T 1204...
220-M10-12	2	20	18	35	55	M10	12.0	●	E226,E230
325-M12-12	3	25	21	35	57	M12	12.0	●	
432-M16-12	4	32	29	43	68	M16	12.0	●	
540-M16-12	5	40	29	43	68	M16	12.0	●	
542-M16-12	5	42	29	43	68	M16	12.0	●	

- Matched with T-FLEXTEC holder
- Cutter body for 'APKT 12' insert with corner radius more than 1.6mm should be modified accordingly body "RE"=Insert "RE"-0.5mm

Spare parts

Designation	Screw	Wrench			
					
TE90AP-12 (Ø16-Ø26)	TS 35A070I/HG	TD 10P			
TE90AP-12 (Ø32-)	TS 35A088I/HG	TD 10P			

Cutting Condition E271-E273
Ramping Data E316,E320

TE90AP-17

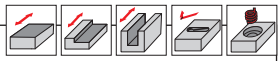
CHASEMILL

End mills



90°

90°	Splitter
	



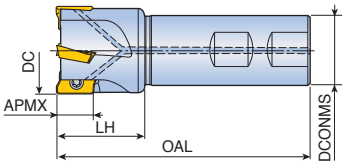


Fig.1

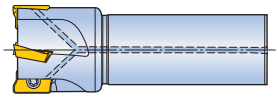


Fig.2

Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LH	APMX			
TE90AP 120-W20-17-C	1	20	20	90	32	16.1	●	1	APK(C)T 1705/1706...
225-24-17-L	2	25	24	210	40	16.1	x	2	E227-E228
225-W25-17-C	2	25	25	100	39	16.1	●	1	
225-25-17-L	2	25	25	210	40	16.1	x	2	
226-25-17-L200	2	26	25	200	40	16.1	●	2	
226-25-17-L250	2	26	25	250	40	16.1	●	2	
232-32-17-L	2	32	32	250	65	16.1	x	2	
233-32-17-L250	2	33	32	250	40	16.1	●	2	
233-32-17-L300	2	33	32	300	40	16.1	●	2	
332-W32-17-C	3	32	32	110	40	16.1	●	1	
332-32-17-L	3	32	32	200	65	16.1	x	2	
333-32-17-L200	3	33	32	200	55	16.1	●	2	
333-32-17-L250	3	33	32	250	55	16.1	●	2	
240-32-17-L	2	40	32	250	57	16.1	x	2	
340-W32-17	3	40	32	110	40	16.1	x	1	
340-32-17-L	3	40	32	200	54	16.1	x	2	
440-W32-17-C	4	40	32	115	45	16.1	●	1	
440-32-17-L	4	40	32	200	57	16.1	x	2	

Cutting Condition E271-E273
Ramping Data E317

TaeguTec

TE90AP-M-17

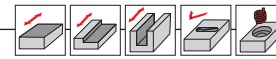
CHASEMILL

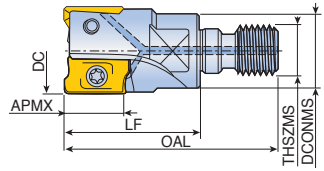
Modular heads



90°

90°	Splitter
	





Designation		Dimension (mm)						Coolant hole	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX		
TE90AP 120-M10-17	1	20	18	43	63	M10	16.1	●	APK(C)T 1705/1706...
225-M12-17	2	25	21	43	65	M12	16.1	●	E227-E228
232-M16-17	2	32	29	43	68	M16	16.1	●	
332-M16-17	3	32	29	43	68	M16	16.1	●	
340-M16-17	3	40	29	43	68	M16	16.1	●	
440-M16-17	4	40	29	43	68	M16	16.1	●	

- Matched with T-FLEXTEC holder
- Cutter body for 'APKT 17' insert with corner radius more than 1.6mm should be modified accordingly body "RE"=Insert "RE"-0.8mm

Spare parts

Designation	Screw	Wrench			
					
TE90AP-17 (Ø20-Ø25)	TS 40085I/HG	TD 15			
TE90AP-17 (Ø26-Ø63)	TS 40093I/HG	TD 15			

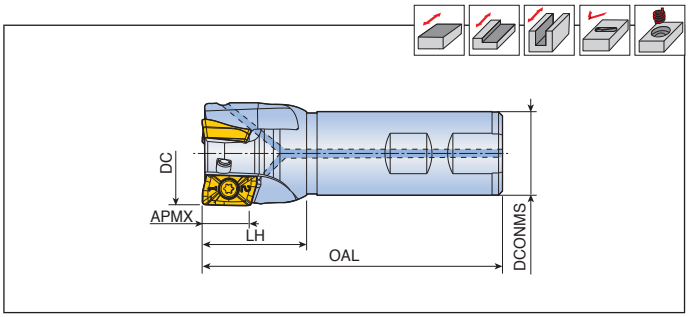
Cutting Condition E271-E273
Ramping Data E317

2S-TE90AP-19

CHASEMILL

End mills





90°

Designation		Dimension (mm)					Coolant hole	Insert
		DC	DCONMS	OAL	LH	APMX		
2S-TE90AP 340-W32-19	3	40	32	115	40	17.9	•	APKT 1907... E229

Spare parts

Designation	Screw	Wrench			
2S-TE90AP-19	TS 50115I	TD 20			

Cutting Condition E271-E273

Ramping Data E317

TaeguTec

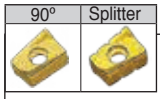
TE90AN-11/16

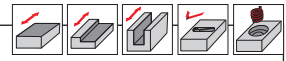
CHASE2MILL

End mills



90°





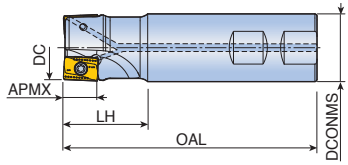


Fig.1

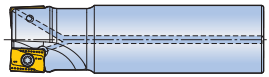


Fig.2

Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LH	APMX			
TE90AN 225-24-11-L	2	25	24	200	40	11.0	●	2	ANM(H)X 1106...
225-W25-11	2	25	25	100	40	11.0	●	1	E224
225-25-11-L	2	25	25	200	40	11.0	●	2	
226-25-11-L	2	26	25	200	40	11.0	●	2	
332-W32-11	3	32	32	110	40	11.0	●	1	
332-32-11-L	3	32	32	200	40	11.0	●	2	
233-32-11-L	2	33	32	250	40	11.0	●	2	
333-32-11-L	3	33	32	200	40	11.0	●	2	
340-32-11-L	3	40	32	250	40	11.0	●	2	
440-W32-11	4	40	32	115	40	11.0	●	1	
440-32-11-L	4	40	32	200	40	11.0	●	2	
TE90AN 232-W32-16	2	32	32	110	30	15.0	●	1	ANM(H)X 1607...
232-32-16	2	32	32	150	45	15.0	●	2	E224
232-32-16-L250	2	32	32	250	40	15.0	●	2	
233-32-16-L200	2	33	32	200	55	15.0	●	2	
340-W32-16	3	40	32	115	35	15.0	●	1	
340-32-16	3	40	32	150	45	15.0	●	2	
340-32-16-L250	3	40	32	250	45	15.0	●	2	
450-32-16	4	50	32	150	50	15.0	●	2	

Cutting Condition E271-E273
Ramping Data E321

TE90AN-M-11/16

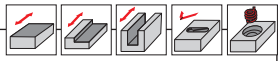
CHASE2MILL

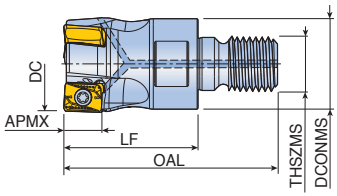
Modular heads



90°

90°	Splitter
	





Designation		Dimension (mm)						Coolant hole	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX		
TE90AN 225-M12-11	2	25	21	35	57	M12	11.0	●	ANM(H)X 1106...
332-M16-11	3	32	29	43	68	M16	11.0	●	E224
440-M16-11	4	40	29	43	68	M16	11.0	●	
TE90AN 232-M16-16	2	32	29	43	68	M16	15.0	●	ANM(H)X 1607...
340-M16-16	3	40	29	43	68	M16	15.0	●	E224

• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench			
					
TE90AN-11	TS 35A088I/HG	TD 10P			
TE90AN-16	TS 40120I	TD 15			

Cutting Condition E271-E273
Ramping Data E321

4N TE90-04

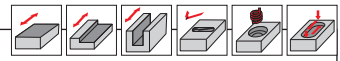
CHASE4MILL

End mills



90°





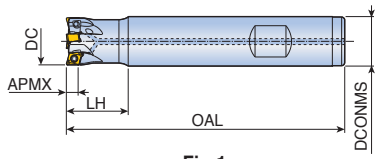


Fig.1



Fig.2

Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LH	APMX			
4N TE90-108-08-04	1	8	8	80	17	3.5	●	2	4NKT 0402...
210-10-04	2	10	10	80	17	3.5	●	2	E218-E219
211-10-04	2	11	10	80	17	3.5	●	2	
212-12-04	2	12	12	80	18	3.5	●	2	
312-12-04	3	12	12	80	18	3.5	●	2	
313-12-04	3	13	12	90	20	3.5	●	2	
316-16-04	3	16	16	90	20	3.5	●	2	
416-W16-04	4	16	16	90	20	3.5	●	1	
420-20-04-L	4	20	20	160	25	3.5	●	2	
520-W20-04	5	20	20	105	25	3.5	●	1	
725-W25-04	7	25	25	120	30	3.5	●	1	
832-W25-04	8	32	25	130	35	3.5	●	1	
1040-W32-04	10	40	32	140	40	3.5	●	1	

Cutting Condition E271-E273
Ramping Data E293-E313

• Cutter body for '4NKT 040212R-HF' insert should be modified with body corner radius 1.2 mm

4N TE90-M(S)-04

CHASE4MILL

Modular heads



90°

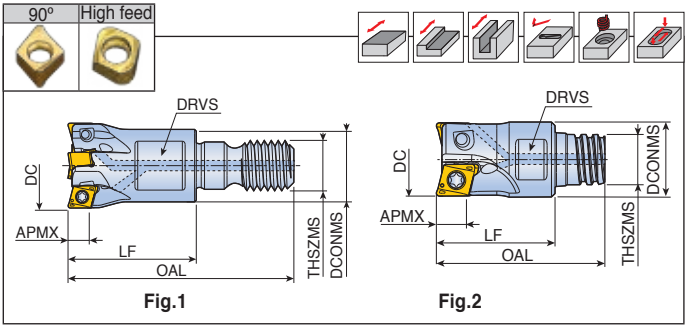


Fig.1 Fig.2

Designation		Dimension (mm)							Coolant hole	Fig.	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX	DRVS			
4N TE90- 210-M06-04	2	10	9.7	17	31.5	M06	3.5	8	●	1	4NKT 0402...
211-M06-04	2	11	9.7	17	31.5	M06	3.5	8	●	1	E218-E219
312-M06-04	3	12	11	17	31.5	M06	3.5	8	●	1	
313-M06-04	3	13	11	17	31.5	M06	3.5	8	●	1	
416-M08-04	4	16	13	23	40.5	M08	3.5	10	●	1	
520-M10-04	5	20	18	23	43	M10	3.5	15	●	1	
725-M12-04	7	25	21	27	49	M12	3.5	17	●	1	
4N TE90- 210-S06-04	2	10	9.6	15	21.3	S06	3.5	8	●	2	
312-S08-04	3	12	11.5	16	23.5	S08	3.5	10	●	2	
416-S10-04	4	16	15.2	20	31.3	S10	3.5	13	●	2	

- Cutter body for '4NKT 040212R-HF' insert should be modified with body corner radius 1.2 mm
- Matched with T-FLEXTEC holder(Fig.1) & MAXI-RUSH holder(Fig.2)

Spare parts

Designation	Screw	Wrench			
					
4N TE90-04	TS 18041I/HG	TD 6P			

Cutting Condition E271-E273
Ramping Data E293-E313

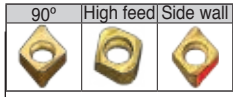
4N TE90-06

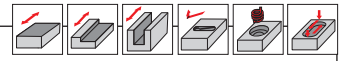
CHASE4MILL

End mills



90°





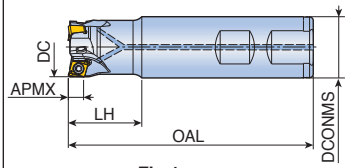


Fig.1

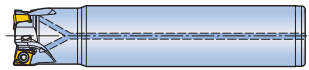


Fig.2

Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LH	APMX			
4N TE90-216-15-06-L150	2	16	15	150	25	6.0	●	2	4NK(H)T 0603.....
216-W16-06	2	16	16	90	25	6.0	●	1	E218-E219
216-16-06-L100	2	16	16	100	25	6.0	●	2	
216-16-06-L150	2	16	16	150	25	6.0	●	2	
217-16-06	2	17	16	90	25	6.0	●	2	
217-16-06-L200	2	17	16	200	25	6.0	●	2	
218-W16-06	2	18	16	90	25	6.0	●	1	
218-16-06-L150	2	18	16	150	25	6.0	●	2	
220-19-06-L160	2	20	19	160	25	6.0	●	2	
220-W20-06	2	20	20	90	25	6.0	●	1	
220-20-06-L110	2	20	20	110	25	6.0	●	2	
220-20-06-L160	2	20	20	160	25	6.0	●	2	
320-W20-06	3	20	20	90	25	6.0	●	1	
320-20-06-L110	3	20	20	110	25	6.0	●	2	
221-20-06-L200	2	21	20	200	25	6.0	●	2	
325-W25-06	3	25	25	100	30	6.0	●	1	
325-25-06-L120	3	25	25	120	30	6.0	●	2	
325-25-06-L200	3	25	25	200	30	6.0	●	2	
326-25-06-L200	3	26	25	200	30	6.0	●	2	
425-W25-06	4	25	25	100	30	6.0	●	1	
425-25-06-L120	4	25	25	120	30	6.0	●	2	
432-W32-06	4	32	32	110	35	6.0	●	1	
432-32-06-L130	4	32	32	130	35	6.0	●	2	
432-32-06-L210	4	32	32	210	35	6.0	●	2	
433-32-06-L220	4	33	32	220	35	6.0	●	2	
532-W32-06	5	32	32	110	35	6.0	●	1	
532-32-06-L130	5	32	32	130	35	6.0	●	2	
540-W32-06	5	40	32	110	40	6.0	●	1	
540-32-06-L150	5	40	32	150	40	6.0	●	2	
540-32-06-L250	5	40	32	250	40	6.0	●	2	
640-W32-06	6	40	32	110	35	6.0	●	1	
640-32-06-L150	6	40	32	150	35	6.0	●	2	

Cutting Condition E271-E273
Ramping Data E293-E313

- Cutter body for '4NKT 060320R-HF' and '4NHT 060320R-F' inserts should be modified with body corner radius 2.0 mm

4N TE90-M-06

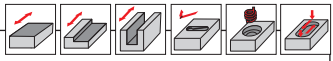
CHASE4MILL

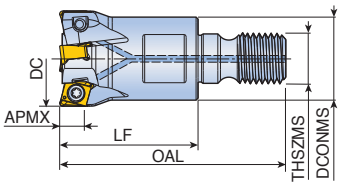
Modular heads



90°

90°	High feed	Side wall
		





Designation		Dimension (mm)						Coolant hole	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX		
4N TE90-216-M08-06	2	16	13	23	40.5	M08	6.0	●	4NK(H)T 0603...
217-M08-06	2	17	13	23	40.5	M08	6.0	●	E218-E219
220-M10-06	2	20	18	35	55	M10	6.0	●	
320-M10-06	3	20	18	35	55	M10	6.0	●	
321-M10-06	3	21	18	35	55	M10	6.0	●	
325-M12-06	3	25	21	35	57	M12	6.0	●	
425-M12-06	4	25	21	35	57	M12	6.0	●	
426-M12-06	4	26	21	35	57	M12	6.0	●	
432-M16-06	4	32	29	43	68	M16	6.0	●	
532-M16-06	5	32	29	43	68	M16	6.0	●	
533-M16-06	5	33	29	43	68	M16	6.0	●	
535-M16-06	5	35	29	43	68	M16	6.0	●	
540-M16-06	5	40	29	43	68	M16	6.0	●	
640-M16-06	6	40	29	43	68	M16	6.0	●	

- Cutter body for '4NKT 060320R-HF' and '4NHT 060320R-F' inserts should be modified with body corner radius 2.0 mm
- Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench			
					
4N TE90-06	TS 30B068I/HG	TD 8			

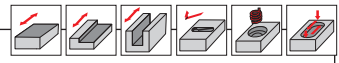
Cutting Condition E271-E273
Ramping Data E293-E313

4N TE90-09/11/14

End mills







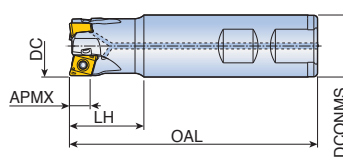


Fig.1



Fig.2



Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LH	APMX			
4N TE90-220-W20-09	2	20	20	100	30	8.0	●	1	4NK(H)T 0904.. E218-E219
220-20-09-L170	2	20	20	170	30	8.0	●	2	
225-W25-09	2	25	25	100	30	8.0	●	1	
225-25-09-L200	2	25	25	200	40	8.0	●	2	
325-W25-09	3	25	25	100	30	8.0	●	1	
325-25-09-L210	3	25	25	210	30	8.0	●	2	
332-W32-09	3	32	32	110	40	8.0	●	1	
332-32-09-L250	3	32	32	250	40	8.0	●	2	
432-W25-09	4	32	25	130	35	8.0	●	1	
432-25-09-L200	4	32	25	200	40	8.0	●	2	
432-W32-09	4	32	32	110	40	8.0	●	1	
440-W32-09	4	40	32	115	40	8.0	●	1	
440-32-09-L250	4	40	32	250	40	8.0	●	2	
540-W32-09	5	40	32	115	40	8.0	●	1	
4N TE90-225-W25-11	2	25	25	100	30	10.5	●	1	4NKT 1106... E218-E219
225-25-11-L200	2	25	25	200	40	10.5	●	2	
332-W32-11	3	32	32	110	40	10.5	●	1	
440-W32-11	4	40	32	115	40	10.5	●	1	
440-32-11-L200	4	40	32	200	40	10.5	●	2	
4N TE90-232-W32-14	2	32	32	110	40	13.8	●	1	4NKT 1407... E218-E219
232-32-14	2	32	32	150	45	13.8	●	2	
232-32-14-L250	2	32	32	250	40	13.8	●	2	
340-W32-14	3	40	32	115	40	13.8	●	1	
340-32-14	3	40	32	115	40	13.8	●	2	

Cutting Condition E271-E273
Ramping Data E293-E313

- Cutter body for '4NKT 090432R-HF' insert should be modified with body corner radius 3.2mm
- Cutter body for '4NKT 110640R-HF' insert should be modified with body corner radius 4.0 mm
- Cutter body for '4NKT 140750R-HF' insert should be modified with body corner radius 5.0 mm

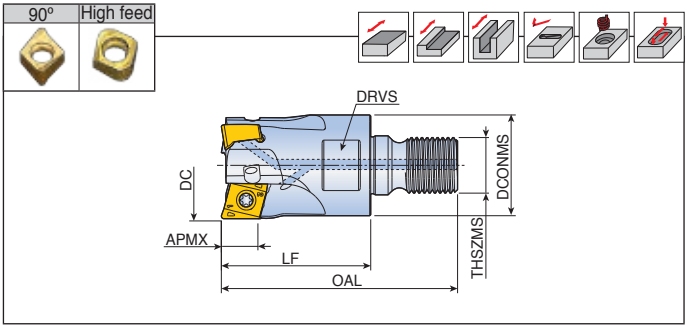
4N TE90-M-09/11/14

CHASE4MILL

Modular heads



90°



Designation		Dimension (mm)							Coolant hole	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX	DRVS		
4N TE90- 220-M10-09	2	20	18	30	50	M10	8.0	15	●	4NK(H)T 0904...
325-M12-09	3	25	21	35	57	M12	8.0	17	●	E218-E219
432-M16-09	4	32	29	43	68	M16	8.0	25	●	
540-M16-09	5	40	29	43	68	M16	8.0	25	●	
4N TE90- 225-M12-11	2	25	21	35	57	M12	10.5	17	●	4NKT 1106...
332-M16-11	3	32	29	43	68	M16	10.5	25	●	E218-E219
440-M16-11	4	40	29	43	68	M16	10.5	25	●	
4N TE90- 232-M16-14	2	32	29	43	68	M16	13.8	25	●	4NKT 1407...
340-M16-14	3	40	29	43	68	M16	13.8	25	●	E218-E219

- Cutter body for '4NKT 090432R-HF' insert should be modified with body corner radius 3.2 mm
- Cutter body for '4NKT 110640R-HF' insert should be modified with body corner radius 4.0 mm
- Cutter body for '4NKT 140750R-HF' insert should be modified with body corner radius 5.0 mm
- Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench	Wrench handle		
4N TE90-09	TS 35A088I/HG	TBLD T10P-W6	THND 6W		
4N TE90-11	TS 40093I/HG	TBLD T15-W6	THND 6W		
4N TE90-14	TS 50A121I/HG	TBLD T20-W6	THND 6W		

Cutting Condition E271-E273
Ramping Data E293-E313

End mills



90°

Fig.1

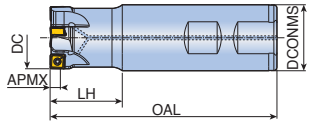
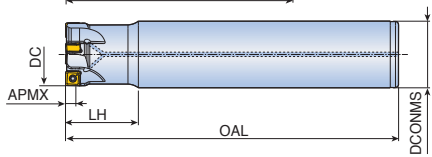


Fig.2



Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	LH	OAL	APMX			
8D-TE90- 216-W16-07	2	16	16	20	90	5.0	●	1	SQKU 0703...
216-16-07-L110	2	16	16	20	110	5.0	●	2	E257
217-16-07-L110	2	17	16	20	110	5.0	●	2	
220-W20-07	2	20	20	25	90	5.0	●	1	
220-20-07-L160	2	20	20	25	160	5.0	●	2	
320-W20-07	3	20	20	25	90	5.0	●	1	
221-20-07-L160	2	21	20	25	160	5.0	●	2	
325-W25-07	3	25	25	30	100	5.0	●	1	
325-25-07-L160	3	25	25	30	160	5.0	●	2	
425-W25-07	4	25	25	30	100	5.0	●	1	
326-25-07-L160	3	26	25	30	160	5.0	●	2	
432-W32-07	4	32	32	35	110	5.0	●	1	
432-32-07-L200	4	32	32	35	200	5.0	●	2	
632-W32-07	6	32	32	35	110	5.0	●	1	
433-32-07-L200	4	33	32	35	200	5.0	●	2	
540-W32-07	5	40	32	40	110	5.0	●	1	
840-W32-07	8	40	32	40	110	5.0	●	1	

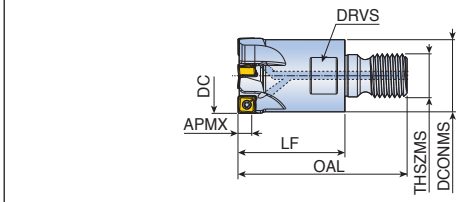
Cutting Condition
E271-E273

8D-TE90-M-07

CHASE8MILL

Modular heads





90°

Designation		Dimension (mm)							Coolant hole	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX	DRVS		
8D-TE90- 216-M08-07	2	16	14	23	40.5	M08	5.0	10	●	SQKU 0703...
320-M10-07	3	20	18	30	50	M10	5.0	15	●	E257
325-M12-07	3	25	22	35	57	M12	5.0	17	●	
432-M16-07	4	32	29	43	68	M16	5.0	25	●	
540-M16-07	5	40	29	43	68	M16	5.0	25	●	

• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench			
					
8D-TE90-07	TS 25D060/HG-P	TD 7P			

Cutting Condition
E271-E273

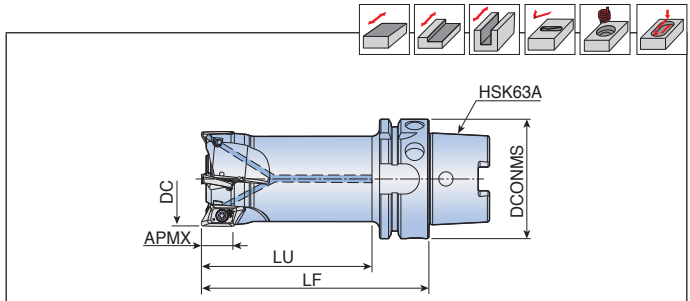
TaeguTec

TE90XEV-HSK63A-16

CHASEALU

End mills for HSK toolholder





90°

Designation		Dimension (mm)					Coolant hole	Max RPM	Insert
		DC	DCONMS	LF	LU	APMX			
TE90XEV	**225-100-HSK63A-16**	2	25	63	100	70	16	●	52,000	XEVT 1605...
	232-125-HSK63A-16	2	32	63	125	95	16	●	46,000	E264
	332-90-HSK63A-16	3	32	63	90	60	16	●	46,000	
	340-105-HSK63A-16	3	40	63	105	75	16	●	41,200	
	450-105-HSK63A-16	4	50	63	105	75	16	●	36,800	
	450-120-HSK63A-16	4	50	63	120	90	16	●	36,800	

- Cutter body for inserts with corner radii more than 3.2mm (XEVT 16) should be modified as follows: body "RE"=insert "RE"-0.3mm

Spare parts

Designation	Screw	Wrench			
TE90XEV-16 (-Ø25)	TS 40085I/HG	T-T15			
TE90XEV-16 (Ø32-)	TS 40093I/HG	T-T15			

Cutting Condition E271-E273
Ramping Data E322-E323

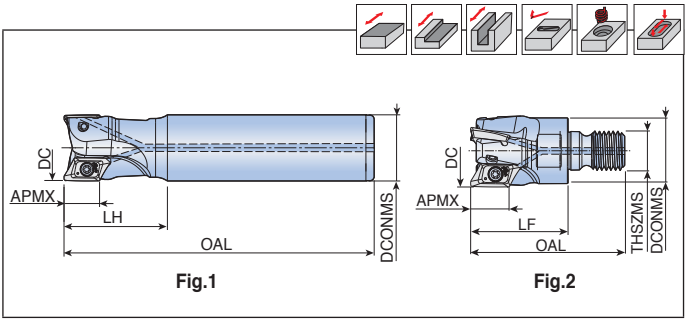
TE90XEV-16/22

CHASEALU

End mills & Modular heads



90°



Designation			Dimension (mm)							Coolant hole	Fig.	Max RPM	Insert
			DC	DCONMS	OAL	THSZMS	LF	LH	APMX				
TE90XEV	**225-25-16**	2	25	25	125	-	-	55	16	●	1	52,000	XEVT 1605...
	225-25-16-L170	2	25	25	170	-	-	70	16	●	1	52,000	E264
	232-32-16	2	32	32	150	-	-	50	16	●	1	46,000	
	232-32-16-L200	2	32	32	200	-	-	80	16	●	1	46,000	
	332-32-16	3	32	32	150	-	-	50	16	●	1	46,000	
	332-32-16-L200	3	32	32	200	-	-	80	16	●	1	46,000	
	340-32-16	3	40	32	170	-	-	55	16	●	1	41,200	
	340-32-16-L250	3	40	32	250	-	-	55	16	●	1	41,200	
TE90XEV	**225-M12-16**	2	25	21	65	M12	43	-	16	●	2	52,000	
	232-M16-16	2	32	29	68	M16	43	-	16	●	2	46,000	
	332-M16-16	3	32	29	68	M16	43	-	16	●	2	46,000	
	340-M16-16	3	40	29	68	M16	43	-	16	●	2	41,200	
TE90XEV	**232-32-22**	2	32	32	160	-	-	100	21	●	1	37,500	XEVT 2206...
	340-40-22	3	40	40	160	-	-	80	21	●	1	35,100	E264

- Matched with T-FLEXTEC holder
- Cutter body for inserts with corner radii more than 3.2mm (XEVT 16) and 3.0mm (XEVT 22) should be modified as follows: body "RE"=insert "RE"-0.3mm

Spare parts

Designation	Screw	Wrench			
					
TE90XEV-16 (-Ø25)	TS 40085I/HG	T-T 15			
TE90XEV-16 (Ø32-)	TS 40093I/HG	T-T 15			
TE90XEV-22 (-Ø32)	TS 50105I	T-T 20			
TE90XEV-22 (Ø40-)	TS 50115I	T-T 20			

Cutting Condition E271-E273

Ramping Data E322-E326

3P-TCF-06/10

End mills for chamfering



30°-60°

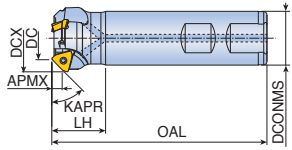


Fig.1

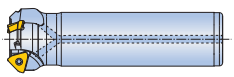


Fig.2

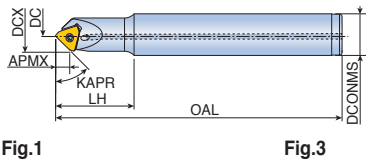


Fig.3

Designation			Dimension (mm)							Fig.	Application range	Insert
			KAPR	DC	DCX	DCONMS	OAL	LH	APMX			
3P-TCF	**45-309-12-06**	3	45°	9	16.7	12	100	17	3.0	2	Ø10.3-Ø14.4	3PK(H)T 0603...
	60-320-W25-10	3	60°	20	27.3	25	100	25	5.9	1	Ø21.3-Ø26.2	3PK(H)T 1004...
	45-320-W25-10	3	45°	20	31.2	25	100	25	4.8	1	Ø21.3-Ø28.9	E216
	30-320-W25-10	3	30°	20	34.5	25	100	25	3.3	1	Ø21.3-Ø31.0	
3P-TCF	**45-D2-16-10-L110**	1	45°	2	13.3	16	110	30	4.7	3	Ø3.3-Ø10.6	3PK(H)T 1004... E216

• Coolant though type

Spare parts

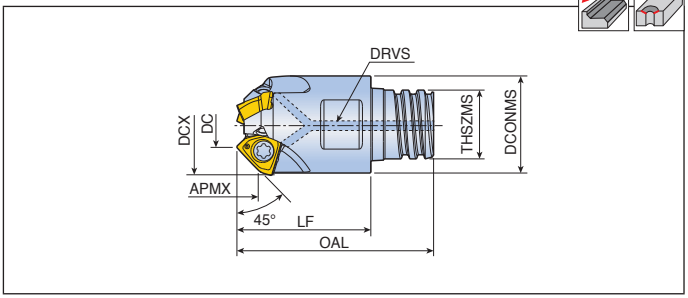
Designation	Screw	Wrench			
					
3P-TCF-06	TS 20043I/HG-P	TD 6P			
3P-TCF-10	TS 25C065I/HG	TD 8			

Cutting Condition
E271-E273

3P-TCF-S-04

Modular heads for chamfering





45°

Designation		Dimension (mm)								Application range	Insert
		DC	DCX	DCONMS	LF	OAL	THSZMS	APMX	DRVS		
3P-TCF45-306-S08-04	3	6	12.3	11.6	16	23.5	S08	2.5	10	Ø7.3-Ø10.5	3PKT 0402... E216

• Matched with MAXI-RUSH holder • Coolant though type

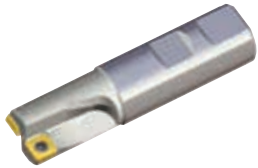
Spare parts

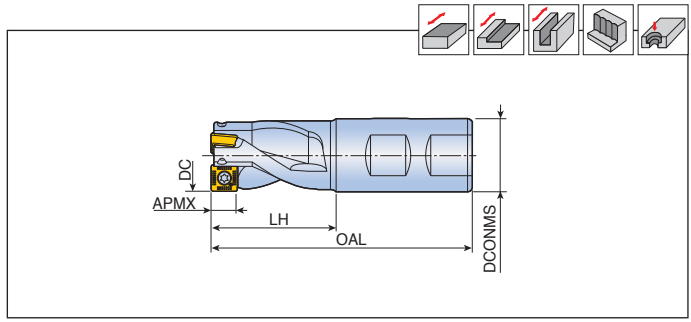
Designation	Screw	Wrench			
					
3P-TCF-S-04	TS 18033/HG-P	TD 6P			

Cutting Condition E271-E273

CHASEQUAD

End mills





90°

Designation		Dimension (mm)					Insert
		DC	DCONMS	OAL	LH	APMX	
TSF 112-W16-06	1	12	16	80	27	5.6	XOMT 0602... E255
216-W20-06	2	16	20	90	27	5.6	
320-W20-06	3	20	20	100	25	5.6	
TSF 222-W25-09	2	22	25	100	40	9.0	SPMG(T) 0904... E255
225-W25-09	2	25	25	100	40	9.0	
TSF 332-W32-11	3	32	32	115	55	10.7	SPMG(T) 1104... E255
440-W32-11	4	40	32	125	55	10.7	
TSF 445-W32-14	4	45	32	130	70	13.4	SPMG(T) 1405... E255
450-W32-14	4	50	32	140	80	13.4	

Spare parts

Designation	Screw	Wrench			
TSF (Ø12)	TS 22046I	TD 7			
TSF (Ø16-Ø20)	TS 22052I/HG	TD 7			
TSF (Ø22-Ø25)	TS 35088I	TD 10			
TSF (Ø32-Ø40)	TS 40093I	TD 15			
TSF (Ø45-Ø50)	TS 50A121I/HG	TD 20			

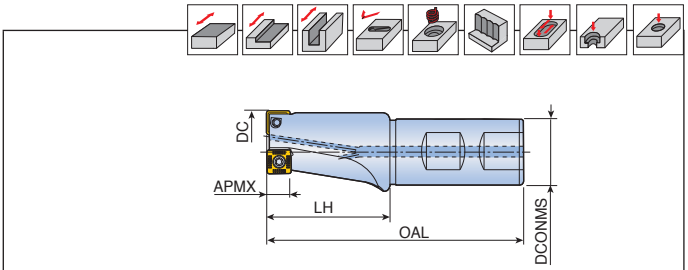
Cutting Condition E271-E273

TDM-06/09/11/14

CHASEQUAD

End mills





90°

Designation		Dimension (mm)					Coolant hole	Max. drilling depth (mm)	Insert
		DC	DCONMS	OAL	LH	APMX			
TDM 112 W16-06	1	12	16	80	20	5.6	●	12	XOMT 0602... E255
216 W20-06	2	16	20	90	25	5.6	●	16	
218 W20-06	2	18	20	90	25	5.6	●	16	
220 W25-06	2	20	25	100	40	5.6	●	20	
222 W25-06	2	22	25	110	47	5.6	●	25	
TDM 225 W25-09	2	25	25	110	50	9.0	●	30	SPMG(T) 0904...-EM E255
228 W32-09	2	28	32	125	60	9.0	●	38	
TDM 232 W32-11	2	32	32	125	60	10.7	●	38	SPMG(T) 1104...-EM E255
240 W32-11	2	40	32	125	60	10.7	●	38	
TDM 245 W32-14	2	45	32	130	66	13.4	●	40	SPMG(T) 1405...-EM E255
250 W32-14	2	50	32	150	66	13.4	●	40	

Spare parts

Designation	Screw	Wrench			
TDM (Ø12)	TS 22046I	TD 7			
TDM (Ø16-Ø22)	TS 22052I/HG	TD 7			
TDM (Ø25-Ø28)	TS 35088I	TD 10			
TDM (Ø32-Ø40)	TS 40093I	TD 15			
TDM (Ø45-Ø50)	TS 50A121I/HG	TD 20			

Cutting Condition E271-E273

End mills



45°

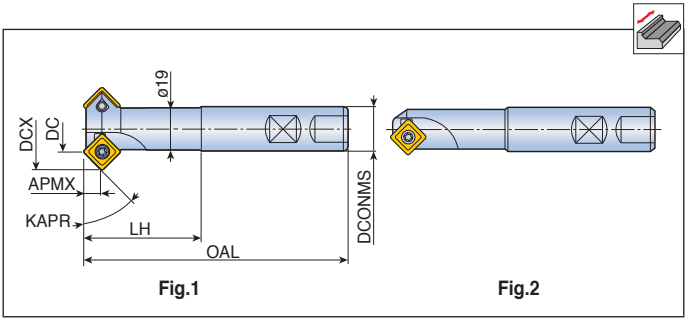


Fig.1 Fig.2

Designation		Dimension (mm)							Fig.	Application range(mm)	Insert
		KAPR	DCX	DC	DCONMS	OAL	LH	APMX			
TCF 15 D25-11	2	75°	30.5	25	20	120	40	10.1	1	Ø26.3-Ø30.0	SPMT(G) 1104...EM
30 D25-11	2	60°	35.5	25	20	120	40	8.9	1	Ø26.3-Ø34.0	E255
45 D07-11	1	45°	21.5	7	20	120	40	7.2	2	Ø8.3-Ø20.9	
45 D19-11	2	45°	33.4	19	20	120	40	7.2	1	Ø20.3-Ø32.9	
45 D25-11	3	45°	39.4	25	20	120	40	7.2	1	Ø26.3-Ø38.9	

Spare parts

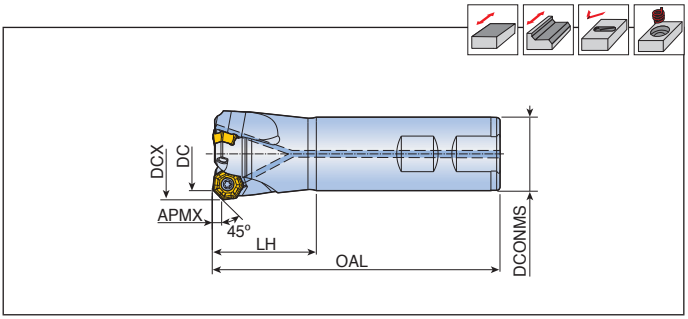
Designation	Screw	Wrench			
TCF-11	TS 40093I	TD 15			

Cutting Condition
E271-E273

7S-E45-06

End mills





45°

Designation		Dimension (mm)						Coolant hole	Insert
		DCX	DC	DCONMS	OAL	LH	APMX		
7S-E45 232P-W32-06	2	32	23.7	32	125	45	3.2	●	7EMT 0604 ...
340P-W32-06	3	40	31.6	32	125	45	3.2	●	E223
450P-W32-06	4	50	41.5	32	125	45	3.2	●	

Spare parts

Designation	Screw	Wrench			
7S-E45-06 (-Ø40)	TS 40085I/HG	TD 15			
7S-E45-06 (Ø50-)	TS 40093I/HG	TD 15			

Cutting Condition E271-E273
Ramping Data E327

End mills



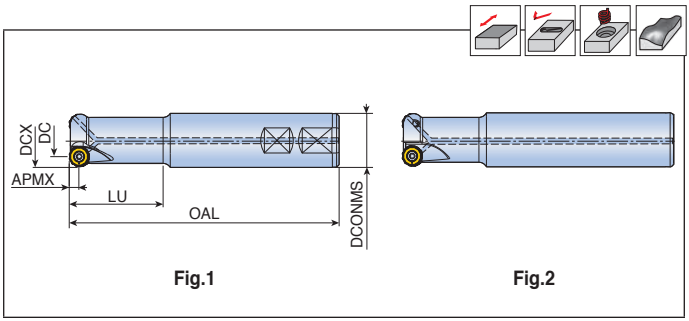


Fig.1 Fig.2

Designation			Dimension (mm)						Coolant hole	Fig.	Insert
			DCX	DC	DCONMS	OAL	LU	APMX			
TERNS	225-25-10-L160	2	25	15	25	160	60	5.0	●	2	RNMU 1004...
	225-32-10-L250	2	25	15	32	250	40	5.0	●	2	E244
	325-25-10-L160	3	25	15	25	160	60	5.0	●	2	
	226-25-10-L200	2	26	16	25	200	80	5.0	●	2	
	332-32-10-L180	3	32	22	32	180	70	5.0	●	2	
	332-32-10-L250	3	32	22	32	250	100	5.0	●	2	
	432-32-10-L180	4	32	22	32	180	70	5.0	●	2	
	432-32-10-L250	4	32	22	32	250	100	5.0	●	2	
	433-32-10-L200	4	33	23	32	200	80	5.0	●	2	
	433-32-10-L250	4	33	23	32	250	100	5.0	●	2	
TERNS	232-32-12-L150	2	32	20	32	150	50	6.0	●	2	RNMU 1205...
	232-32-12-L200	2	32	20	32	200	60	6.0	●	2	E244
	232-32-12-L	2	32	20	32	250	50	6.0	●	2	
	332-W32-12	3	32	20	32	160	60	6.0	●	1	
	332-32-12-L200	3	32	20	32	200	70	6.0	●	2	
	332-32-12-L250	3	32	20	32	250	60	6.0	●	2	
	233-32-12-L200	2	33	21	32	200	50	6.0	●	2	
	233-32-12-L250	2	33	21	32	250	50	6.0	●	2	
	333-32-12-L200	3	33	21	32	200	70	6.0	●	2	
	333-32-12-L250	3	33	21	32	250	60	6.0	●	2	
	340-W32-12	3	40	28	32	160	50	6.0	●	1	
	340-32-12-L250	3	40	28	32	250	50	6.0	●	2	
	440-W32-12	4	40	28	32	160	50	6.0	●	1	
	440-32-12-L250	4	40	28	32	250	60	6.0	●	2	
	450-32-12-L200	4	50	38	32	200	70	6.0	●	2	
	550-32-12-L250	5	50	38	32	250	60	6.0	●	2	
TERNS	240-W32-16-L160	2	40	24	32	160	50	6.0	●	1	RNMU 1606...
	240-32-16-L180	2	40	24	32	180	70	8.0	●	2	E244
	240-32-16-L250	2	40	24	32	250	100	8.0	●	2	
	340-32-16-L180	3	40	24	32	180	70	8.0	●	2	
	340-32-16-L250	3	40	24	32	250	100	8.0	●	2	

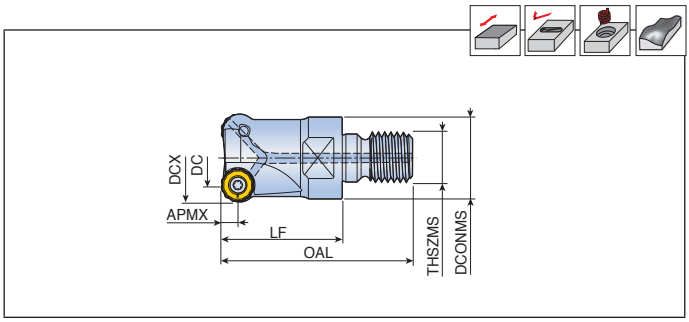
Cutting Condition E271-E273

Ramping Data E339-E340

TERNS-M

Modular heads





Designation		Dimension (mm)							Coolant hole	Insert
		DCX	DC	DCONMS	LF	OAL	THSZMS	APMX		
TERNS 225-M12-10	2	25	15	21	35	57	M12	5.0	•	RNMU 1004... E244
325-M12-10	3	25	15	21	35	57	M12	5.0	•	
432-M16-10	4	32	22	29	43	68	M16	5.0	•	
542-M16-10	5	42	32	29	43	68	M16	5.0	•	
TERNS 232-M16-12	2	32	20	29	43	68	M16	6.0	•	RNMU 1205... E244
332-M16-12	3	32	20	29	43	68	M16	6.0	•	
233-M16-12	2	33	21	29	43	68	M16	6.0	•	
333-M16-12	3	33	21	29	43	68	M16	6.0	•	
340-M16-12	3	40	28	29	43	68	M16	6.0	•	
440-M16-12	4	40	28	29	43	68	M16	6.0	•	
TERNS 240-M16-16	2	40	24	29	43	68	M16	8.0	•	RNMU 1606... E244
340-M16-16	3	40	24	29	43	68	M16	8.0	•	

• Matched with T-FLEXTEC holder

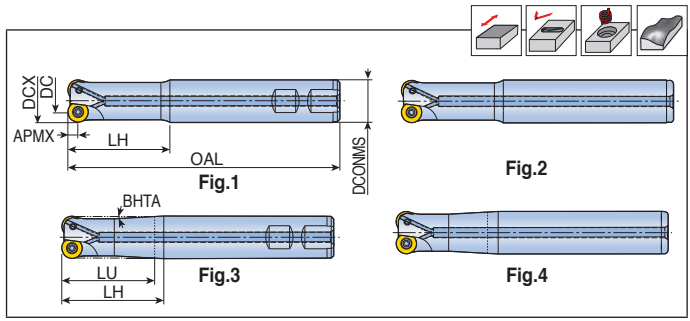
Spare parts

Designation	Screw	Wrench			
TERNS-10	TS 35085I/HG	TD 15	-		
TERNS-12	TS 40G110I	-	T-T15		
TERNS-16	TS 50A121I/HG	TD 20	-		

Cutting Condition E271-E273
Ramping Data E339-E340

End mills





Designation			Dimension (mm)								Coolant hole	Fig.	Insert
			DCX	DC	DCONMS	OAL	LU	LH	BHTA	APMX			
TERY	**216-W20-08-L**	2	16	8	20	110	45	55	4.1	4.0	●	3	RYM(H)X 0803... E245-E246
	217-16-08-L130	2	17	9	16	130	-	30	-	4.0	●	2	
	218-16-08-L150	2	18	10	16	150	-	30	-	4.0	●	2	
	320-W20-08	3	20	12	20	150	-	43	-	4.0	●	1	
	320-20-08-L110	3	20	12	20	110	-	60	-	4.0	●	2	
	321-20-08-L150	3	21	13	20	150	-	40	-	4.0	●	2	
	425-W25-08	4	25	17	25	150	-	43	-	4.0	●	1	
	426-25-08-L150	4	26	18	25	150	-	40	-	4.0	●	2	
	532-W32-08	5	32	24	32	160	-	60	-	4.0	●	1	
TERY	**220-W20-10**	2	20	10	20	160	-	60	-	5.0	●	1	RYM(H)X 1004... E245-E246
	220-25-10-L	2	20	10	25	250	60	80	3.5	5.0	●	4	
	221-20-10-L200	2	21	11	20	200	-	30	-	5.0	●	2	
	225-32-10-L	2	25	15	32	250	53	80	5.0	5.0	●	4	
	225-W25-10	2	25	15	25	160	-	60	-	5.0	●	1	
	325-W25-10	3	25	15	25	160	-	60	-	5.0	●	1	
	226-25-10-L200	2	26	16	25	200	-	30	-	5.0	●	2	
	326-25-10-L200	3	26	16	25	200	-	60	-	5.0	●	2	
	432-W32-10	4	32	22	32	160	-	60	-	5.0	●	1	
TERY	**225-W25-12**	2	25	13	25	160	-	60	-	6.0	●	1	RYM(H)X 1205... E245-E246
	226-25-12-L200	2	26	14	25	200	-	60	-	6.0	●	2	
	232-32-12-L	2	32	20	32	250	-	50	-	6.0	●	2	
	332-W32-12	3	32	20	32	160	-	64	-	6.0	●	1	
	332-W32-12-S	3	32	20	32	105	-	35	-	6.0	●	1	
	233-32-12-L250	2	33	21	32	250	-	40	-	6.0	●	2	
	333-32-12-L200	3	33	21	32	200	-	60	-	6.0	●	2	
	340-W32-12	3	40	28	32	160	-	50	-	6.0	●	1	
	340-W32-12-S	3	40	28	32	105	-	35	-	6.0	●	1	
	340-32-12-L250	3	40	28	32	250	-	50	-	6.0	●	2	
	440-W32-12	4	40	28	32	150	-	35	-	6.0	●	1	
	440-W32-12-S	4	40	28	32	105	-	35	-	6.0	●	1	
TERY	**240-W32-16**	2	40	24	32	160	-	50	-	8.0	●	1	RYM(H)X 1606... E245-E246
	340-32-16-L250	3	40	24	32	250	-	50	-	8.0	●	2	
TERY	**350-32-20**	3	50	30	32	160	-	50	-	10.0	●	2	RYM(H)X 2007... E245-E246
	350-40-20	3	50	30	40	200	-	60	-	10.0	●	2	

Cutting Condition E271-E273

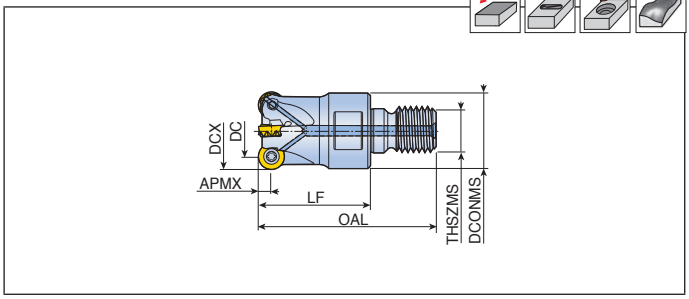
Ramping Data E341-E343

TERY-M-08/10

CHASEMOLD

Modular heads





Designation		Dimension (mm)							Coolant hole	Insert
		DCX	DC	DCONMS	LF	OAL	THSZMS	APMX		
TERY 216-M08-08	2	16	8	13	23	40.5	M08	4.0	●	RYM(H)X 0803... E245-E246
218-M08-08	2	18	10	13	23	40.5	M08	4.0	●	
220-M10-08	2	20	12	18	30	50	M10	4.0	●	
320-M10-08	3	20	12	18	30	50	M10	4.0	●	
425-M12-08	4	25	17	21	35	57	M12	4.0	●	
530-M16-08	5	30	22	29	43	68	M16	4.0	●	
532-M16-08	5	32	24	29	43	68	M16	4.0	●	
540-M16-08	5	40	32	29	43	68	M16	4.0	●	
640-M16-08	6	40	32	29	43	68	M16	4.0	●	
TERY 220-M10-10	2	20	10	18	30	50	M10	5.0	●	RYM(H)X 1004... E245-E246
225-M12-10	2	25	15	21	35	57	M12	5.0	●	
325-M12-10	3	25	15	21	35	57	M12	5.0	●	
430-M16-10	4	30	20	29	43	68	M16	5.0	●	
432-M16-10	4	32	22	29	43	68	M16	5.0	●	
435-M16-10	4	35	25	29	43	68	M16	5.0	●	
542-M16-10	5	42	32	29	43	68	M16	5.0	●	
642-M16-10	6	42	32	29	43	68	M16	5.0	●	

Cutting Condition E271-E273

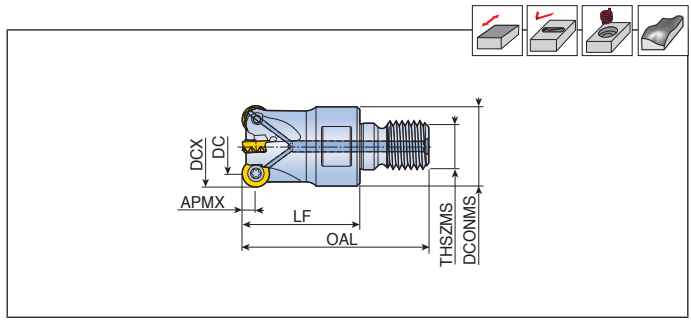
Ramping Data E341

• Matched with T-FLEXTEC holder

TERY-M-12/16

Modular heads





Designation		Dimension (mm)							Coolant hole	Insert
		DCX	DC	DCONMS	LF	OAL	THSZMS	APMX		
TERY 225-M12-12	2	25	13	21	35	57	M12	6.0	•	RYM(H)X 1205...
232-M16-12	2	32	20	29	43	68	M16	6.0	•	E245-E246
332-M16-12	3	32	20	29	43	68	M16	6.0	•	
335-M16-12	3	35	23	29	43	68	M16	6.0	•	
340-M16-12	3	40	28	29	43	68	M16	6.0	•	
440-M16-12	4	40	28	29	43	68	M16	6.0	•	
442-M16-12	4	42	30	29	43	68	M16	6.0	•	
TERY 232-M16-16	2	32	16	29	43	68	M16	8.0	•	RYM(H)X 1606...
240-M16-16	2	40	24	29	43	68	M16	8.0	•	E245-E246
342-M16-16	3	42	26	29	43	68	M16	8.0	•	

• Matched with T-FLEXTEC holder

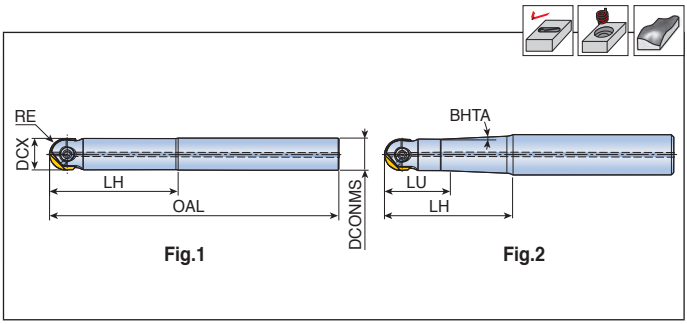
Spare parts

Designation	Screw	Wrench		Wrench handle	
TERY-08	TS 30A060I/HG	TD 9	-		
TERY-10	TS 35070I/HG(UnderD21), TS 35085I/HG	TD 15	-		
TERY-12	TS 40093I	TD 15	-		
TERY-16	TS 50115I	TD 20	-		
TERY-20	TS 60A130I	-	BLD T25/M7	SW6-T	

Cutting Condition E271-E273
Ramping Data E342-E343

End mills





Designation	Dimension (mm)							Coolant hole	Fig.	Insert
	DCX	RE	DCONMS	OAL	LH	LU	BHTA			
TNF 060-10M	6	3	10	80	30	15	7.5°	●	2	NFB 060...
060-30-L80	6	3	10	80	30	-	-	●	1	NFR 060A...
080-08S	8	4	8	90	20	-	-	●	1	NFB 080...
080-12S	8	4	12	100	20	10	9.5°	●	2	NFR 080A...
080-12M	8	4	12	130	50	10	3°	●	2	
100-10S	10	5	10	90	30	-	-	●	1	NFB 100...
100-12S	10	5	12	110	25	15	5°	●	2	NFR 100A...
100-16M	10	5	16	130	60	15	3.5°	●	2	NFR 110A...
120-12S	12	6	12	110	30	-	-	●	1	NFB 120...
120-12M	12	6	12	180	60	-	-	●	1	NFR 120A...
120-16M	12	6	16	140	60	25	2.4°	●	2	NFR 130A...
120-20L	12	6	20	180	80	40	5°	●	2	
160-16M	16	8	16	130	40	-	-	●	1	NFB 160...
160-16L	16	8	16	200	100	-	-	●	1	NFR 160A...
160-20M	16	8	20	160	60	25	2.5°	●	2	NFR 170A...
160-25L	16	8	25	220	100	55	5°	●	2	
200-20S	20	10	20	110	40	-	-	●	1	NFB 200...
200-20M	20	10	20	150	50	-	-	●	1	NFR 200A...
200-20L	20	10	20	220	70	-	-	●	1	NFR 210A...
200-25M	20	10	25	180	80	40	2.5°	●	2	
200-25L	20	10	25	220	110	45	1.5°	●	2	
250-25S	25	12.5	25	125	40	-	-	●	1	NFB 250...
250-25M	25	12.5	25	170	70	-	-	●	1	NFR 250A...
250-32M	25	12.5	32	200	90	32	3°	●	2	NFR 260A...
250-32L	25	12.5	32	250	130	40	1.5°	●	2	
300-32S	30	15	32	140	55	-	-	●	1	NFB 300...
300-32M	30	15	32	190	75	-	-	●	1	NFB 320...
300-32L	30	15	32	250	100	65	1°	●	2	NFR 300A...
300-32XL	30	15	32	300	150	-	-	●	1	NFR 320A...
300-32-L220	30	15	32	220	100	55	1°	●	2	
320-32L	32	16	32	250	60	-	-	●	1	NFB 320...
										NFR 320A...
										E239-E241

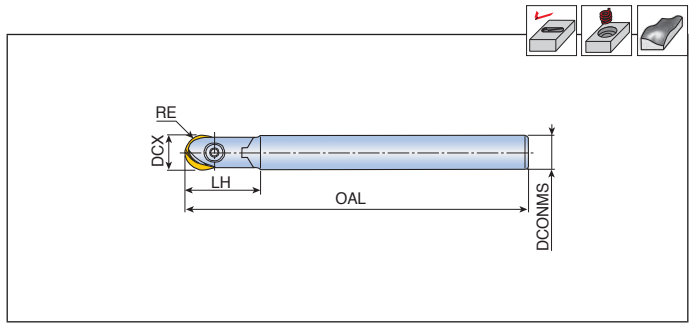
Cutting Condition
E271-E273

TNF-CT-L

FINEBALL

End mills-carbide shank





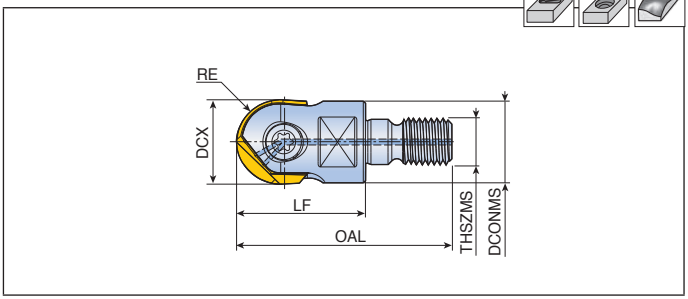
Designation		Dimension (mm)					Insert
		DCX	RE	DCONMS	OAL	LH	
TNF	060-06-CT-L60	6	3	6	60	15	NFB 060... NFR 060A...
	060-06-CT-L80	6	3	6	80	20	
	060-06-CT-L92	6	3	6	92	35	
	060-06-CT-L120	6	3	6	120	65	
	060-06-CT-L140	6	3	6	140	25	
	080-08-CT-L100	8	4	8	100	30	NFB 080... NFR 080A...
	080-10-CT-L140	8	4	10	140	75	
	080-08-CT-L160	8	4	8	160	80	
	100-10-CT-L100	10	5	10	100	35	NFB 100... NFR 100A... NFR 110A...
	100-10-CT-L140	10	5	10	140	75	
	100-10-CT-L200	10	5	10	200	70	
	100-10-CT-L220	10	5	10	220	140	
	120-12-CT-L120	12	6	12	120	50	NFB 120... NFR 120A... NFR 130A...
	120-12-CT-L160-S	12	6	12	160	30	
	120-12-CT-L160	12	6	12	160	90	
	120-12-CT-L200	12	6	12	200	70	
	120-12-CT-L220	12	6	12	220	150	
	160-16-CT-L120	16	8	16	120	60	NFB 160... NFR 160A... NFR 170A...
	160-16-CT-L160-S	16	8	16	160	70	
	160-16-CT-L160	16	8	16	160	80	
	160-16-CT-L200	16	8	16	200	70	
	160-16-CT-L220	16	8	16	220	150	
	200-20-CT-L200	20	10	20	200	70	NFB 200... NFR 200A... NFR 210A...
	200-20-CT-L110	20	10	20	110	40	
	200-20-CT-L220	20	10	20	220	120	
	200-20-CT-L300	20	10	20	300	220	
	250-25-CT-L200	25	12.5	25	200	70	NFB 250... NFR 250A... NFR 260A...
	250-25-CT-L220-S	25	12.5	25	220	80	
	250-25-CT-L220	25	12.5	25	220	120	
	250-25-CT-L300	25	12.5	25	300	220	
	300-32-CT-L200	30	15	32	200	70	NFB 300... NFB 320... NFR 300A... NFR 320A... E239-E241
	300-32-CT-L250-S	30	15	32	250	80	
	300-32-CT-L250	30	15	32	250	150	
	300-32-CT-L350-S	30	15	32	350	80	
	300-32-CT-L350	30	15	32	350	230	
	320-32-CT-L300	32	16	32	300	220	NFB 320... NFR 320A...

TNF-M

FINEBALL

Modular heads





Designation	Dimension (mm)						Coolant hole	Insert
	DCX	RE	DCONMS	OAL	LF	THSZMS		
TNF **100-M06**	10	5	9.7	34.5	20	M06	•	NFB 100...
								NFR 100A...
								NFR 110A...
120-M06	12	6	11.5	37.5	23	M06	•	NFB 120...
120-M08	12	6	13	40.5	23	M08	•	NFR 120A...
								NFR 130A...
160-M08	16	8	13	47.5	30	M08	•	NFB 160...
								NFR 160A...
								NFR 170A...
200-M10	20	10	19	50	30	M10	•	NFB 200...
								NFR 200A...
								NFR 210A...
250-M12	25	12.5	24	57	35	M12	•	NFB 250...
250-M16	25	12.5	29	68	43	M16	•	NFR 250A...
								NFR 260A...
300-M16	30	15	29	68	43	M16	•	NFB 300...
								NFB 320...
								NFR 300A...
								NFR 320A...
320-M16	32	16	29.5	68	43	M16	•	NFB 320...
								NFR 320A...
								E239-E241

• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench			Wrench handle	
						
TNF 060	TS 20F060A	TD 6	-	-	-	
TNF 080	TS 25F080A	TD 8	-	-	-	
TNF 100	TS 30F100A	TD 10	-	-	-	
TNF 120	TS 40F120A	TD 15	-	-	-	
TNF 160	TS 50F160A	-	T-T20	-	-	
TNF 200	TS 60F200A	-	-	BLD T25/M7	SW6-T	
TNF 250	TS 70F250A	-	-	BLD T25/M7	SW6-T	
TNF 300, TNF 320	TS 80F300A	-	T-T30	-	-	

Cutting Condition
E271-E273

End mills



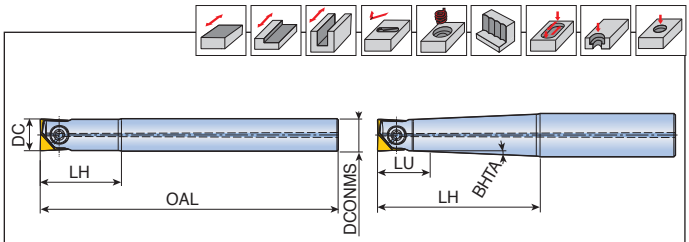


Fig.1 Fig.2

Designation	Dimension (mm)						Coolant hole	Fig.	Insert
	DC	DCONMS	OAL	LH	LU	BHTA			
TNFR 060-10M	6	10	80	30	15	9°	●	2	NFR 060A...
080-12S	8	12	100	22	10	9°	●	2	NFR 080A...
080-12M	8	12	130	50	10	2.8°	●	2	
100-12S	10	12	110	25	15	5°	●	2	NFR 100A...
100-16M	10	16	150	50	15	3.5°	●	2	NFR 110A...
120-12S	12	12	110	30	-	-	●	1	NFR 120A...
120-16M	12	16	160	60	18	2.5°	●	2	NFR 130A...
160-16S	16	16	130	50	-	-	●	1	NFR 160A...
160-16M	16	16	170	70	-	-	●	1	NFR 170A...
160-16L	16	16	200	100	-	-	●	1	
200-20S	20	20	140	60	-	-	●	1	NFR 200A...
200-20M	20	20	180	80	-	-	●	1	NFR 210A...
200-20L	20	20	250	120	-	-	●	1	
250-25S	25	25	150	70	-	-	●	1	NFR 250A...
250-25M	25	25	200	100	-	-	●	1	NFR 260A...
250-25L	25	25	250	120	-	-	●	1	
300-32S	30	32	140	55	-	-	●	1	NFR 300A
300-32M	30	32	190	75	-	-	●	1	NFR 320A
300-32L	30	32	250	100	65	1°	●	2	
320-32L	32	32	250	60	-	-	●	1	NFR 320A

E240-E241

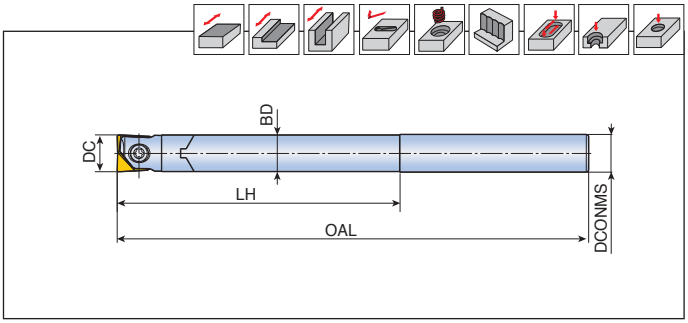
Cutting Condition
E271-E273

TNFR-CT-L

FINEBALL

End mills-carbide shank





Designation	Dimension (mm)					Insert
	DC	DCONMS	BD	OAL	LH	
TNFR 060-06-CT-L60	6	6	5.8	60	15	NFR 060A...
060-06-CT-L80	6	6	5.8	80	20	
080-08-CT-L140	8	8	7.8	140	75	NFR 080A...
100-10-CT-L140	10	10	9.7	140	75	NFR 100A... NFR 110A...
120-12-CT-L160	12	12	11.7	160	95	NFR 120A... NFR 130A...
160-16-CT-L200	16	16	15.5	200	120	NFR 160A... NFR 170A...
200-20-CT-L250	20	20	19.5	250	160	NFR 200A... NFR 210A...
250-25-CT-L300	25	25	24.5	300	200	NFR 250A... NFR 260A...
300-32-CT-L350	30	32	29.5	350	230	NFR 300A... NFR 320A...
320-32-CT-L350	32	32	31.5	350	230	NFR 320A...

E240-E241

Cutting Condition

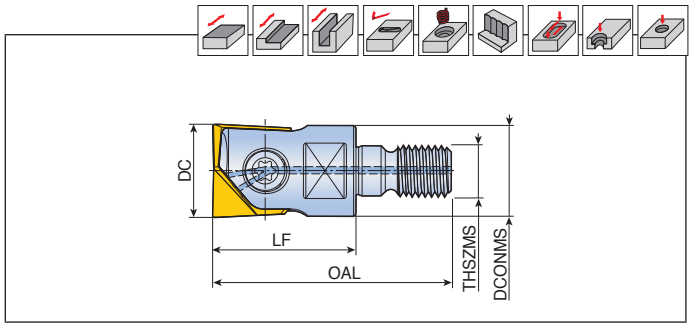
E271-E273

TNFR-M

FINEBALL

Modular heads





Designation	Dimension (mm)					Coolant hole	Insert
	DC	DCONMS	LF	OAL	THSZMS		
TNFR 100-M06	10	9.7	20	34.5	M06	•	NFR 100A... NFR 110A...
120-M06	12	11.5	23	37.5	M06	•	NFR 120A...
120-M08	12	13	23	40.5	M08	•	NFR 130A...
160-M08	16	13	30	47.5	M08	•	NFR 160A... NFR 170A...
200-M10	20	19	30	50	M10	•	NFR 200A... NFR 210A...
250-M12	25	24	35	57	M12	•	NFR 250A... NFR 260A...
300-M16	30	29	43	68	M16	•	NFR 300A NFR 320A
320-M16	32	29.5	43	68	M16	•	NFR 320A E240-E241

• Matched with T-FLEXTEC holder

Spare parts

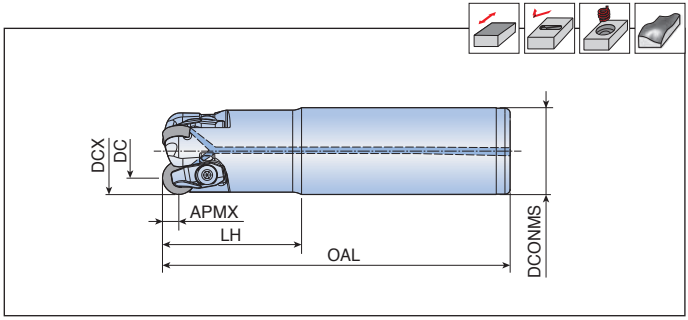
Designation	Screw	Wrench			Wrench handle	
						
TNFR 060	TS 20F060A	TD 6	-	-	-	
TNFR 080	TS 25F080A	TD 8	-	-	-	
TNFR 100	TS 30F100A	TD 10	-	-	-	
TNFR 120	TS 40F120A	TD 15	-	-	-	
TNFR 160	TS 50F160A	-	T-T20	-	-	
TNFR 200	TS 60F200A	-	-	BLD T25/M7	SW6-T	
TNFR 250	TS 70F250A	-	-	BLD T25/M7	SW6-T	
TNFR 300, TNFR 320	TS 80F300A	-	T-T30	-	-	

Cutting Condition
E271-E273

TERP-09

End mills





Designation			Dimension (mm)						Air hole(1)	Insert
			DCX	DC	DCONMS	OAL	LH	APMX		
TERP	220-20-09FL-L80	2	20	10.6	20	80	30	4.7	●	RPGN 0903 FL...
	325-25-09FL-L100	3	25	15.6	25	100	40	4.7	●	E243
	432-32-09FL-L120	4	32	22.5	32	120	40	4.7	●	

• (1) Use only air (Coolant is prohibited)

Spare parts

Designation	Clamp	Screw	Snap ring	Wrench	
					
TERP-09	CCL-3S-F	CLS-35A120	CSR 1.25	L-W 2	

Cutting Condition
E271-E273

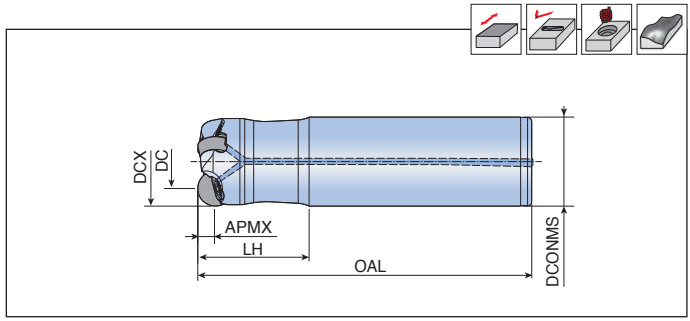
TaeguTec
Member IMC Group

TERP-12

CHASESPEED

End mills





Designation		Dimension (mm)						Air hole(1)	Insert
		DCX	DC	DCONMS	OAL	LH	APMX		
TERP 332-32-12-L120	3	32	19.3	32	120	40	6.3	•	RPGN 1204 FL...
440-32-12-L120	4	40	27.3	32	120	40	6.3	•	E243

• (1) Use only air (Coolant is prohibited)

Spare parts

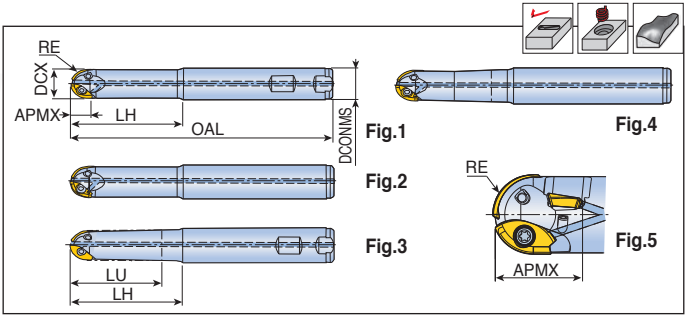
Designation	Clamp	Screw	Wrench		
TERP-12	WFZ 6-C	WS 6	T-W 3		

Cutting Condition E271-E273

ADVANCE MACHINING TaeguTec Industry 4.0

End mills





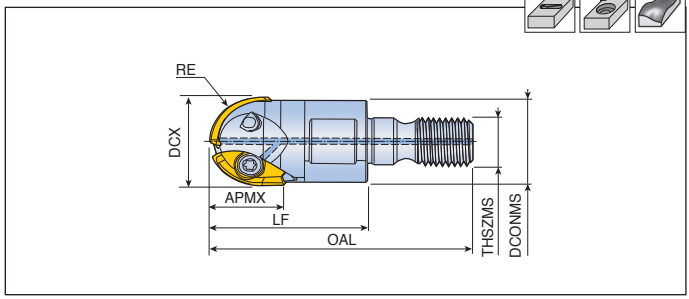
Designation	Dimension (mm)							Fig.	Insert			
	DCX	RE	DCONMS	OAL	LU	LH	APMX		Ball		Periphery	
2F 16-11-W20-L120	16	8	20	120	35.5	60	11.8	3	2FB160 E214	2	-	-
16-11-20-L130	16	8	20	130	45.9	60	11.8	4		2	-	-
16-11-20-L200	16	8	20	200	45.9	60	11.8	4		2	-	-
16-20-W20-L120-P	16	8	20	120	41.8	60	20.5	5		2	APKT 09T3 E225	1
16-20-25-L200-P	16	8	25	200	43.4	65	20.5	5		2		1
20-13-W25-L105	20	10	25	105	-	45	13.6	1	2FB200 E214	2	-	-
20-13-W25-L150	20	10	25	150	45.7	65	13.6	3		2	-	-
20-13-20-L220	20	10	20	220	-	70	13.6	2		2	-	-
20-13-25-L160	20	10	25	160	58.4	75	13.6	4		2	-	-
20-13-25-L220	20	10	25	220	65.7	85	13.6	4		2	-	-
20-22-25-L125-P	20	10	25	125	45.7	65	22.3	5		2	APKT 09T3 E225	1
20-22-25-L200-P	20	10	25	200	74.3	90	22.3	5		2		1
20-22-32-L250-P	20	10	32	250	72.3	100	22.3	5		2		1
25-17-W25-L150	25	12.5	25	150	-	60	17.7	1	2FB250 E214	2	-	-
25-17-32-L150	25	12.5	32	150	55.7	75	17.7	4		2	-	-
25-17-32-L200	25	12.5	32	200	61.6	85	17.7	4		2	-	-
25-17-32-L300	25	12.5	32	300	80	120	17.7	4		2	-	-
25-35-25-L200-P	25	12.5	25	200	-	87.5	35.1	5		2	APKT 09T3 E225	2
25-35-32-L200-P	25	12.5	32	200	-	100	35.1	5		2		2
25-35-32-L250-P	25	12.5	32	250	-	110	35.1	5		2		2
25-43-32-L300-P	25	12.5	32	300	-	120	43.7	5		2		3
30-20-W32-L180	30	15	32	180	-	86.1	20.0	1	2FB300 E214	2	-	-
30-20-30-L250	30	15	30	250	-	104.6	20.0	2		2	-	-
30-20-32-L200	30	15	32	200	-	86.1	20.0	2		2	-	-
30-20-32-L300	30	15	32	300	-	126.1	20.0	2		2	-	-
30-43-32-L160-P	30	15	32	160	-	66	43.7	5		2	APKT 1204 E226	2
30-43-32-L200-P	30	15	32	200	-	85.6	43.7	5		2		2
30-43-32-L250-P	30	15	32	250	-	125.6	43.7	5		2		2
30-51-32-L300-P	30	15	32	300	-	146	55.3	5		2		3
32-21-W32-L200	32	16	32	200	-	100	21.4	1	2FB320 E214	2	-	-
32-21-32-L180	32	16	32	180	-	100	21.4	2		2	-	-
32-21-32-L300	32	16	32	300	-	130	21.4	2		2	-	-
32-44-32-L160-P	32	16	32	160	-	66.4	44.7	5		2	APKT 1204 E226	2
32-44-32-L200-P	32	16	32	200	-	83.7	44.7	5		2		2
32-44-32-L250-P	32	16	32	250	-	123.7	44.7	5		2		2
32-44-32-L300-P	32	16	32	300	-	143.7	44.7	5		2		2

Cutting Condition E271-E273

• Coolant though type

Modular heads





Designation		Dimension (mm)							Coolant hole	Insert
		DCX	RE	DCONMS	LF	OAL	THSZMS	APMX		
2F 16-11-M08	2	16	8	13	25	42.5	M08	11.8	●	2FB160...
20-13-M10	2	20	10	18	30	50	M10	13.6	●	2FB200...
25-17-M12	2	25	12.5	21	35	57	M12	17.7	●	2FB250...
30-20-M16	2	30	15	29	43	68	M16	20.0	●	2FB300...
32-21-M16	2	32	16	29	43	68	M16	21.4	●	2FB320...
										E214

• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw		Wrench		
	Ball	Periphery	Ball	Periphery	
2FB160/APKT 09T3	TS 25064I	TS 25055I/HG	TD 8	TD 8	
2FB200/APKT 09T3	TS 30085I/HG	TS 25055I/HG	TD 9	TD 8	
2FB250/APKT 09T3	TS 35085I/HG	TS 25055I/HG	TD 15	TD 8	
2FB300/APKT 1204	TS 40A100I	TS 35A088I/HG	TD 15	TD 10P	
2FB320/APKT 1204	TS 40A115I	TS 35A088I/HG	TD 15	TD 10P	

Cutting Condition
E271-E273

End mills



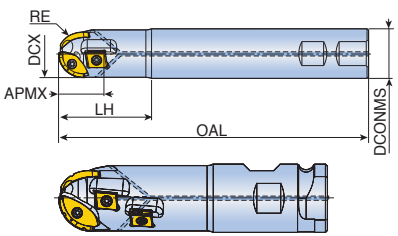


Fig.1

Fig.2

Designation	Dimension (mm)						Fig.	Insert					
	DCX	RE	DCONMS	OAL	LH	APMX		Ball1		Ball2		Periphery	
3F 32-39-W32-150	32	16	32	150	60	39	1	3FB320C-M E215	1	3FB320P-M E215	2	CNHX 131108T E235	2
32-39-W32-200	32	16	32	200	60	39	1		1		2		2
32-39-W32-250	32	16	32	250	60	39	1		1		2		2
50-54-W40-150	50	25	40	150	70	54	1	3FB500C-M E215	1	3FB500P-M E215	2	CNHX 160608T E235	2
50-80-W50-200	50	25	50	200	110	80	1		1		2		4
50-80-W50-250	50	25	50	250	110	80	1		1		2		4
3F 50-68-CN50.8-200	50	25	50.8	200	115	68	2		1		2		3
50-94-CN50.8-250	50	25	50.8	250	165	94	2		1		2		5

• When machining over 'APMX', please calculate Z=1 • Coolant though type

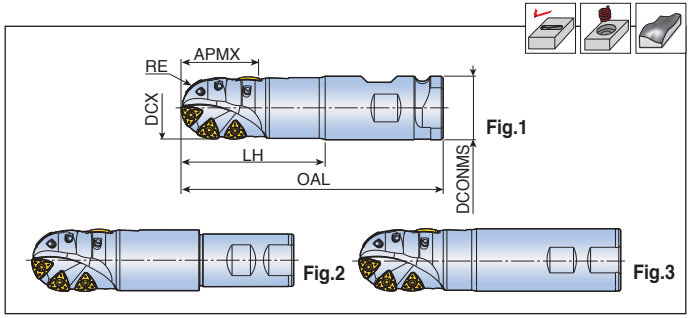
Spare parts

Designation	Screw	Wrench			
3F 32	TS 40093I	TD 15	-		
3F 50	TS 50115I	-	T-T20		

Cutting Condition
E271-E273

End mills





Designation		Dimension (mm)						Fig.	Insert
		DCX	RE	DCONMS	OAL	LH	APMX		
TDB50X 59-CN50.8-L200	6	50	25	50.8	200	110	59	1	6RBE 50-M...
69-CN50.8-L250	7	50	25	50.8	250	160	69	1	E222
TDB50X 59-W40-L200	6	50	25	40	200	128	59	2	
69-W40-L250	7	50	25	40	250	178	69	2	
59-W42-L200	6	50	25	42	200	128	59	2	
69-W42-L250	7	50	25	42	250	178	69	2	
59-W50-L200	6	50	25	50	200	90	59	3	
69-W50-L250	7	50	25	50	250	140	69	3	

Spare parts

Designation	Screw	Wrench			
TDB50X	TS50B106I/HG	T-T20			

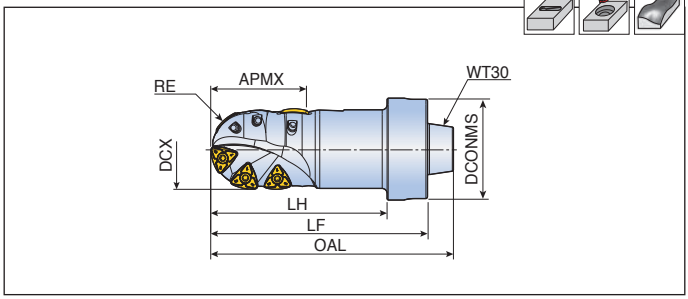
Cutting Condition E271-E273

TDB50X-WT

CHASE2BALL

End mills





Designation		Dimension (mm)							Insert
		DCX	RE	DCONMS	OAL	LH	LF	APMX	
TDB50X 59-WT30-L150	6	50	25	63	150	109	134	59	6RBE 50-M...
69-WT30-L200	7	50	25	63	200	159	184	69	E222

Spare parts

Designation	Screw	Wrench			
TDB50X-WT	TS50B106I/HG	T-T20			

Cutting Condition
E271-E273

TaeguTec

High feed end mills



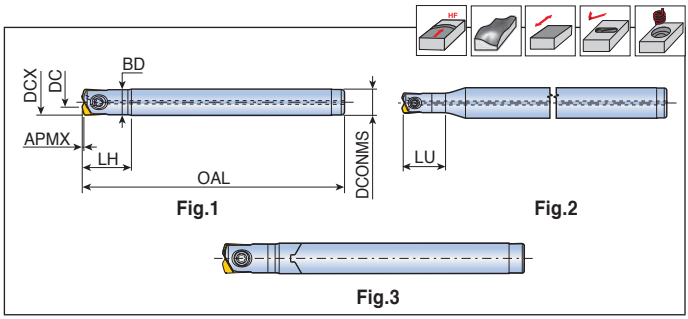


Fig.1 Fig.2

Fig.3

Designation		Dimension (mm)								Coolant hole	Fig.	Insert
		DCX	DC	DCONMS	BD	OAL	LH	LU	APMX			
THFN 060-06-L80	2	6	3	6	5.8	80	13	-	0.3	●	1	HFN 060...
060-10-L120	2	6	3	10	5.8	120	-	13	0.3	●	2	
080-08-L80	2	8	4	8	7.6	80	18	-	0.5	●	1	HFN 080...
080-12-L140	2	8	4	12	7.6	140	-	18	0.5	●	2	
THFN 060-06-CT-L80	2	6	3	6	5.8	80	20	-	0.3	x	3	HFN 060...
060-06-CT-L140	2	6	3	6	5.8	140	25	-	0.3	x	3	
080-08-CT-L80	2	8	4	8	7.6	80	20	-	0.5	x	3	HFN 080...
080-08-CT-L160	2	8	4	8	7.6	160	30	-	0.5	x	3	E236

Cutting Condition E271-E273
Ramping Data E330

• THFN-CT is carbide shank end mill

THFN-S

High feed modular heads



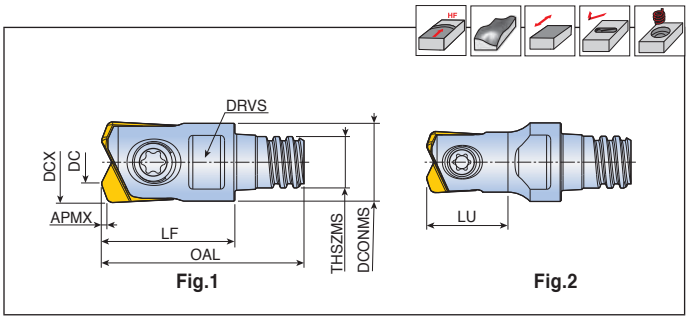


Fig.1 Fig.2

Designation		Dimension (mm)									Coolant hole	Fig.	Insert
		DCX	DC	DCONMS	LF	LU	OAL	THSZMS	APMX	DRVS			
THFN 060-S05	2	6	3	7.6	13	7.8	19.7	S05	0.3	5.5	x	2	HFN 060...
THFN 080-S05	2	8	4	7.6	13	-	19.7	S05	0.5	5.5	x	1	HFN 080...
													E236

• Matched with MAXI-RUSH holder

Spare parts

Designation	Screw	Wrench		Wrench handle	
THFN 060	TS 20F060A	TD 6	-	-	
THFN 080	TS 25F080A	-	TBLD T08-W4	THND 4W	

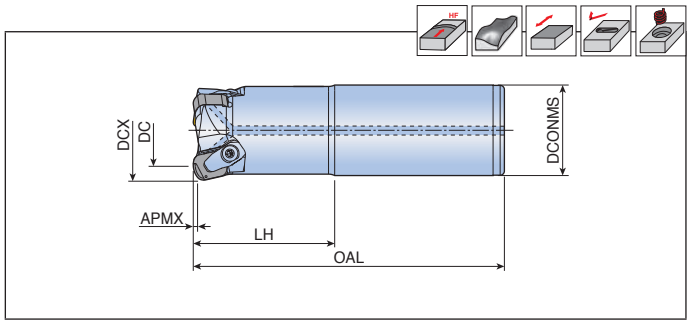
Cutting Condition E271-E273
Ramping Data E330

TEBN-09CH

CERAMICSFEED

High feed end mills





Designation		Dimension (mm)						Air hole (1)	Insert
		DCX	DC	DCONMS	OAL	LH	APMX		
TEBN 225-25-09CH-L100	2	25	14.8	25	100	40	1.5	x	BNGX 0904...
325-25-09CH-L100	3	25	14.8	25	100	40	1.5	x	E234
332-32-09CH-L120	3	32	21.5	32	120	40	1.5	●	
440-32-09CH-L120	4	40	29.4	32	120	40	1.5	●	

• (1) Use only air (Coolant is prohibited)

Spare parts

Designation	Clamp	Screw	Snap ring	Wrench	
TEBN-09CH	CCL-3S	CLS-35A120	CSR 1.25	L-W 2	

Cutting Condition E271-E273
Ramping Data E344

TEPT-05/10

CHASE10MILL

High feed end mills & modular heads



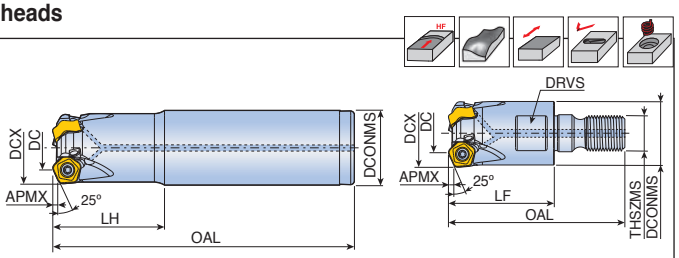


Fig.1 Fig.2

Designation		Dimension (mm)									Coolant hole	Fig.	Insert
		DCX	DC	DCONMS	LF	OAL	THSZMS	LH	DRVS	APMX			
TEPT 320-20-05-L150	3	20	11.9	20	-	150	-	50	-	1.5	●	1	PTKU 0503... E242
425-25-05-L150	4	25	16.8	25	-	150	-	50	-	1.5	●	1	
426-25-05-L200	4	26	17.8	25	-	200	-	30	-	1.5	●	1	
532-32-05-L200	5	32	23.8	32	-	200	-	50	-	1.5	●	1	
533-32-05-L200	5	33	24.8	32	-	200	-	30	-	1.5	●	1	
640-32-05-L200	6	40	31.8	32	-	200	-	30	-	1.5	●	1	
TEPT 320-M10-05	3	20	11.9	18	30	50	M10	-	15	1.5	●	2	
425-M12-05	4	25	16.8	21	35	57	M12	-	17	1.5	●	2	
532-M16-05	5	32	23.8	29	43	68	M16	-	25	1.5	●	2	
640-M16-05	6	40	31.8	29	43	68	M16	-	25	1.5	●	2	
TEPT 340-32-10-L200	3	40	23.5	32	-	200	-	40	-	3.0	●	1	PTKU 1006... E242
TEPT 340-M16-10	3	40	23.5	29	43	68	M16	-	25	3.0	●	2	

• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench		Wrench handle	
TEPT-05	TS 25D060/HG-P	TD 7P	-	-	
TEPT-10	TS 50D130/HG-P	-	TBLD T20P-W6	THND 6W	

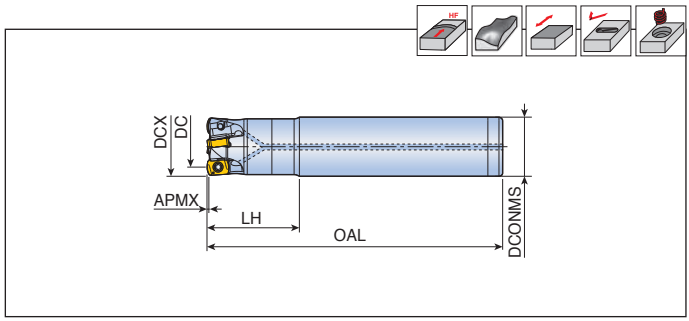
Cutting Condition E271-E273
Ramping Data E328-E329

TEBL-04

CHASE4FEED

High feed end mills





Designation		Dimension (mm)						Coolant hole	Insert
		DCX	DC	DCONMS	OAL	LH	APMX		
TEBL 108-08-04-L80	1	8	3.8	8	80	20	0.5	●	BLMP 0402...
210-10-04-L100	2	10	5.7	10	100	20	0.5	●	E232
211-10-04-L100	2	11	6.6	10	100	20	0.5	●	
312-12-04-L110	3	12	7.6	12	110	20	0.5	●	
313-12-04-L110	3	13	8.6	12	110	20	0.5	●	
416-16-04-L150	4	16	11.6	16	150	25	0.5	●	
417-16-04-L200	4	17	12.6	16	200	25	0.5	●	
520-20-04-L200	5	20	15.5	20	200	25	0.5	●	
521-20-04-L200	5	21	16.5	20	200	25	0.5	●	

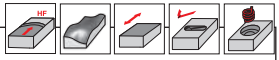
Cutting Condition E271-E273
Ramping Data E331

TEBL-M(S)-04

CHASE4FEED

High feed modular heads





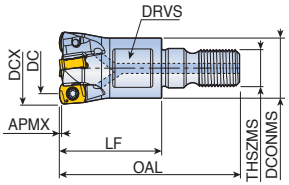


Fig.1

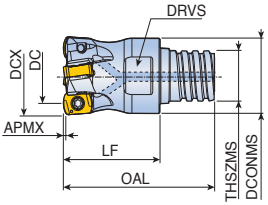


Fig.2

Designation		Dimension (mm)								Coolant hole	Fig.	Insert
		DCX	DC	DCONMS	LF	OAL	THSZMS	APMX	DRVS			
TEBL 210-M06-04	2	10	5.7	9.7	17	31.5	M06	0.5	8	●	1	BLMP 0402... E232
211-M06-04	2	11	6.6	9.7	17	31.5	M06	0.5	8	●	1	
312-M06-04	3	12	7.6	11	17	31.5	M06	0.5	8	●	1	
313-M06-04	3	13	8.6	11	17	31.5	M06	0.5	8	●	1	
416-M08-04	4	16	11.6	13	23	40.5	M08	0.5	10	●	1	
417-M08-04	4	17	12.6	13	23	40.5	M08	0.5	10	●	1	
520-M10-04	5	20	15.5	18	23	43	M10	0.5	15	●	1	
725-M12-04	7	25	20.6	21	27	49	M12	0.5	17	●	1	
832-M16-04	8	32	27.5	29	27	52	M16	0.5	25	●	1	
TEBL 210-S06-04	2	10	5.6	9.6	15	21.3	S06	0.5	8	●	2	
312-S08-04	3	12	7.6	11.5	16	23.5	S08	0.5	10	●	2	
416-S10-04	4	16	11.6	15.2	20	31.3	S10	0.5	13	●	2	

• Matched with T-FLEXTEC holder(Fig.1) & MAXI-RUSH holder(Fig.2)

Spare parts

Designation	Screw	Wrench			
					
TEBL-04	TS 18041I/HG	T 6P			

Cutting Condition E271-E273
Ramping Data E331

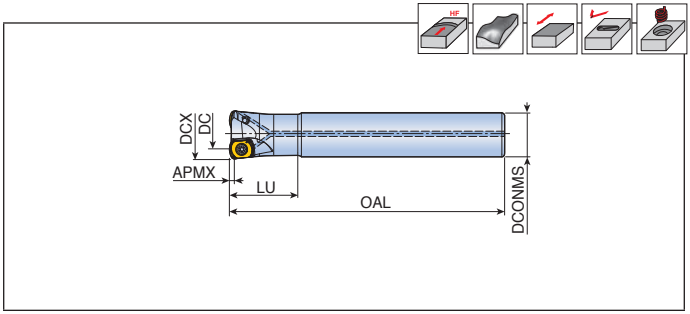
TaeguTec

TEBL-06

CHASE4FEED

High feed end mills





Designation			Dimension (mm)						Coolant hole	Insert
			DCX	DC	DCONMS	OAL	LU	APMX		
TEBL	**216-15-06-L150**	2	16	9.4	15	150	40	0.7	●	BLMP 0603...
	216-16-06	2	16	9.4	16	150	40	0.7	●	E232
	216-16-06-S	2	16	9.4	16	100	30	0.7	●	
	217-16-06	2	17	10.1	16	150	40	0.7	●	
	217-16-06-S	2	17	10.1	16	100	30	0.7	●	
	217-16-06-L200	2	17	10.1	16	200	20	0.7	●	
	218-16-06	2	18	11.1	16	150	25	0.7	●	
	220-20-06-L200	2	20	12.4	20	200	80	1.0	●	
	320-19-06-L180	3	20	12.4	19	180	80	1.0	●	
	320-20-06	3	20	12.4	20	160	80	1.0	●	
	320-20-06-S	3	20	12.4	20	130	50	1.0	●	
	420-20-06-S	4	20	12.4	20	130	50	1.0	●	
	321-20-06-S	3	21	13.4	20	150	20	1.0	●	
	321-20-06-L200	3	21	13.4	20	200	20	1.0	●	
	325-25-06-L220	3	25	17.3	25	220	50	1.0	●	
	425-24-06-L180	4	25	17.3	24	180	60	1.0	●	
	425-25-06	4	25	17.3	25	180	60	1.0	●	
	425-25-06-S	4	25	17.3	25	140	60	1.0	●	
	525-25-06-S	5	25	17.3	25	140	60	1.0	●	
	425-25-06-L250	4	25	17.3	25	250	40	1.0	●	
	326-25-06-L200	3	26	18.3	25	200	30	1.0	●	
	326-25-06-L250	3	26	18.3	25	250	30	1.0	●	
	426-25-06-S	4	26	18.3	25	150	30	1.0	●	
	426-25-06-L200	4	26	18.3	25	200	30	1.0	●	
	426-25-06-L250	4	26	18.3	25	250	30	1.0	●	
	530-32-06-S	5	30	22.3	32	150	70	1.0	●	
	530-32-06-L200	5	30	22.3	32	200	120	1.0	●	
	432-32-06-S	4	32	24.3	32	150	70	1.0	●	
	532-32-06-S	5	32	24.3	32	150	70	1.0	●	
	532-32-06-L200	5	32	24.3	32	200	120	1.0	●	
	433-32-06-L220	4	33	25.3	32	220	40	1.0	●	
	433-32-06-L300	4	33	25.3	32	300	50	1.0	●	
	533-32-06-S	5	33	25.3	32	150	30	1.0	●	
	533-32-06-L200	5	33	25.3	32	200	40	1.0	●	
	533-32-06-L250	5	33	25.3	32	250	40	1.0	●	

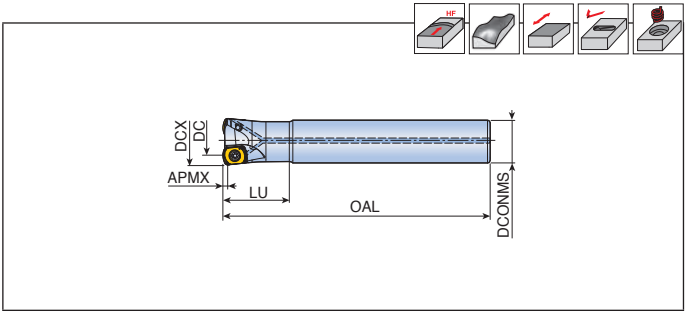
Cutting Condition E271-E273
Ramping Data E332

TEBL-06

CHASE4FEED

High feed end mills





Designation		Dimension (mm)						Coolant hole	Insert
		DCX	DC	DCONMS	OAL	LU	APMX		
TEBL 435-32-06-L200	4	35	27.3	32	200	50	1.0	●	BLMP 0603...
435-32-06-L300	4	35	27.3	32	300	50	1.0	●	E232
535-32-06-L200	5	35	27.3	32	200	50	1.0	●	
535-32-06-L300	5	35	27.3	32	300	50	1.0	●	
540-32-06-L220	5	40	32.2	32	220	40	1.0	●	
640-32-06-S	6	40	32.2	32	150	40	1.0	●	
640-32-06-L220	6	40	32.2	32	220	40	1.0	●	

Spare parts

Designation	Screw	Wrench			
					
TEBL-06	TS 25064I/HG-P	TD 8P			

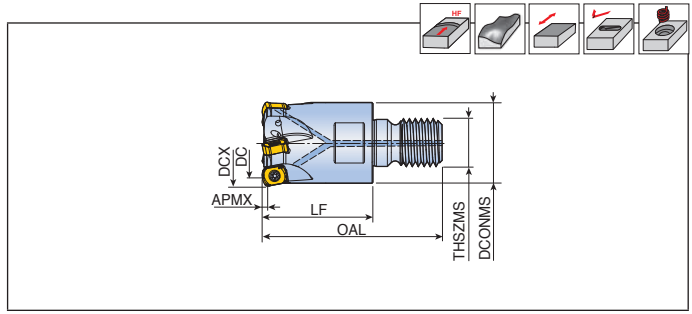
Cutting Condition E271-E273
Ramping Data E332

TEBL-M-06

CHASE4FEED

High feed modular heads





Designation		Dimension (mm)							Coolant hole	Insert
		DCX	DC	DCONMS	LF	OAL	THSZMS	APMX		
TEBL 216-M08-06	2	16	9.4	13	25	42.5	M08	0.7	●	BLMP 0603... E232
217-M08-06	2	17	10.1	13	25	42.5	M08	0.7	●	
218-M08-06	2	18	11.1	13	25	42.5	M08	0.7	●	
220-M10-06	2	20	12.4	18	30	50	M10	1.0	●	
320-M10-06	3	20	12.4	18	30	50	M10	1.0	●	
321-M10-06	3	21	13.4	18	30	50	M10	1.0	●	
322-M10-06	3	22	14.4	18	30	50	M10	1.0	●	
325-M12-06	3	25	17.3	21	35	57	M12	1.0	●	
425-M12-06	4	25	17.3	21	35	57	M12	1.0	●	
326-M12-06	3	26	18.3	21	35	57	M12	1.0	●	
426-M12-06	4	26	18.3	21	35	57	M12	1.0	●	
530-M16-06	5	30	22.3	29	40	65	M16	1.0	●	
432-M16-06	4	32	24.3	29	40	65	M16	1.0	●	
532-M16-06	5	32	24.3	29	40	65	M16	1.0	●	
433-M16-06	4	33	25.3	29	40	65	M16	1.0	●	
533-M16-06	5	33	25.3	29	40	65	M16	1.0	●	
435-M16-06	4	35	27.3	29	43	68	M16	1.0	●	
535-M16-06	5	35	27.3	29	43	68	M16	1.0	●	
640-M16-06	6	40	32.2	29	43	68	M16	1.0	●	
542-M16-06	5	42	34.2	29	43	68	M16	1.0	●	
642-M16-06	6	42	34.2	29	43	68	M16	1.0	●	

• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench			
					
TEBL-06	TS 25064I/HG-P	TD 8P			

Cutting Condition E271-E273
Ramping Data E332

ADVANCE MACHINING TaeguTec Industry 4.0

TEBL-09

CHASE4FEED

High feed end mills



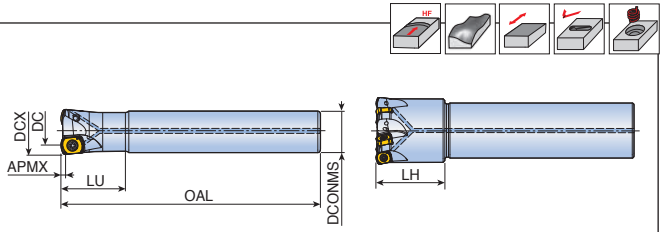


Fig.1 Fig.2

Designation			Dimension (mm)							Coolant hole	Fig.	Insert
			DCX	DC	DCONMS	OAL	LU	LH	APMX			
TEBL	225-25-09-L150	2	25	14.7	25	150	70	-	1.5	●	1	BLMP 0904...
	225-25-09-L200	2	25	14.7	25	200	100	-	1.5	●	1	E232
	325-25-09-L150	3	25	14.7	25	150	70	-	1.5	●	1	
	325-25-09-L200	3	25	14.7	25	200	110	-	1.5	●	1	
	326-25-09-L150	3	26	15.7	25	150	30	-	1.5	●	1	
	326-25-09-L220	3	26	15.7	25	220	30	-	1.5	●	1	
	330-32-09-L160	3	30	19.6	32	160	70	-	1.5	●	1	
	330-32-09-L220	3	30	19.6	32	220	120	-	1.5	●	1	
	332-32-09-L160	3	32	21.6	32	160	70	-	1.5	●	1	
	332-32-09-L220	3	32	21.6	32	220	120	-	1.5	●	1	
	432-32-09-L160	4	32	21.6	32	160	70	-	1.5	●	1	
	432-32-09-L220	4	32	21.6	32	220	120	-	1.5	●	1	
	433-32-09-L180	4	33	22.6	32	180	30	-	1.5	●	1	
	433-32-09-L250	4	33	22.6	32	250	30	-	1.5	●	1	
	440-32-09-L180	4	40	29.6	32	180	-	40	1.5	●	2	
	440-32-09-L250	4	40	29.6	32	250	-	40	1.5	●	2	
	540-32-09-L180	5	40	29.6	32	180	-	40	1.5	●	2	
	540-32-09-L250	5	40	29.6	32	250	-	40	1.5	●	2	

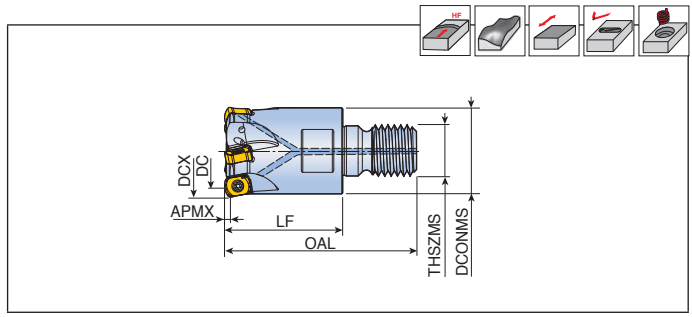
Cutting Condition E271-E273
Ramping Data E333

TEBL-M-09

CHASE4FEED

High feed modular heads





Designation		Dimension (mm)							Coolant hole	Insert
		DCX	DC	DCONMS	LF	OAL	THSZMS	APMX		
TEBL 225-M12-09	2	25	14.7	21	35	57	M12	1.5	●	BLMP 0904... E232
325-M12-09	3	25	14.7	21	35	57	M12	1.5	●	
326-M12-09	3	26	15.7	21	35	57	M12	1.5	●	
330-M16-09	3	30	19.6	29	43	68	M16	1.5	●	
332-M16-09	3	32	21.6	29	43	68	M16	1.5	●	
432-M16-09	4	32	21.6	29	43	68	M16	1.5	●	
433-M16-09	4	33	22.6	29	43	68	M16	1.5	●	
335-M16-09	3	35	24.6	29	43	68	M16	1.5	●	
435-M16-09	4	35	24.6	29	43	68	M16	1.5	●	
440-M16-09	4	40	29.6	29	43	68	M16	1.5	●	
540-M16-09	5	40	29.6	29	43	68	M16	1.5	●	
542-M16-09	5	42	31.6	29	43	68	M16	1.5	●	

• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench			
					
TEBL-09	TS 35A088I/HG	TD 10P			

Cutting Condition E271-E273
Ramping Data E333

ADVANCE MACHINING TaeguTec Industry 4.0

TEBL-11

CHASE4FEED

High feed end mills & modular heads



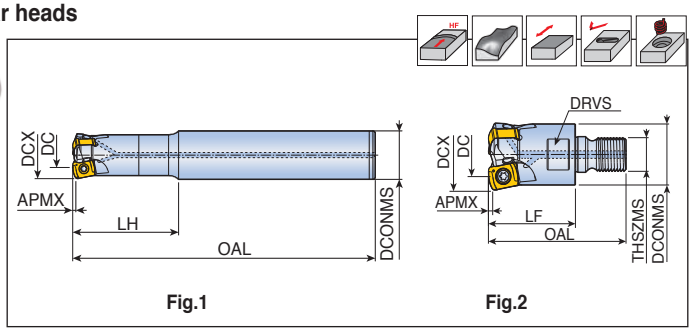


Fig.1 Fig.2

Designation			Dimension (mm)									Coolant hole	Fig.	Insert
			DCX	DC	DCONMS	OAL	THSZMS	LH	LF	DRVS	APMX			
TEBL	**230-32-11-L150**	2	30	14.7	32	150	-	70	-	-	2.0	●	1	BLMP 1105... E232
	232-32-11-L150	2	32	16.6	32	150	-	70	-	-	2.0	●	1	
	232-32-11-L200	2	32	16.6	32	200	-	70	-	-	2.0	●	1	
	332-32-11-L200	3	32	16.6	32	200	-	70	-	-	2.0	●	1	
	233-32-11-L200	2	33	17.6	32	200	-	40	-	-	2.0	●	1	
	233-32-11-L250	2	33	17.6	32	250	-	50	-	-	2.0	●	1	
	333-32-11-L250	3	33	17.6	32	250	-	50	-	-	2.0	●	1	
	335-32-11-L200	3	35	19.5	32	200	-	40	-	-	2.0	●	1	
	340-32-11-L150	3	40	24.4	32	150	-	40	-	-	2.0	●	1	
	340-32-11-L200	3	40	24.4	32	200	-	40	-	-	2.0	●	1	
	440-32-11-L200	4	40	24.4	32	200	-	40	-	-	2.0	●	1	
TEBL	**230-M16-11**	2	30	14.7	29	68	M16	-	43	25	2.0	●	2	
	232-M16-11	2	32	16.6	29	68	M16	-	43	25	2.0	●	2	
	233-M16-11	2	33	17.6	29	68	M16	-	43	25	2.0	●	2	
	335-M16-11	3	35	19.5	29	68	M16	-	43	25	2.0	●	2	
	340-M16-11	3	40	24.4	29	68	M16	-	43	25	2.0	●	2	
	342-M16-11	3	42	26.4	29	68	M16	-	43	25	2.0	●	2	

• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench	Wrench handle		
					
TEBL-11	TS 50A121I/HG	TBLD T20-W6	THND 6W		

Cutting Condition E271-E273

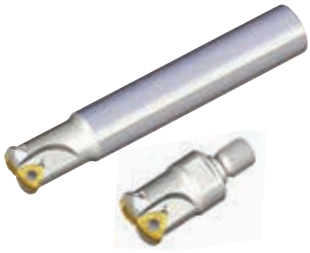
Ramping Data E334

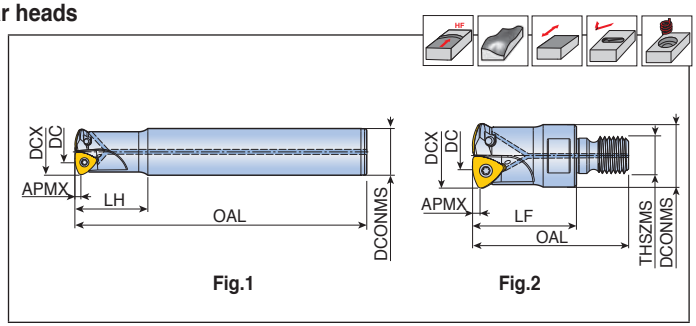
TaeguTec

TEBL-13

CHASE2FEED

High feed end mills & Modular heads





Designation		Dimension (mm)								Coolant hole	Fig.	Insert
		DCX	DC	DCONMS	OAL	THSZMS	LH	LF	APMX			
TEBL 232-32-13-L150	2	32	12.9	32	150	-	50	-	2.0	●	1	BLMP 1306...
232-32-13-L200	2	32	12.9	32	200	-	80	-	2.0	●	1	E233
232-32-13-L	2	32	12.9	32	200	-	120	-	2.0	●	1	
233-32-13-L200	2	33	14.3	32	200	-	50	-	2.0	●	1	
233-32-13-L250	2	33	14.3	32	250	-	50	-	2.0	●	1	
235-32-13-L200	2	35	16.1	32	200	-	30	-	2.0	●	1	
240-42-13-XL	2	40	20.7	42	300	-	120	-	2.0	●	1	
340-32-13-L150	3	40	20.7	32	150	-	40	-	2.0	●	1	
340-32-13-L200	3	40	20.7	32	200	-	70	-	2.0	●	1	
340-42-13-S	3	40	20.7	42	150	-	70	-	2.0	●	1	
TEBL 232-M16-13	2	32	12.9	30	75	M16	-	50	2.0	●	2	
233-M16-13	2	33	14.3	30	75	M16	-	50	2.0	●	2	
235-M16-13	2	35	16.1	30	75	M16	-	50	2.0	●	2	
340-M16-13	3	40	20.7	30	75	M16	-	50	2.0	●	2	
342-M16-13	3	42	22.6	30	75	M16	-	50	2.0	●	2	

• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench			
					
TEBL-13	TS50B106I/HG	T-T20			

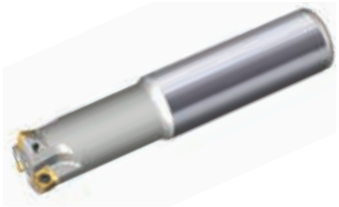
Cutting Condition E271-E273
Ramping Data E335

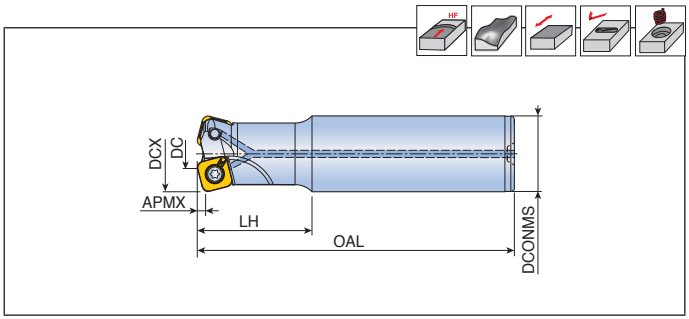
ADVANCE MACHINING Industry 4.0
TaeguTec

TESB-06/09

CHASEFEED

High feed end mills





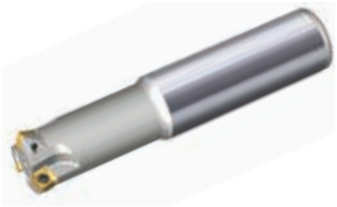
Designation		Dimension (mm)						Coolant hole	Insert
		DCX	DC	DCONMS	OAL	LH	APMX		
TESB 216-16-06-L150	2	16	5.9	16	150	40	1.0	●	SBMT 0603... 247
217-16-06-L200	2	17	6.8	16	200	20	1.0	●	
320-20-06-L160	3	20	9.8	20	160	50	1.0	●	
420-20-06-L130	4	20	9.8	20	130	50	1.0	●	
321-20-06-L200	3	21	10.7	20	200	20	1.0	●	
425-25-06-L180	4	25	14.8	25	180	60	1.0	●	
525-25-06-L140	5	25	14.8	25	140	60	1.0	●	
532-32-06-L200	5	32	21.8	32	200	80	1.0	●	
TESB 225-25-09-L150	2	25	10.8	25	150	70	1.2	●	SBMT 0904... E247
225-25-09-L200	2	25	10.8	25	200	70	1.2	●	
325-25-09-L150	3	25	10.8	25	150	70	1.2	●	
325-25-09-L200	3	25	10.8	25	200	70	1.2	●	
226-25-09-L200	2	26	11.7	25	200	30	1.2	●	
226-25-09-L250	2	26	11.7	25	250	30	1.2	●	
326-25-09-L150	3	26	11.7	25	150	30	1.2	●	
326-25-09-L200	3	26	11.7	25	200	30	1.2	●	
326-25-09-L250	3	26	11.7	25	250	30	1.2	●	
330-32-09-L200	3	30	15.5	32	200	70	1.2	●	
332-32-09-L160	3	32	17.4	32	160	70	1.2	●	
332-32-09-L200	3	32	17.4	32	200	70	1.2	●	
332-32-09-L300	3	32	17.4	32	300	70	1.2	●	
432-32-09-L160	4	32	17.4	32	160	70	1.2	●	
432-32-09-L220	4	32	17.4	32	220	70	1.2	●	
233-32-09-L250	2	33	18.4	32	250	30	1.2	●	
333-32-09-L250	3	33	18.4	32	250	30	1.2	●	
333-32-09-L300	3	33	18.4	32	300	30	1.2	●	
433-32-09-L180	4	33	18.4	32	180	30	1.2	●	
433-32-09-L250	4	33	18.4	32	250	30	1.2	●	
335-32-09-L250	3	35	20.4	32	250	30	1.2	●	
440-32-09-L250	4	40	25.4	32	250	40	1.2	●	
440-32-09-L300	4	40	25.4	32	300	40	1.2	●	
540-32-09-L180	5	40	25.4	32	180	40	1.2	●	
540-32-09-L250	5	40	25.4	32	250	40	1.2	●	

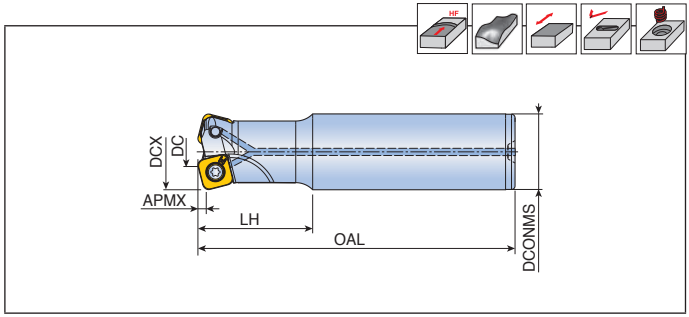
Cutting Condition E271-E273
Ramping Data E336-E337

TESB-13

CHASEFEED

High feed end mills





Designation		Dimension (mm)						Coolant hole	Insert
		DCX	DC	DCONMS	OAL	LH	APMX		
TESB 232-32-13-L150	2	32	11.6	32	150	50	2.0	●	SBMT 1306... E247
232-32-13-L200	2	32	11.6	32	200	80	2.0	●	
233-32-13-L200	2	33	12.6	32	200	30	2.0	●	
233-32-13-L250	2	33	12.6	32	250	50	2.0	●	
235-32-13-L200	2	35	14.6	32	200	30	2.0	●	
340-32-13-L150	3	40	19.5	32	150	30	2.0	●	
340-32-13-L200	3	40	19.5	32	200	30	2.0	●	
342-32-13-L200	3	42	21.5	32	200	30	2.0	●	

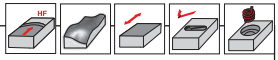
Cutting Condition E271-E273
Ramping Data E338

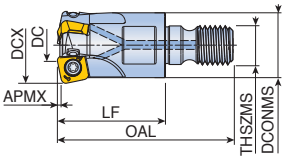
TESB-M-06/09/13

CHASEFEED

High feed modular heads







Designation		Dimension (mm)							Coolant hole	Insert
		DCX	DC	DCONMS	LF	OAL	THSZMS	APMX		
TESB 216-M08-06	2	16	5.9	13	25	42.5	M08	1.0	•	SBMT 0603... E247
320-M10-06	3	20	9.8	18	30	50	M10	1.0	•	
425-M12-06	4	25	14.8	21	35	57	M12	1.0	•	
532-M16-06	5	32	21.8	29	40	65	M16	1.0	•	
TESB 225-M12-09	2	25	10.8	21	35	57	M12	1.2	•	SBMT 0904... E247
325-M12-09	3	25	10.8	21	35	57	M12	1.2	•	
332-M16-09	3	32	17.4	29	43	68	M16	1.2	•	
432-M16-09	4	32	17.4	29	43	68	M16	1.2	•	
435-M16-09	4	35	20.4	29	43	68	M16	1.2	•	
440-M16-09	4	40	25.4	29	43	68	M16	1.2	•	
540-M16-09	5	40	25.4	29	43	68	M16	1.2	•	
542-M16-09	5	42	27.4	29	43	68	M16	1.2	•	
TESB 232-M16-13	2	32	11.6	29	50	75	M16	2.0	•	SBMT 1306... E247
233-M16-13	2	33	12.6	29	50	75	M16	2.0	•	
340-M16-13	3	40	19.5	29	50	75	M16	2.0	•	
342-M16-13	3	42	21.5	29	50	75	M16	2.0	•	

• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench			
					
TESB-06	TS 250648I/HG-P	TD 8P	-		
TESB-09	TS 35A088I/HG	TD 10P	-		
TESB-13	TS 50115I	-	T-T20		

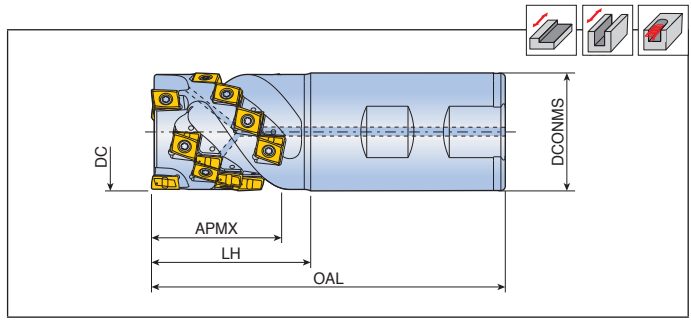
Cutting Condition E271-E273
Ramping Data E336-E338

4T-TEF-05/09

TANGSFEED

Extended flute cutters





90°

Designation		No. of insert	Dimension (mm)					Coolant hole	Insert
			DC	DCONMS	OAL	LH	APMX		
4T-TEF	D16-15-W16-05	2	8	16	16	80	28	15	●	LPK(H)U 0502... E238
	D20-23-W20-05	3	18	20	20	85	33	23	●	
	D25-27-W25-05	4	28	25	25	95	35	27	●	
4T-TEF	D25-36-W25-09	2	10	25	25	100	43	36	●	LPK(H)U 0904... E238
	D32-36-W32-09	3	15	32	32	105	44	36	●	
	D32-43-W32-09	3	18	32	32	115	52	43	●	
	D40-43-W40-09	3	18	40	40	125	54	43	●	
	D40-51-W40-09	3	21	40	40	135	64	51	●	

Spare parts

Designation	Screw	Wrench		Wrench handle	
4T-TEF-05	TS 18041I/SG-P	TD 6P	-	-	
4T-TEF-09	TS 30D082-P	-	TBLD T08P-W4	THND 4W	

Cutting Condition E271-E273

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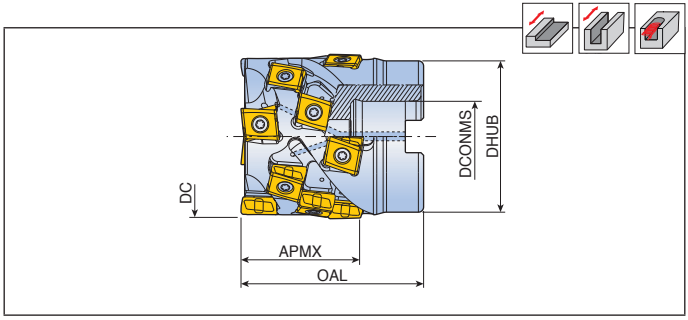
4T-TES-14

TANGSFEED

Extended flute cutters



90°



Designation		No. of insert	Dimension (mm)					Coolant hole	Kg	Mounting bolt	Insert
			DC	DCONMS	DHUB	OAL	APMX				
4T-TES	**D50-34-22R-14**	3	50	22	45	55	34	•	0.5	SH M10x40	LPKU 1407... E238
	D50-45-22R-14	3	50	22	45	65	45	•	0.6	SH M10x50	
	D63-45-27R-14	4	63	27	58	70	45	•	1.1	SH M12x50	
	D63-56-27R-14	4	63	27	58	80	56	•	1.3	SH M12x60	
	D80-56-32R-14	5	80	32	74	85	56	•	2.3	SH M16x60	
	D100-56-40R-14	6	100	40	94	90	56	•	4.1	SH M20x60	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench	Wrench handle		
4T-TES-14	TS 40G110I	TBLD T15-W6	SW6-T		

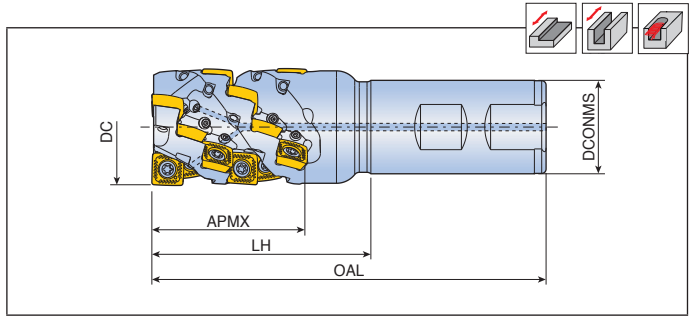
Cutting Condition E271-E273
Arbor Style E274-E275

4S-TEF-11V

CHASE VQUAD

Extended flute cutters





90°

Designation		No. of insert	Dimension (mm)					Coolant hole	Insert
			DC	DCONMS	OAL	LH	APMX		
4S-TEF-	**D32-52-W32-11V-2F**	2	12	32	32	135	70	52	●	SVK(H)T 1145... E258
	D40-52-W32-11V-3F	3	18	40	32	135	75	52	●	
	D40-60-W32-11V-3F	3	21	40	32	180	85	60	●	
	D50-52-W40-11V-4F	4	24	50	40	145	75	52	●	
	D50-77-W40-11V-4F	4	36	50	40	170	100	77.9	●	

Spare parts

Designation	Screw	Wrench	Wrench handle	Coolant Nozzle	
4S-TEF-11V	TS 40093I/HG	TBLD T15-W6	THND 6W	SS 3003-06C	

Cutting Condition E271-E273

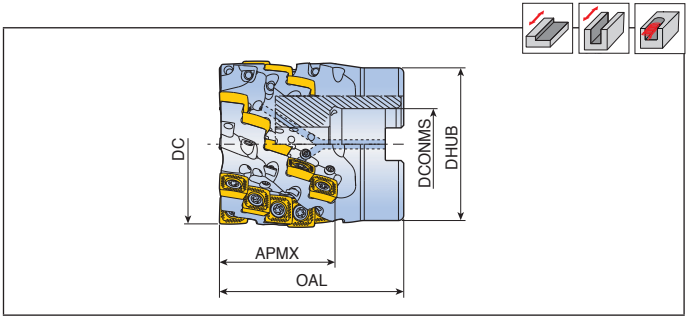
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4S-TES-11V

CHASE VQUAD

Extended flute cutters





90°

Designation	No. of insert	Dimension (mm) DC	DCONMS	DHUB	OAL	APMX	Coolant hole	Arbor style	Kg	Mounting bolt	Insert
4S-TES-D40-27-16R-11V-3F	3	9	40	16	38	55	27	•	A	0.3	SH M8x40	SVK(H)T 1145... E258
D50-43-22R-11V-4F	4	20	50	22	45	65	43	•	A	0.6	SH M10x50	
D50-69-22R-11V-4F	4	32	50	22	45	90	69	•	A	0.8	SH M10x80	
D63-60-27R-11V-5F	5	35	63	27	58	85	60	•	A	1.2	SH M12x60	
D63-69-27R-11V-5F	5	40	63	27	58	93	69	•	A	1.4	SH M12x80	
D80-76-32R-11V-6F	6	54	80	32	76	100	76	•	A	2.6	SH M16x80	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

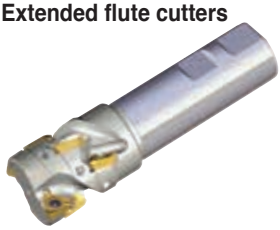
Spare parts

Designation	Screw	Wrench	Wrench handle	Coolant Nozzle	
4S-TES-11V	TS 40093I/HG	TBLD T15-W6	SW6-T	SS 3003-06C	

Cutting Condition E271-E273
Arbor Style E274-E275

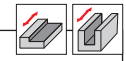
3P TEF-06/10/15/19

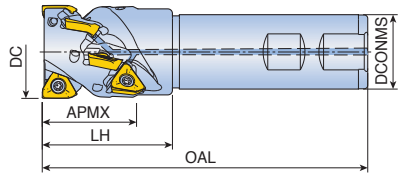
Extended flute cutters



90°

90°	Splitter
	 15,19





Designation		No. of insert	Dimension (mm)					Coolant hole	Insert
			DC	DCONMS	OAL	LH	APMX		
3P TEF	**D20-20-W20-06**	2	10	20	20	85	33	20	x	3PK(H)T 0603...
	D25-24-W25-06	3	18	25	25	95	39	24	●	
	D32-32-W32-06	4	32	32	32	105	43	32	●	
3P TEF	**D32-42-W32-10**	2	14	32	32	120	56	42	●	3PK(H)T 1004...
	D40-42-W32-10	3	21	40	32	130	56	42	●	
3P TEF	**D40-40-W32-15**	2	8	40	32	140	56	40	●	3PK(H)T 1505...
3P TEF	**D50-55-W40-19**	2	8	50	40	150	75	55	●	3PK(H)T 1906... E216-E217

Spare parts

Designation	Screw	Wrench			
					
3P TEF-06	TS 20043I/HG-P	TD 6P	-		
3P TEF-10	TS 25C065I/HG	TD 8	-		
3P TEF-15	TS 40B100I	TD 15	-		
3P TEF-19	TS 45120I	-	T-T20		

Cutting Condition E271-E273

3P TES-10/15/19

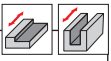
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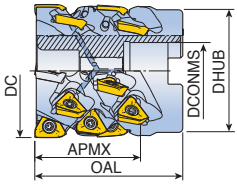
Extended flute cutters



90°

90°	Splitter
	 15,19





Designation		No. of insert	Dimension (mm) DC	DCONMS	DHUB	OAL	APMX	Coolant hole	Kg	Mounting bolt	Insert
3P TES	**D50-48-22R-10**	4	32	50	22	45	65	48	●	0.6	SH M10x50	3PK(H)T 1004...
	D63-54-27R-10	4	36	63	27	58	75	54	●	1.2	SH M12x50	
3P TES	**D50-40-22R-15-2F**	2	8	50	22	45	65	40	●	0.6	SH M10x50	3PK(H)T 1505...
	D50-40-22R-15	3	12	50	22	45	65	40	●	0.6	SH M10x50	
	D63-50-27R-15	4	20	63	27	58	70	50	●	1.0	SH M12x50	
	D80-60-32R-15	4	24	80	32	77	75	60	●	2.0	SH M16x50	
	D100-78-40R-15-4F	4	32	100	40	96	110	78	●	5.0	SH M20x80	
3P TES	**D63-42-27R-19**	3	9	63	27	58	70	42	●	1.0	SH M12x50	3PK(H)T 1906... E216-E217
	D63-42-27R-19-4F	4	12	63	27	58	70	42	●	1.0	SH M12x50	
	D80-56-32R-19	4	16	80	32	76	75	56	●	1.7	SH M16x50	
	D100-83-40R-19-4F	4	24	100	40	96	110	83	●	4.4	SH M20x80	
	D100-83-40R-19	5	30	100	40	96	110	83	●	4.5	SH M20x80	
	D100-83-40R-19-6F	6	36	100	40	96	110	83	●	4.6	SH M20x80	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
					
3P TES-10	TS 25C065I/HG	TD 8	-		
3P TES-15	TS 40B100I	TD 15	-		
3P TES-19	TS 45120I	-	T-T20		

Cutting Condition E271-E273

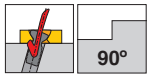
Arbor Style E274-E275

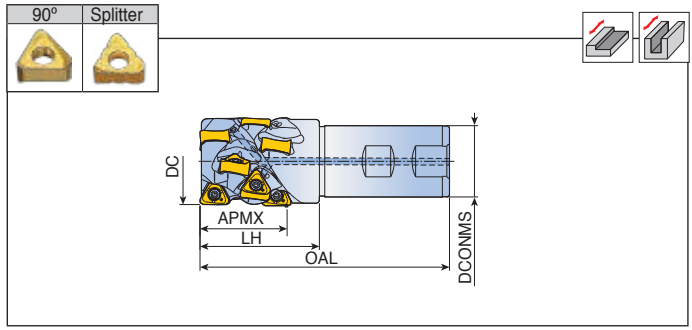
TaeguTec Member IMC Group

TEF-TN18

Extended flute cutters







Designation		No. of insert	Dimension (mm)					Coolant hole	Insert
			DC	DCONMS	OAL	LH	APMX		
TEF	D50-48-W40-TN18-2F	2	50	40	140	67	48	●	TNMX 1806...
	D50-48-W40-TN18	3	50	40	140	67	48	●	E261

Spare parts

Designation	Screw	Wrench			
TEF-TN18	TS 40B100I	T-T15			

Cutting Condition
E271-E273

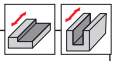
TES-TN18

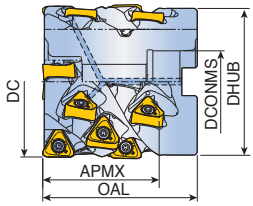
MILL2RUSH

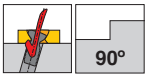
Extended flute cutters



90°	Splitter
	







Designation		No. of insert	Dimension (mm) DC	DCONMS	DHUB	OAL	APMX	Coolant hole	Kg	Mounting bolt	Insert
TES	D63-48-27R-TN18-2F	2	8	63	27	60	70	48	●	1.2	SH M12x50	TNMX 1806... E261
	D63-48-27R-TN18	3	12	63	27	60	70	48	●	1.1	SH M12x50	
	D80-60-32R-TN18	4	20	80	32	76	80	60	●	2.2	SH M16x60	
	D100-71-40R-TN18-4F	4	24	100	40	96	100	71	●	4.5	SH M20x70	
	D100-71-40R-TN18	5	30	100	40	96	100	71	●	4.4	SH M20x70	
	D100-71-40R-TN18-6F	6	36	100	40	96	100	71	●	4.4	SH M20x70	

Spare parts

Designation	Screw	Wrench			
					
TES-TN18	TS 40B100I	T-T15			

Cutting Condition E271-E273
Arbor Style E274-E275

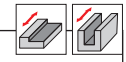
CHASE2MILL

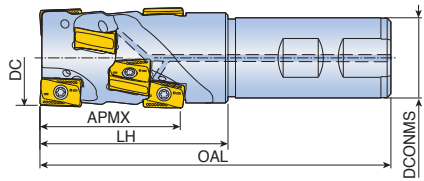
Extended flute cutters



90°

90°	Splitter
	





Designation		No. of insert	Dimension (mm)					Coolant hole	Insert
			DC	DCONMS	OAL	LH	APMX		
TEF **D32-40-W32-AN11**	2	8	32	32	110	48	40	●	ANM(H)X 1106··· E224
D40-40-W32-AN11	3	12	40	32	125	50	40	●	
TEF **D40-42-W32-AN16**	2	6	40	32	120	55	42	●	ANM(H)X 1607··· E224
D40-56-W32-AN16	2	8	40	32	140	75	56	●	
D50-56-W40-AN16	3	12	50	40	140	70	56	●	

Spare parts

Designation	Screw	Wrench			
					
TEF-AN11	TS 35A088I/HG	TD 10P	-		
TEF-AN16	TS 40120I/HG	-	T-T15		

Cutting Condition
E271-E273

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TaeguTec Industry 4.0

TES-AN11/16

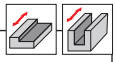
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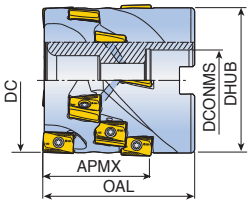
Extended flute cutters



90°

90°	Splitter
	





Designation		No. of insert	Dimension (mm)					Coolant hole	Kg	Mounting bolt	Insert
			DC	DCONMS	DHUB	OAL	APMX				
TES	D50-40-22R-AN11	3	12	50	22	45	60	40	•	0.6	SH M10x40	ANM(H)X 1106··· E224
	D63-60-27R-AN11	4	24	63	27	60	80	60	•	1.3	SH M12x60	
	D80-60-32R-AN11	5	30	80	32	76	80	60	•	2.3	SH M16x60	
TES	D50-42-22R-AN16	2	6	50	22	47	65	42	•	0.7	SH M10x40	ANM(H)X 1607··· E224
	D63-42-27R-AN16	3	9	63	27	60.5	70	42	•	1.1	SH M12x50	
	D63-56-27R-AN16	3	12	63	27	60.5	80	56	•	1.3	SH M12x50	
	D80-56-32R-AN16	4	16	80	32	76.5	80	56	•	2.2	SH M16x50	
	D100-69-40R-AN16	5	25	100	40	96.4	100	69	•	4.5	SH M20x60	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
					
TES-AN11	TS 35A088I/HG	TD 10P	-		
TES-AN16	TS 40120I/HG	-	T-T15		

Cutting Condition E271-E273
Arbor Style E274-E275

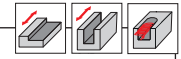
TEF-AP(AX)

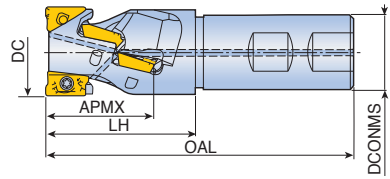
Extended flute cutters



90°

90°	Splitter
	 12,17





Designation		No. of insert	Dimension (mm)					Coolant hole	Insert
			DC	DCONMS	OAL	LH	APMX		
TEF	D16-16-W16-AX06	2	6	16	16	80	28	16	x	AXM(C)T 0602... E231
	D20-21-W20-AX06	3	12	20	20	85	33	21	●	
	D25-26-W25-AX06	4	20	25	25	95	38	26	●	
2S-TEF	D20-25-W20-AP09	1	3	20	20	110	38	26	●	APK(C)T 09T3... E225
	D25-42-W25-AP09	2	10	25	25	115	48	42	●	
	D32-42-W32-AP09	2	10	32	32	120	51	42	●	
TEF	D25-34-W25-AP12	2	6	25	25	120	47	34	●	APK(C)T 1204... E226
	D32-45-W32-AP12	2	8	32	32	120	58	45	●	
	D40-45-W32-AP12	3	12	40	32	140	65	45	●	
TEF	D32-30-W32-AP17	2	4	32	32	120	50	30	●	APK(C)T 1705/1706... E227-E228
	D40-44-W32-AP17	2	6	40	32	140	65	44	●	

Spare parts

Designation	Screw	Wrench			
					
TEF-AX06	TS 18041 I/HG	TD 6P			
2S-TEF-AP09	TS 25055I/HG	TD 8			
TEF-AP12(Ø16-Ø25)	TS 35A070I/HG	TD 10P			
TEF-AP12(Ø32-)	TS 35A088I/HG	TD 10P			
TEF-AP17	TS 40093I/HG	TD 15			

Cutting Condition E271-E273

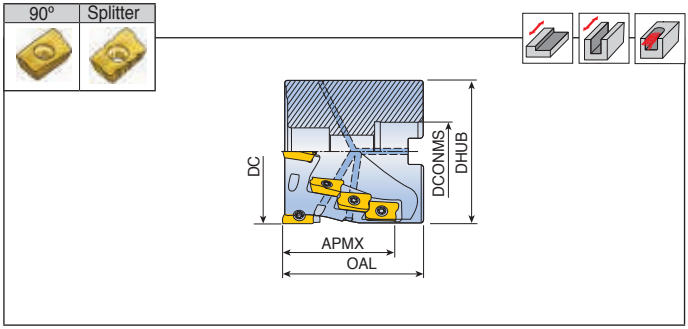
TES-AP12/17

CHASEMILL

Extended flute cutters



90°



Designation	No. of insert	Dimension (mm) DC	DCONMS	DHUB	OAL	APMX	Coolant hole	Kg	Mounting bolt	Insert
TES D50-45-22R-AP12	4	16	50	22	47	65	45	•	0.6	SH M10x40	APK(C)T 1204... E226
D63-56-27R-AP12	5	25	63	27	60	75	56	•	1.2	SH M10x50	
TES D50-44-22-AP17	2	6	50	22	48.2	60	44	•	0.5	SH M10x40	APK(C)T 1705 /1706... E227-E228
D63-44-27-AP17	3	9	63	27	60.8	63	44	•	0.9	SH M12x40	
D63-44-27-AP17-4F	4	12	63	27	60.8	63	44	•	0.9	SH M12x40	
D80-58-32-AP17	4	16	80	32	78.4	75	58	•	1.9	SH M16x50	
D100-88-40-AP17-4F	4	24	100	40	97.4	110	88	•	4.4	SH M20x80	
D100-88-40-AP17	5	30	100	40	97.4	110	88	•	4.8	SH M20x80	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
TES-AP12	TS 35A088I/HG	TD 10P	-		
TES-AP17	TS 40093I/HG	-	T-T15		

Cutting Condition E271-E273
Arbor Style E274-E275

TEF/TES

CHASEQUAD

Extended flute cutters



90°

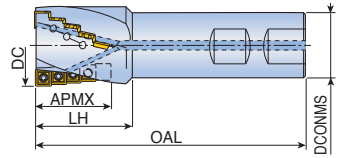


Fig.1

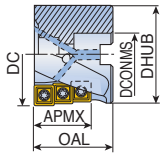


Fig.2

Designation		No. of insert	Dimension (mm)					Coolant hole	Fig.	Insert
			DC	DCONMS	OAL	LH	APMX			
TEF D32-23-W32-09	2	6	32	32	120	40	23.8	●	1	SPMG(T) 090408-EM
D40-38-W32-11	2	8	40	32	130	60	38.9	●	1	SPMG(T)110408-EM
D50-48-W40-11	3	15	50	40	140	70	48.4	●	1	E255
D50-48-W42-11	3	15	50	42	140	70	48.4	●	1	

Designation		No. of insert	Dimension (mm)					Coolant hole	Fig.	Mounting bolt	Insert
			DC	DCONMS	DHUB	OAL	APMX				
TES D50-29-22-11	3	9	50	22	47.3	52	29.0	●	2	SH M10x30	SPMG(T) 110408-EM
D63-35-27-11	4	16	63	27	60.5	55	35.0	●	2	SH M12x35	
D80-47-32-14	4	16	80	32	77.2	65	47.0	●	2	SH M16x40	SPMG(T)140508-EM
											E255

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
TEF (Ø32)	TS 35088I	TD 10	-		
TEF (Ø40-Ø50)	TS 40093I	TD 15	-		
TES (Ø50-Ø63)	TS 40093I	TD 15	-		
TES (Ø80)	TS 50A121I/HG	-	T-T20		

Cutting Condition E271-E273
Arbor Style E274-E275

TSM-W-TS16

TOPSLOT

Slotting cutters: End mills



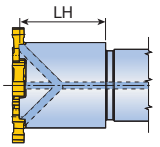


Fig.1

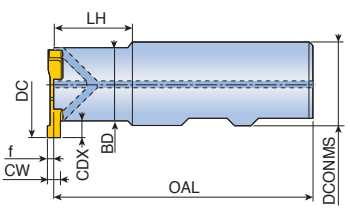


Fig.2

Designation		CW (mm)		Dimension (mm)					Coolant hole	Fig.	Kg	Insert
				DC	DCONMS	BD	OAL	LH				
TSM	D32-W25-3Z-TS16	1.20-4.0	3	32.2	25	21.7	110	52.3	●	2	0.34	TS16-1.2–4.0
	D32-W25-3Z-B-TS16	4.01-6.0	3	32.2	25	21.7	110	52.3	●	2	0.46	TS16-4.01–6.0
	D40-W25-4Z-TS16	1.20-4.0	4	40.0	25	29.7	110	30.0	●	1	0.44	TS16-1.2–4.0
	D40-W25-4Z-B-TS16	4.01-6.0	4	40.0	25	29.7	110	30.0	●	1	0.53	TS16-4.01–6.0
	D50-W32-6Z-TS16	1.20-4.0	6	50.0	32	39.7	110	30.0	●	1	0.75	TS16-1.2–4.0
												E263

• f, CDX: Please refer to insert data

Spare parts

Designation	Screw	Wrench	Wrench handle		
					
TSM D32-W25-3Z-TS16	TS 40097I-N3.5	BLD T15/S7	SW6-T		
TSM D32-W25-3Z-B-TS16	TS 40097I	BLD T15/S7	SW6-T		
TSM D40-W25-4Z-TS16	TS 40097I-N3.5	BLD T15/S7	SW6-T		
TSM D40-W25-4Z-B-TS16	TS 40097I	BLD T15/S7	SW6-T		
TSM D50-W32-6Z-TS16	TS 40097I-N3.5	BLD T15/S7	SW6-T		

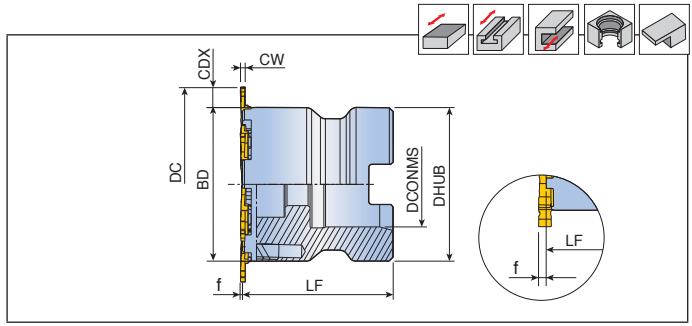
Cutting Condition
E271-E273

TSM-TS16

TOPSLOT

Slotting cutters: Flange type





Designation		CW (mm)		Dimension (mm)					Arbor style	Kg	Insert
				DC	DCONMS	DHUB	BD	LF			
TSM	D50-22R-6Z-TS16	1.20-4.0	6	50	22	39.7	39.7	39	A	0.24	TS16-1.20–4.0
	D50-22R-6Z-B-TS16	4.01-6.0	6	50	22	39.7	39.7	39	A	0.24	TS16-4.01–6.0
	D63-22R-8Z-TS16	1.20-4.0	8	63	22	40.0	52.7	39	A	0.40	TS16-1.20–4.0
	D63-22R-8Z-B-TS16	4.01-6.0	8	63	22	40.0	52.7	39	A	0.27	TS16-4.01–6.0
	D80-27R-11Z-TS16	1.20-4.0	11	80	27	69.7	69.7	49	B	0.40	TS16-1.20–4.0
	D80-27R-11Z-B-TS16	4.01-6.0	11	80	27	69.7	69.7	49	B	0.95	TS16-4.01–6.0
											E263

• f, CDX: Please refer to insert data

Spare parts

Designation	Screw	Wrench	Wrench handle		
TSM D50-22R-6Z-TS16	TS 40097I-N3.5	BLD T15/S7	SW6-T		
TSM D50-22R-6Z-B-TS16	TS 40097I	BLD T15/S7	SW6-T		
TSM D63-22R-8Z-TS16	TS 40097I-N3.5	BLD T15/S7	SW6-T		
TSM D63-22R-8Z-B-TS16	TS 40097I	BLD T15/S7	SW6-T		
TSM D80-27R-11Z-TS16	TS 40097I-N3.5	BLD T15/S7	SW6-T		
TSM D80-27R-11Z-B-TS16	TS 40097I	BLD T15/S7	SW6-T		

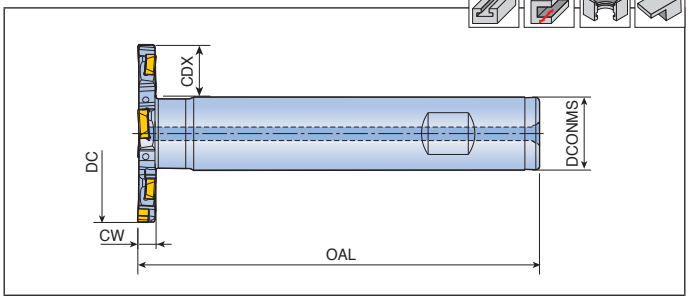
Cutting Condition E271-E273
Arbor Style E274-E275

TSM-W-SL

TOPSLOT

Slotting cutters: End mills





Designation		CW (mm)		Dimension (mm)				Coolant hole	Insert
				DC	DCONMS	OAL	CDX		
TSM	D25-03-W12-SL18	3	1+1	25	12	90	6.5	●	SLOT 018... E250
	D32-03-W16-SL18	3	2+2	32	16	90	8.0	●	
	D40-03-W16-SL18	3	3+3	40	16	105	12.0	●	
	D50-03-W20-SL18	3	4+4	50	20	110	15.0	●	
	D63-03-W20-SL18	3	5+5	63	20	110	21.5	●	
TSM	D25-04-W12-SL23	4	1+1	25	12	90	6.5	●	SLOT 023... E250
	D32-04-W16-SL23	4	2+2	32	16	90	8.0	●	
	D40-04-W16-SL23	4	3+3	40	16	105	12.0	●	
	D50-04-W20-SL23	4	4+4	50	20	110	15.0	●	
	D63-04-W20-SL23	4	5+5	63	20	110	21.5	●	
TSM	D25-05-W12-SL28	5	1+1	25	12	90	6.5	●	SLOT 028... E250
	D32-05-W16-SL28	5	2+2	32	16	90	8.0	●	
	D40-05-W16-SL28	5	3+3	40	16	105	12.0	●	
	D50-05-W20-SL28	5	4+4	50	20	110	15.0	●	
	D63-05-W20-SL28	5	5+5	63	20	110	21.5	●	
TSM	D25-06-W12-SL33	6	1+1	25	12	90	6.5	●	SLOT 033... E250
	D32-06-W16-SL33	6	2+2	32	16	90	8.0	●	
	D40-06-W16-SL33	6	3+3	40	16	105	12.0	●	
	D50-06-W20-SL33	6	4+4	50	20	110	15.0	●	
	D63-06-W20-SL33	6	5+5	63	20	110	21.5	●	

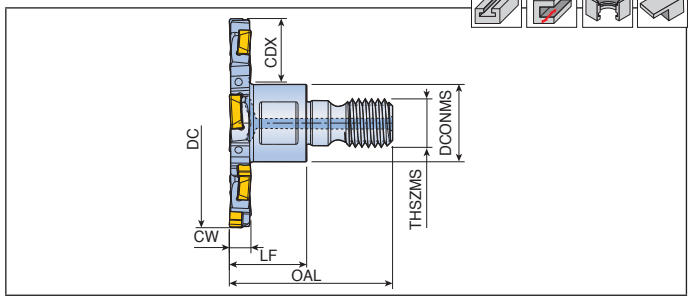
Cutting Condition E271-E273

TSM-M-SL

TOPSLOT

Slotting cutters: modular heads





Designation		CW (mm)		Dimension (mm)						Coolant hole	Insert
				DC	DCONMS	LF	OAL	THSZMS	CDX		
TSM	D25-03-M08-SL18	3	1+1	25	13	18	35.5	M08	6	•	SLOT 018... E250
	D32-03-M08-SL18	3	2+2	32	13	18	35.5	M08	9	•	
	D40-03-M08-SL18	3	3+3	40	13	18	35.5	M08	13	•	
	D50-03-M10-SL18	3	4+4	50	18	18	38	M10	15	•	
	D63-03-M10-SL18	3	5+5	63	18	18	38	M10	22	•	
TSM	D25-04-M08-SL23	4	1+1	25	13	18	35.5	M08	6	•	SLOT 023... E250
	D32-04-M08-SL23	4	2+2	32	13	18	35.5	M08	9	•	
	D40-04-M08-SL23	4	3+3	40	13	18	35.5	M08	13	•	
	D50-04-M10-SL23	4	4+4	50	18	18	38	M10	15	•	
	D63-04-M10-SL23	4	5+5	63	18	18	38	M10	22	•	
TSM	D25-05-M08-SL28	5	1+1	25	13	18	35.5	M08	6	•	SLOT 028... E250
	D32-05-M08-SL28	5	2+2	32	13	18	35.5	M08	9	•	
	D40-05-M08-SL28	5	3+3	40	13	18	35.5	M08	13	•	
	D50-05-M10-SL28	5	4+4	50	18	18	38	M10	15	•	
	D63-05-M10-SL28	5	5+5	63	18	18	38	M10	22	•	
TSM	D25-06-M08-SL33	6	1+1	25	13	18	35.5	M08	6	•	SLOT 033... E250
	D32-06-M08-SL33	6	2+2	32	13	18	35.5	M08	9	•	
	D40-06-M08-SL33	6	3+3	40	13	18	35.5	M08	13	•	
	D50-06-M10-SL33	6	4+4	50	18	18	38	M10	15	•	
	D63-06-M10-SL33	6	5+5	63	18	18	38	M10	22	•	

• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench			
TSM...-03...-SL18	TS 25B024I/HG	TD 7P	L-T7P		
TSM...-04...-SL23	TS 25B031I/HG	TD 7P	L-T7P		
TSM...-05...-SL28	TS 25B042I/HG	TD 7P	L-T7P		
TSM...-06...-SL33	TS 25B053I/HG	TD 7P	L-T7P		

Cutting Condition E271-E273

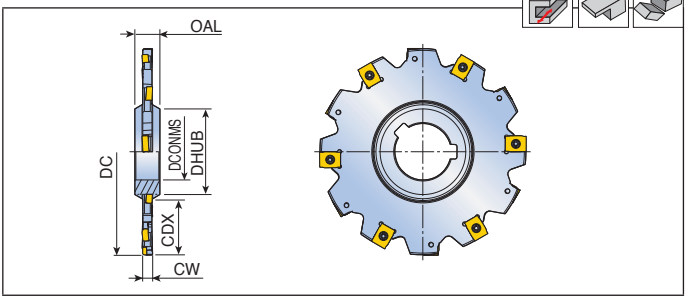
ADVANCE MACHINING TaeguTec Industry 4.0

TSM FD-N-Z

TOPSLOT

Slotting cutters: Fixed pocket disk type





Designation	CW (mm)		Dimension (mm)					Kg	Insert
			DC	DCONMS	DHUB	OAL	CDX		
TSM 063FD-03-22N-Z018	3	4+4	63	22	34	8	12.0	0.1	ZNHT 018... E267
080FD-03-22N-Z018	3	5+5	80	22	34	8	20.5	0.1	
100FD-03-27N-Z018	3	6+6	100	27	41	12	26.0	0.2	
125FD-03-40N-Z018	3	7+7	125	40	55	12	31.5	0.3	
160FD-03-40N-Z018	3	9+9	160	40	55	12	49.0	0.4	
TSM 063FD-04-22N-Z023	4	4+4	63	22	34	8	12.0	0.1	ZNHT 023... E267
080FD-04-22N-Z023	4	5+5	80	22	34	8	21.0	0.1	
100FD-04-27N-Z023	4	6+6	100	27	41	12	27.0	0.2	
125FD-04-40N-Z023	4	7+7	125	40	55	12	32.0	0.4	
160FD-04-40N-Z023	4	9+9	160	40	55	12	50.0	0.6	
TSM 063FD-05-22N-Z028	5	4+4	63	22	34	8	13.0	0.1	ZNHT 028... E267
080FD-05-22N-Z028	5	5+5	80	22	34	8	21.0	0.2	
100FD-05-27N-Z028	5	6+6	100	27	41	12	27.0	0.3	
125FD-05-40N-Z028	5	7+7	125	40	55	12	33.0	0.4	
160FD-05-40N-Z028	5	9+9	160	40	55	12	50.0	0.7	
TSM 063FD-06-22N-Z033	6	4+4	63	22	34	8	13.0	0.1	ZNHT 033... E267
080FD-06-22N-Z033	6	5+5	80	22	34	8	21.5	0.2	
100FD-06-27N-Z033	6	6+6	100	27	41	12	27.0	0.3	
125FD-06-40N-Z033	6	7+7	125	40	55	12	33.0	0.5	
160FD-06-40N-Z033	6	9+9	160	40	55	12	50.0	0.8	
200FD-06-50N-Z033	6	10+10	200	50	69	12	63.0	1.2	
250FD-06-50N-Z033	6	12+12	250	50	69	12	88.0	2.0	
TSM 080FD-07-22N-Z038	7	4+4	80	22	34	12	20.0	0.2	ZNHT 038... E267
100FD-07-27N-Z038	7	5+5	100	27	41	12	26.5	0.3	
125FD-07-40N-Z038	7	6+6	125	40	55	12	32.0	0.5	
160FD-07-40N-Z038	7	8+8	160	40	55	12	49.5	0.8	
200FD-07-50N-Z038	7	9+9	200	50	69	12	62.5	1.3	
250FD-07-50N-Z038	7	12+12	250	50	69	12	87.5	1.9	

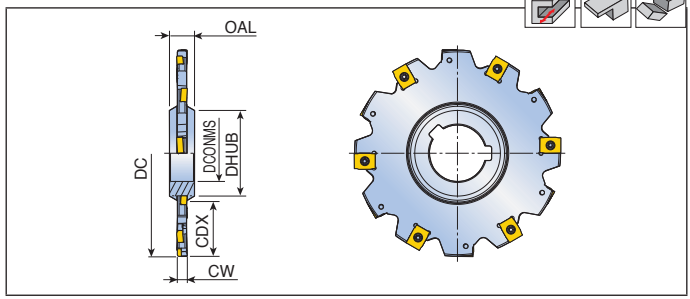
Cutting Condition E271-E273

TSM FD-N-Z

TOPSLOT

Slotting cutters: Fixed pocket disk type





Designation		CW (mm)		Dimension (mm)					Kg	Insert
				DC	DCONMS	DHUB	OAL	CDX		
TSM	080FD-08-22N-Z043	8	4+4	80	22	34	12	20.5	0.2	ZNHT 043... E267
	100FD-08-27N-Z043	8	5+5	100	27	41	12	27.0	0.3	
	125FD-08-40N-Z043	8	6+6	125	40	55	12	32.5	0.5	
	160FD-08-40N-Z043	8	8+8	160	40	55	12	50.0	0.9	
	200FD-08-50N-Z043	8	9+9	200	50	69	12	63.0	1.4	
	250FD-08-50N-Z043	8	12+12	250	50	69	12	88.0	2.3	
TSM	100FD-09-27N-Z048	9	5+5	100	27	41	12	27.5	0.4	ZNHT 048... E267
	125FD-09-40N-Z048	9	6+6	125	40	55	12	33.0	0.6	
	160FD-09-40N-Z048	9	8+8	160	40	55	12	50.5	1.0	
	200FD-09-50N-Z048	9	9+9	200	50	69	12	63.5	1.6	
	250FD-09-50N-Z048	9	12+12	250	50	69	12	88.5	2.6	
TSM	100FD-10-27N-Z053	10	5+5	100	27	41	12	28.0	0.4	ZNHT 053... E267
	125FD-10-40N-Z053	10	6+6	125	40	55	12	33.5	0.6	
	160FD-10-40N-Z053	10	8+8	160	40	55	12	51.0	1.3	
	200FD-10-50N-Z053	10	9+9	200	50	69	12	64.0	2.0	
	250FD-10-50N-Z053	10	12+12	250	50	69	12	89.0	3.2	

• Arbor: SCA

Spare parts

Designation	Screw	Wrench		Designation	Screw	Wrench	
TSM-Z018	TS 25B024I/HG	TD 7P	L-T7P	**TSM-Z038**	TS 40K0535I	T-T15	L-T15
TSM-Z023	TS 25B031I/HG	TD 7P	L-T7P	**TSM-Z043**	TS 40K065I	T-T15	L-T15
TSM-Z028	TS 25B042I/HG	TD 7P	L-T7P	**TSM-Z048**	TS 40K075I	T-T15	L-T15
TSM-Z033	TS 25B053I/HG	TD 7P	L-T7P	**TSM-Z053**	TS 40K085I	T-T15	L-T15

Cutting Condition E271-E273

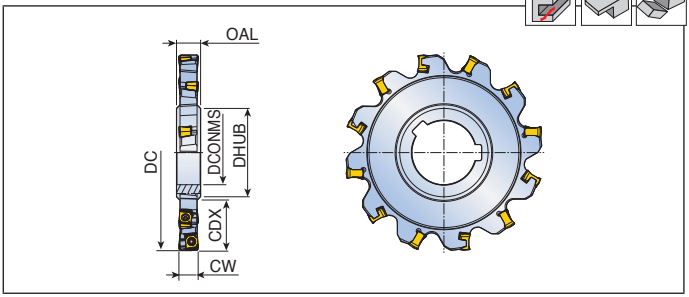
ADVANCE MACHINING Industry 4.0 TaeguTec

TSM FD-N-ZN08/11

TOPSLOT

Slotting cutters: Fixed pocket disk type





Designation	CW (mm)		Dimension (mm)					Kg	Insert
			DC	DCONMS	DHUB	OAL	CDX		
TSM 080FD-10-27N-ZN08	10.0	4+4	80	27	41	15	15.5	0.3	ZNHU 080... E268
100FD-10-27N-ZN08	10.0	5+5	100	27	41	15	25.5	0.5	
125FD-10-40N-ZN08	10.0	6+6	125	40	55	15	31.0	0.7	
080FD-12-27N-ZN08	12.0	4+4	80	27	41	15	16.5	0.3	
100FD-12-27N-ZN08	12.0	5+5	100	27	41	15	26.5	0.5	
125FD-12-40N-ZN08	12.0	6+6	125	40	55	15	32.0	0.8	
TSM 125FD-14-40N-ZN11	14.0	6+6	125	40	55	15	34.5	0.9	ZNHU 110... E268
125FD-17-40N-ZN11	17.0	6+6	125	40	55	18	34.5	1.1	
125FD-20-40N-ZN11	20.0	6+6	125	40	55	20	34.5	1.3	

• Arbor: SCA

Spare parts

Designation	Screw	Wrench			
TSM...FD...-ZN08	TS 30085I/HG	TD 9	**-**		
TSM...FD...-ZN11	TS 40120I/HG	-	T-T15		

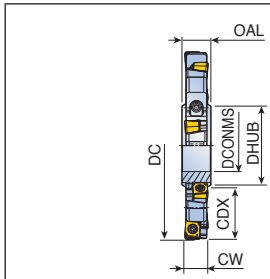
Cutting Condition E271-E273

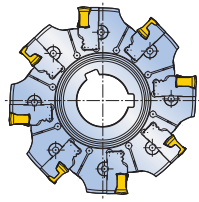
TSM FD-S/W-ZN08

TOPSLOT

Slotting cutters: Adjustable disk type







Designation		CW (mm)		Dimension (mm)					Kg	Insert
				DC	DCONMS	DHUB	OAL	CDX		
TSM	**100FD-S-27N-ZN08**	10-12	4+4	100	27	41	15	26.5	0.4	ZNHU 080...
	125FD-S-40N-ZN08	10-12	5+5	125	40	55	15	31.5	0.7	E268
	160FD-S-40N-ZN08	10-12	6+6	160	40	55	15	48.5	1.1	
	200FD-S-50N-ZN08	10-12	8+8	200	50	69	15	61.5	1.8	
	250FD-S-50N-ZN08	10-12	9+9	250	50	69	15	87.5	2.8	
	100FD-W-27N-ZN08	12-14	4+4	100	27	41	15	27.0	0.5	
	125FD-W-40N-ZN08	12-14	5+5	125	40	55	15	31.5	0.8	
	160FD-W-40N-ZN08	12-14	6+6	160	40	55	15	49.5	1.3	
	200FD-W-50N-ZN08	12-14	8+8	200	50	69	15	62.5	2.1	
	250FD-W-50N-ZN08	12-14	9+9	250	50	69	15	87.5	3.4	

• Width of cut is set at the smallest unless a specific width is requested • Arbor: SCA

Spare parts

Designation	Right cartridge	Left cartridge	Wedge	Adjust screw	Insert screw
					
TSM...FD-S/W...-ZN08	TCT-SR-ZN08 TCT-WR-ZN08	TCT-SL-ZN08 TCT-WL-ZN08	WFZ 5	SA M8-6.0	TS 30085I/HG
	Wedge screw	Wrench	L-Wrench	Wedge Wrench	
					
	WS 5	TD 9	L-W 3	F-W 2.5	

Cutting Condition E271-E273

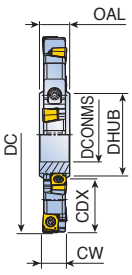
Technical Data E281-E283

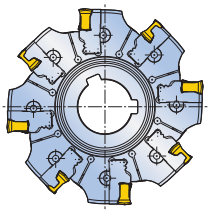
TSM FD-S/W-ZN11

TOPSLOT

Slotting cutters: Adjustable disk type







Designation	CW (mm)		Dimension (mm) DC	DCONMS	DHUB	OAL	CDX	Kg	Insert
TSM **100FD-S-27N-ZN11**	14-17	3+3	100	27	41	18	28.0	0.6	ZNHU 110...
125FD-S-40N-ZN11	14-17	4+4	125	40	55	18	31.0	1.0	E268
160FD-S-40N-ZN11	14-17	6+6	160	40	55	18	48.5	1.6	
200FD-S-50N-ZN11	14-17	7+7	200	50	69	18	61.5	2.6	
250FD-S-50N-ZN11	14-17	9+9	250	50	69	18	86.5	4.2	
100FD-W-27N-ZN11	17-20	3+3	100	27	41	22	28.0	0.8	
125FD-W-40N-ZN11	17-20	4+4	125	40	55	22	31.0	1.2	
160FD-W-40N-ZN11	17-20	6+6	160	40	55	22	48.5	2.0	
200FD-W-50N-ZN11	17-20	7+7	200	50	69	22	61.5	3.2	
250FD-W-50N-ZN11	17-20	9+9	250	50	69	22	86.5	5.2	
315FD-W-60N-ZN11	17-20	12+12	315	60	85	22	110.0	8.5	

• Width of cut is set at the smallest unless a specific width is requested • Arbor: SCA

Spare parts

Designation	Right cartridge	Left cartridge	Wedge	Adjust screw	Insert screw
					
TSM...FD-S/W...-ZN11	TCT-SR-ZN11 TCT-WR-ZN11	TCT-SL-ZN11 TCT-WL-ZN11	WFZ 6	SA M8-9.0	TS 40120I/HG
	Wedge screw	Wrench	L-Wrench	Wedge Wrench	
					
	WS 6	T-T15	L-W 4	T-W 3	

Cutting Condition E271-E273
Technical Data E281-E283

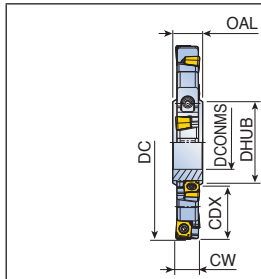
TaeguTec

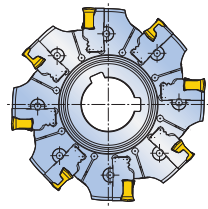
TSM FD-S/W-ZN14

TOPSLOT

Slotting cutters: Adjustable disk type







Designation		CW (mm)		Dimension (mm)					Kg	Insert
				DC	DCONMS	DHUB	OAL	CDX		
TSM	125FD-S-40N-ZN14	20-23	3+3	125	40	55	24.5	32.0	1.4	ZNHU 140... E268
	160FD-S-40N-ZN14	20-23	5+5	160	40	55	24.5	49.0	2.4	
	200FD-S-50N-ZN14	20-23	6+6	200	50	69	24.5	62.5	3.9	
	250FD-S-50N-ZN14	20-23	8+8	250	50	69	24.5	87.0	6.3	
	315FD-S-60N-ZN14	20-23	10+10	315	60	85	24.5	111.5	10.2	
	125FD-W-40N-ZN14	23-26	3+3	125	40	55	27.5	32.0	1.6	
	160FD-W-40N-ZN14	23-26	5+5	160	40	55	27.5	49.0	2.7	
	200FD-W-50N-ZN14	23-26	6+6	200	50	69	27.5	62.5	4.3	
	250FD-W-50N-ZN14	23-26	8+8	250	50	69	27.5	87.0	7.1	
	315FD-W-60N-ZN14	23-26	10+10	315	60	85	27.5	111.5	11.6	

• Width of cut is set at the smallest unless a specific width is requested • Arbor: SCA

Spare parts

Designation	Right cartridge	Left cartridge	Wedge	Adjust screw	Insert screw
					
TSM...FD-S/W...-ZN14	TCT-SR-ZN14	TCT-SL-ZN14	WFZ 6	SA M8-9.0	TS 40120I/HG
	Wedge screw	Wrench	L-Wrench	Wedge Wrench	
					
	WS 6	T-T15	L-W 4	T-W 3	

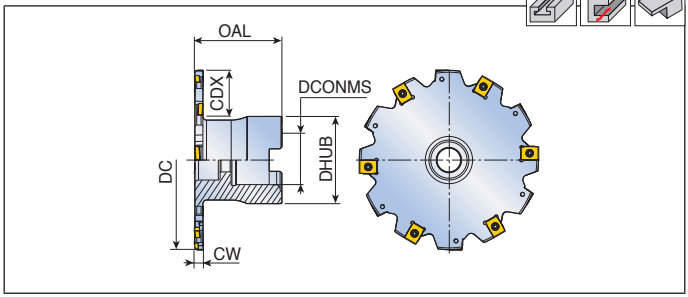
Cutting Condition E271-E273
Technical Data E281-E283

TSM FF-Z

TOPSLOT

Slotting cutters: Fixed pocket flange type





Designation	CW (mm)		Dimension (mm)					Arbor style	Kg	Mounting bolt	Insert
			DC	DCONMS	DHUB	OAL	CDX				
TSM 080FF-03-22R-Z018	3	5+5	80	22	40	50	20.0	A	0.4	SH M10x35	ZNHT 018...
100FF-03-27R-Z018	3	6+6	100	27	48	50	26.0	A	0.6	SH M12x35	
080FF-04-22R-Z023	4	5+5	80	22	40	50	20.0	A	0.4	SH M10x35	ZNHT 023...
100FF-04-27R-Z023	4	6+6	100	27	48	50	26.0	A	0.6	SH M12x35	
080FF-05-22R-Z028	5	5+5	80	22	40	50	20.0	A	0.5	SH M10x35	ZNHT 028...
100FF-05-27R-Z028	5	6+6	100	27	48	50	26.0	A	0.7	SH M12x35	
080FF-06-22R-Z033	6	5+5	80	22	40	50	20.0	A	0.5	SH M10x35	ZNHT 033...
100FF-06-27R-Z033	6	6+6	100	27	48	50	26.0	A	0.7	SH M12x35	E267
125FF-06-40R-Z033	6	7+7	125	40	70	50	25.0	B	1.1	-	
160FF-06-40R-Z033	6	9+9	160	40	70	50	43.0	B	1.4	-	
080FF-07-22R-Z038	7	4+4	80	22	40	50	20.0	A	0.5	SH M10x40	ZNHT 038...
100FF-07-27R-Z038	7	5+5	100	27	48	50	25.5	A	0.7	SH M12x35	E267
125FF-07-40R-Z038	7	6+6	125	40	70	50	24.5	B	1.1	-	
160FF-07-40R-Z038	7	8+8	160	40	70	50	42.0	B	1.4	-	
080FF-08-22R-Z043	8	4+4	80	22	40	50	20.0	A	0.5	SH M10x35	ZNHT 043...
100FF-08-27R-Z043	8	5+5	100	27	48	50	25.5	A	0.8	SH M12x35	E267
125FF-08-40R-Z043	8	6+6	125	40	70	50	24.5	B	1.2	-	
160FF-08-40R-Z043	8	8+8	160	40	70	50	42.0	B	1.5	-	
100FF-09-27R-Z048	9	5+5	100	27	48	50	26.0	A	0.7	SH M12x35	ZNHT 048...
125FF-09-40R-Z048	9	6+6	125	40	70	50	24.5	B	1.2	-	E267
160FF-09-40R-Z048	9	8+8	160	40	70	50	42.0	B	1.6	-	
100FF-10-27R-Z053	10	5+5	100	27	48	50	26.0	A	0.8	SH M12x35	ZNHT 053..
125FF-10-40R-Z053	10	6+6	125	40	70	50	24.5	B	1.4	-	E267
160FF-10-40R-Z053	10	8+8	160	40	70	50	42.0	B	1.7	-	

Spare parts

Designation	Screw	Wrench		Designation	Screw	Wrench	
TSM-Z018	TS 25B024I/HG	TD 7P	L-T7P	TSM-Z038	TS 40K0535I	T-T15	L-T15
TSM-Z023	TS 25B031I/HG	TD 7P	L-T7P	TSM-Z043	TS 40K065I	T-T15	L-T15
TSM-Z028	TS 25B042I/HG	TD 7P	L-T7P	TSM-Z048	TS 40K075I	T-T15	L-T15
TSM-Z033	TS 25B053I/HG	TD 7P	L-T7P	TSM-Z053	TS 40K085I	T-T15	L-T15

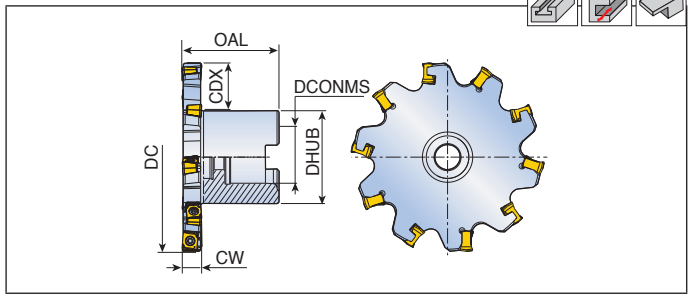
Cutting Condition E271-E273
Arbor Style E274-E275

TSM FF-ZN08/11

TOPSLOT

Slotting cutters: Fixed pocket flange type





Designation	CW (mm)		Dimension (mm) DC	DCONMS	DHUB	OAL	CDX	Arbor style	Kg	Mounting bolt	Insert
TSM 063FF-10-22R-ZN08	10.0	3+3	63	22	40	50	15	A	0.4	SH M10x35	ZNHU 080...
080FF-10-22R-ZN08	10.0	4+4	80	22	40	50	24	A	0.5	SH M10x35	E268
100FF-10-27R-ZN08	10.0	5+5	100	27	48	50	26	A	0.8	SH M12x35	
125FF-10-32R-ZN08	10.0	6+6	125	32	58	50	34	B	1.1	-	
063FF-12-22R-ZN08	12.0	3+3	63	22	40	50	15	A	0.4	SH M10x35	
080FF-12-22R-ZN08	12.0	4+4	80	22	40	50	24	A	0.5	SH M10x35	
100FF-12-27R-ZN08	12.0	5+5	100	27	48	50	26	A	0.9	SH M12x35	
125FF-12-32R-ZN08	12.0	6+6	125	32	58	50	34	B	1.2	-	
TSM 063FF-14-22R-ZN11	14.0	3+3	63	22	40	50	15	A	0.4	SH M10x35	ZNHU 110...
080FF-14-22R-ZN11	14.0	4+4	80	22	40	50	24	A	0.5	SH M10x35	E268
100FF-14-27R-ZN11	14.0	5+5	100	27	48	50	26	A	1.0	SH M12x35	
125FF-14-32R-ZN11	14.0	6+6	125	32	58	50	34	B	1.3	-	
160FF-14-40R-ZN11	14.0	6+6	160	40	70	50	43	B	2.5	-	
080FF-17-22R-ZN11	17.0	4+4	80	22	40	50	24	A	0.6	SH M10x35	
100FF-17-27R-ZN11	17.0	5+5	100	27	48	50	26	A	1.0	SH M12x35	
125FF-17-32R-ZN11	17.0	6+6	125	32	58	50	34	B	1.5	-	
080FF-20-22R-ZN11	20.0	4+4	80	22	40	50	24	A	0.7	SH M10x35	
100FF-20-27R-ZN11	20.0	5+5	100	27	48	50	26	A	1.1	SH M12x35	
125FF-20-32R-ZN11	20.0	6+6	125	32	58	50	34	B	1.6	-	

Spare parts

Designation	Screw	Wrench			
TSM...FF...-ZN08	TS 30085I/HG	TD 9	-		
TSM...FF...-ZN11	TS 40120I/HG	-	T-T15		

Cutting Condition E271-E273

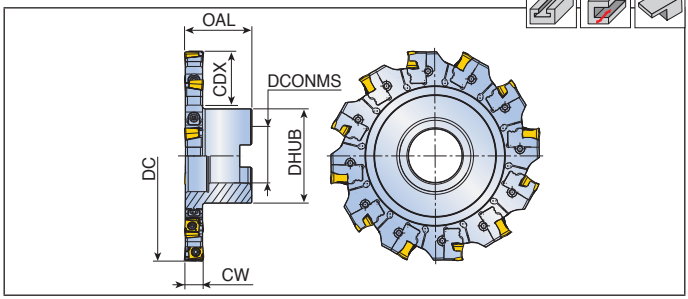
Arbor Style E274-E275

TSM FF-S/W-ZN08

TOPSLOT

Slotting cutters: Adjustable flange type





Designation	CW (mm)		Dimension (mm) DC	DCONMS	DHUB	OAL	CDX	Arbor style	Kg	Mounting bolt	Insert
TSM **100FF-S-27R-ZN08**	10-12	4+4	100	27	48	50	25	A	0.8	SH M12x35	ZNHU 080...
125FF-S-32R-ZN08	10-12	5+5	125	32	58	50	31.5	B	1.1	-	E268
160FF-S-40R-ZN08	10-12	6+6	160	40	70	50	43	B	1.8	-	
200FF-S-40R-ZN08	10-12	8+8	200	40	90	50	53	C	2.9	-	
100FF-W-27R-ZN08	12-14	4+4	100	27	48	50	25	A	0.9	SH M12x35	
125FF-W-32R-ZN08	12-14	5+5	125	32	58	50	31.5	B	1.2	-	
160FF-W-40R-ZN08	12-14	6+6	160	40	70	50	43	B	2.0	-	
200FF-W-40R-ZN08	12-14	8+8	200	40	90	50	53	C	3.2	-	

• Width of cut is set at the smallest unless a specific width is requested

Spare parts

Designation	Right cartridge	Left cartridge	Wedge	Adjust screw	Insert screw
					
TSM...FF-S/W...-ZN08	TCT-SR-ZN08 TCT-WR-ZN08	TCT-SL-ZN08 TCT-WL-ZN08	WFZ 5	SA M8-6.0	TS 30085I/HG
	Wedge screw	Wrench	L-Wrench	Wedge Wrench	
					
	WS 5	TD 9	L-W 3	F-W 2.5	

Cutting Condition E271-E273
Arbor Style E274-E275
Technical Data E281-E283

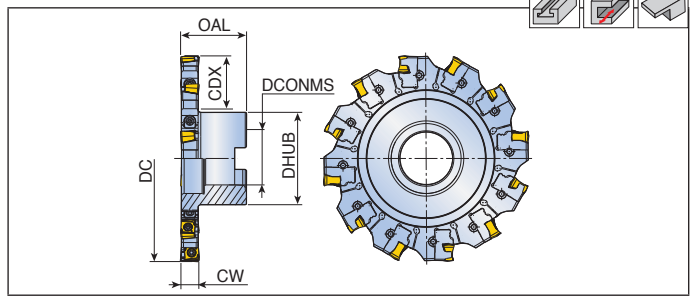
TaeguTec Member IMC Group

TSM FF-S/W-ZN11

TOPSLOT

Slotting cutters: Adjustable flange type





Designation	CW (mm)		Dimension (mm)					Arbor style	Kg	Mounting bolt	Insert
			DC	DCONMS	DHUB	OAL	CDX				
TSM 100FF-S-27R-ZN11	14-17	3+3	100	27	48	50	25.0	A	0.9	SH M12x35	ZNHU 110...
125FF-S-32R-ZN11	14-17	4+4	125	32	58	50	31.5	B	1.3	-	E268
160FF-S-40R-ZN11	14-17	6+6	160	40	70	50	43.0	B	2.2	-	
200FF-S-40R-ZN11	14-17	7+7	200	40	90	50	53.0	C	3.9	-	
250FF-S-60R-ZN11	14-17	9+9	250	60	130	50	55.0	C	6.2	-	
315FF-S-60R-ZN11	14-17	12+12	315	60	130	50	90.0	C	8.9	-	
100FF-W-27R-ZN11	17-20	3+3	100	27	48	50	25.0	A	1.0	SH M12x35	
125FF-W-32R-ZN11	17-20	4+4	125	32	58	50	31.5	B	1.5	-	
160FF-W-40R-ZN11	17-20	6+6	160	40	70	50	43.0	B	2.2	-	
200FF-W-40R-ZN11	17-20	7+7	200	40	90	50	53.0	C	4.1	-	
250FF-W-60R-ZN11	17-20	9+9	250	60	130	50	55.0	C	6.9	-	
315FF-W-60R-ZN11	17-20	12+12	315	60	130	50	90.0	C	10.2	-	

• Width of cut is set at the smallest unless a specific width is requested

Spare parts

Designation	Right cartridge	Left cartridge	Wedge	Adjust screw	Insert screw
					
TSM...FD-S/W...-ZN11	TCT-SR-ZN11 TCT-WR-ZN11	TCT-SL-ZN11 TCT-WL-ZN11	WFZ 6	SA M8-9.0	TS 40120I/HG
	Wedge screw	Wrench	L-Wrench	Wedge Wrench	
					
	WS 6	T-T15	L-W 4	T-W 3	

Cutting Condition E271-E273
Arbor Style E274-E275
Technical Data E281-E283

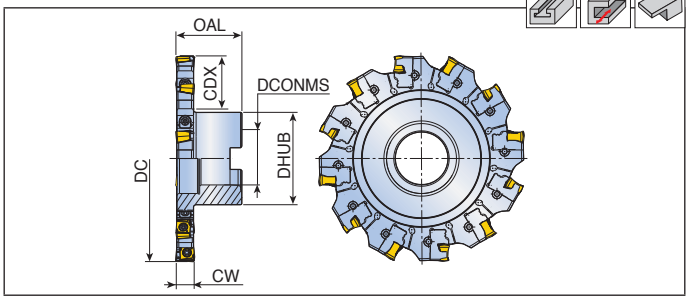
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TaeguTec Industry 4.0

TSM FF-S/W-ZN14

TOPSLOT

Slotting cutters: Adjustable flange type





Designation	CW (mm)		Dimension (mm)					Arbor style	Kg	Insert
			DC	DCONMS	DHUB	OAL	CDX			
TSM 125FF-S-32R-ZN14	20-23	3+3	125	32	58	50	32.5	B	2.6	ZNHU 140...
160FF-S-40R-ZN14	20-23	5+5	160	40	70	50	43.0	B	2.8	E268
200FF-S-40R-ZN14	20-23	6+6	200	40	90	50	53.0	C	4.6	
250FF-S-60R-ZN14	20-23	8+8	250	60	130	50	58.0	C	7.2	
315FF-S-60R-ZN14	20-23	10+10	315	60	130	50	90.0	C	11.3	
125FF-W-32R-ZN14	23-26	3+3	125	32	58	50	32.5	B	1.8	
160FF-W-40R-ZN14	23-26	5+5	160	40	70	50	43.0	B	3.0	
200FF-W-40R-ZN14	23-26	6+6	200	40	90	50	53.0	C	5.0	
250FF-W-60R-ZN14	23-26	8+8	250	60	130	50	58.0	C	7.5	
315FF-W-60R-ZN14	23-26	10+10	315	60	130	50	90.0	C	12.2	

• Width of cut is set at the smallest unless a specific width is requested

Spare parts

Designation	Right cartridge	Left cartridge	Wedge	Adjust screw	Insert screw
					
TSM...FD-S/W...-ZN14	TCT-SR-ZN14	TCT-SL-ZN14	WFZ 6	SA M8-9.0	TS 40120I/HG
	Wedge screw	Wrench	L-Wrench	Wedge Wrench	
					
	WS 6	T-T15	L-W 4	T-W 3	

Cutting Condition E271-E273
Arbor Style E274-E275
Technical Data E281-E283

TaeguTec Member IMC Group

TSC

Slotting cutters



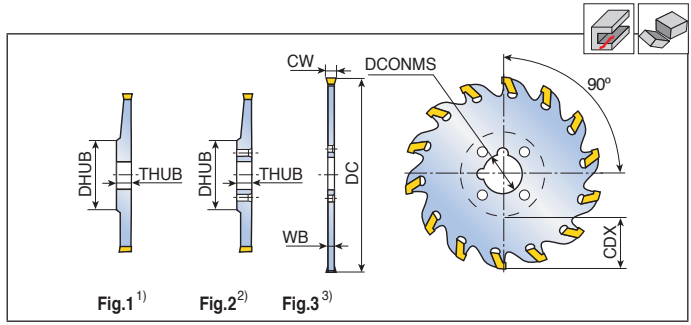


Fig.1 [1] Fig.2 [2] Fig.3 [3]

Designation		CW (mm)		Dimension (mm)						Fig.	Insert seat size	Insert
				DC	DCONMS	DHUB	WB	THUB	CDX			
TSC	75 1.6 22A	1.6	8	75	22.0	39	1.24	2.4	17	1	1	TIMC TIMJ TIPV E259-E260
	100 1.6 22A	1.6	10	100	22.0	39	1.24	2.4	30	1	1	
	125 1.6 27A	1.6	12	125	27.0	64	1.24	2.4	30	1	1	
	75 2 22A	2.0-2.3	8	75	22.0	39	1.6	2.4	17	1	2	
	100 2 22A	2.0-2.3	10	100	22.0	39	1.6	2.4	30	1	2	
	125 2 27A	2.0-2.3	12	125	27.0	64	1.6	2.4	30	1	2	
	100 2.4 22K	2.3-2.5	10	100	22.0	46	1.9	2.4	26	2	2	
	125 2.4 32K	2.3-2.5	12	125	32.0	55	1.9	2.4	34	2	2	
	160 2.4 32K	2.3-2.5	16	160	32.0	55	1.9	2.4	52	2	2	
	100 3 22K	2.8-3.58	6	100	22.0	-	2.4	-	26	3	4	
	125 3 32K	2.8-3.53	8	125	32.0	-	2.4	-	34	3	4	
	160 3 40K	2.8-3.53	10	160	40.0	-	2.4	-	39	3	4	
	100 4 22K	3.54-4.52	6	100	22.0	-	3.2	-	27	3	4	
	125 4 32K	3.54-4.52	8	125	32.0	-	3.2	-	34	3	4	
	160 4 40K	3.54-4.52	10	160	40.0	-	3.2	-	39	3	4	

• [1] Arbor type, [2] Drive shank, [3] Drive flange+Drive shank

Spare parts

Designation	Drive flange set	Drive shank			
TSC-2.4-22K	-	TW32-40			
TSC-2.4-32K	-	T32-55			
TSC-22K	TR22-46	TW32-40			
TSC-32K	TR32-55	T32-55			
TSC-40K	TR40-80	T40-80			

Cutting Condition E271-E273 Technical Data E284-E285

• Extractor(ESG 0.5 or ESG 1) supplied with each cutter
• Flange set and shank should be ordered separately

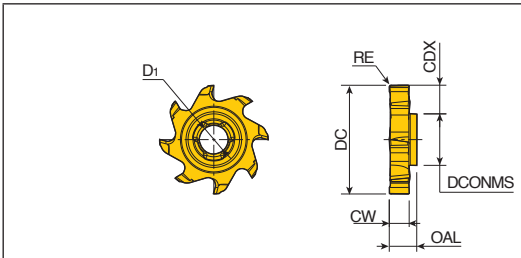
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TR-S

MAXISLOT

Interchangeable solid carbide slot milling heads





Designation	Feed (mm/tooth)	Dimension (mm)								Grade
		DC	CW	CDX	NOF	RE	D1	DCONMS	OAL	TT5525
TR13-S-24.7-3.0R0.4	0.02-0.15	24.7	3	5.5	6	0.4	7.5	13	8	●
24.7-4.0R0.4	0.02-0.15	24.7	4	5.5	6	0.4	7.5	13	8	●
24.7-5.0R0.4	0.02-0.15	24.7	5	5.5	6	0.4	7.5	13	8	●
24.7-6.0R0.4	0.02-0.15	24.7	6	5.5	6	0.4	7.5	13	8	●
24.7-7.0R0.4	0.02-0.15	24.7	7	5.5	6	0.4	7.5	13	8	●
24.7-8.0R0.4	0.02-0.15	24.7	8	5.5	6	0.4	7.5	13	8	●
TR15-S-31.7-3.0R0.4	0.022-0.18	31.7	3	8	8	0.4	8.4	15	8	●
31.7-4.0R0.4	0.022-0.18	31.7	4	8	8	0.4	8.4	15	8	●
31.7-5.0R0.4	0.022-0.18	31.7	5	8	8	0.4	8.4	15	8	●
31.7-6.0R0.4	0.022-0.18	31.7	6	8	8	0.4	8.4	15	8	●
31.7-7.0R0.4	0.022-0.18	31.7	7	8	8	0.4	8.4	15	8	●
31.7-8.0R0.4	0.022-0.18	31.7	8	8	8	0.4	8.4	15	8	●
TR17-S-39.7-4.0R0.4	0.025-0.20	39.7	4	11	10	0.4	9.8	17	10	●
39.7-5.0R0.4	0.025-0.20	39.7	5	11	10	0.4	9.8	17	10	●
39.7-6.0R0.4	0.025-0.20	39.7	6	11	10	0.4	9.8	17	10	●
39.7-7.0R0.4	0.025-0.20	39.7	7	11	10	0.4	9.8	17	10	●
39.7-8.0R0.4	0.025-0.20	39.7	8	11	10	0.4	9.8	17	10	●
39.7-9.0R0.4	0.025-0.20	39.7	9	11	10	0.4	9.8	17	10	●
39.7-10.0R0.4	0.025-0.20	39.7	10	11	10	0.4	9.8	17	10	●

Cutting Condition E271-E273

E208

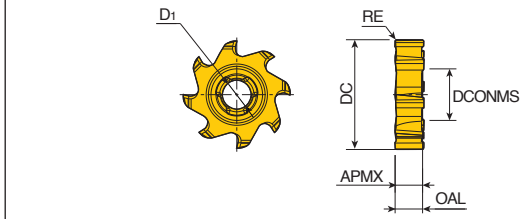
• NOF: Number of flutes

●: Standard items

TaeguTec

Interchangeable solid carbide facing heads





Designation	Feed (mm/tooth)	Dimension (mm)							Grade
		DC	APMX	NOF	RE	D1	DCONMS	OAL	TT5525
TR13-F-25-8.0-R0.4	0.04-0.15	24.25	8	6	0.4	7.5	13	8	●
15-F-32-8.0-R0.4	0.04-0.15	31.25	8	8	0.4	8.4	15	8	●
17-F-40-10.0-R0.4	0.04-0.15	39.25	10	10	0.4	9.8	17	10	●

Cutting Condition E271-E273

E209

• NOF: Number of flutes

●: Standard items

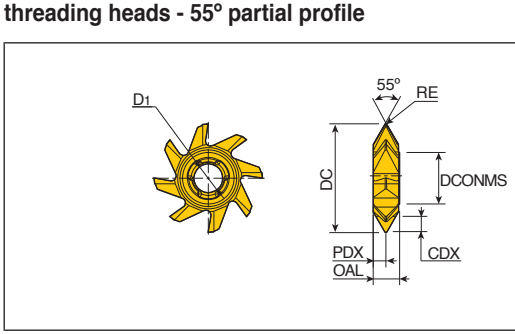
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TR-T-W55

MAXISLOT

Interchangeable solid carbide threading heads - 55° partial profile





Designation	TPI	Dimension (mm)									Grade
		DC	DMIN	PDX	RE	D1	CDX	OAL	ZEFP	DCONMS	TT5525
TR13-T-24.7-W55-3T	5-3	24.7	36	2.2	0.5	7.5	3.5	7.7	6	13	●
15-T-31.7-W55-4T	6-4	31.7	46	3.7	0.5	8.4	4.7	7.7	8	15	●
17-T-39.7-W55-3T	4-3	39.7	57	4.5	0.8	9.8	6.2	9.5	10	17	●

• TPI: Threads per inch
• ZEFP: Peripheral effective cutting edge count

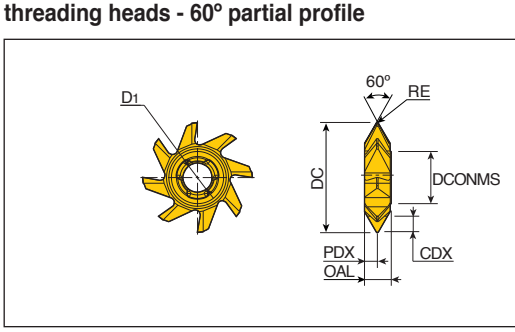
●: Standard items

TR-T-M60

MAXISLOT

Interchangeable solid carbide threading heads - 60° partial profile





Designation	TP (mm)	TPI	Dimension (mm)									Grade
			DC	DMIN	PDX	RE	D1	CDX	OAL	ZEFP	DCONMS	TT5525
TR13-T-24.7-M60-5P	3-5	5-3	24.7	36	2.2	0.2	7.5	3.5	7.7	6	13	●
15-T-31.7-M60-6P	4-6	6-4	31.7	46	3.7	0.3	8.4	4.7	7.7	8	15	●
17-T-39.7-M60-8P	6-8	4-3	39.7	57	4.5	0.4	9.8	6.2	9.5	10	17	●

Cutting Condition E271-E273

E208

• TP: Threads pitch, TPI: Threads per inch
• ZEFP: Peripheral effective cutting edge count

●: Standard items

TaeguTec

Slotting & threading holders



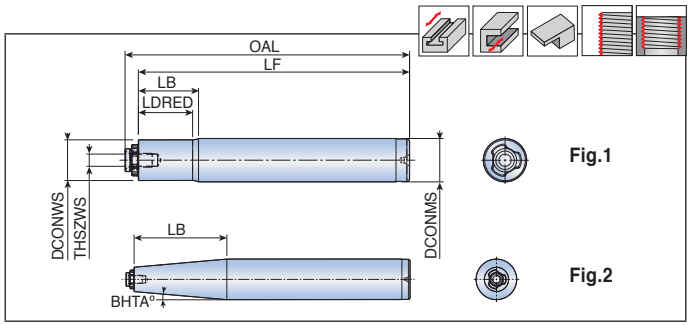


Fig.1

Fig.2

Designation	Dimension (mm)								Coolant hole	Fig.	Carbide head
	DCONMS	DCONWS	LB	LF	OAL	THSZWS	LDRED	BHTA°			
TR13-16-L100	16	13	16.6	100	104.35	M4x0.5	13.0	-	x	1	TR-S.. TR-T.. E205, E207
15-16-L100	16	15	18.2	100	104.90	M5x0.5	16.0	-	x	1	
15-16-L130	16	15	18.2	130	134.90	M5x0.5	16.0	-	x	1	
17-20-L140	20	17	23.8	140	146.00	M6x0.5	20.2	-	x	1	
15-25-TC170	25	15	57.2	170	174.90	M5x0.5	-	5	x	2	

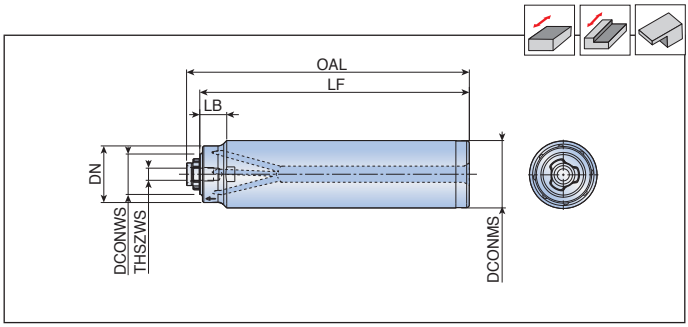
Spare parts

Designation	Screw	Wrench	Wrench handle		
					
TR13	TS 40T098/HG-P	BLD IP15/S7	SW6-T		
TR15	TS 50T110/HG-P	BLD IP20/S7	SW6-T		
TR17	TS 60T130/HG-P	BLD IP20/S7	SW6-T		

TR-F-C

Facing holders





Designation	Dimension (mm)							Coolant hole	Carbide head
	DCONMS	DCONWS	LB	LF	OAL	THSZWS	DN		
TR13-20-L100-F-C	20	13	10	100	104.35	M4x0.5	16	●	TR-F.....
13-25-L100-F-C	25	13	12.5	100	104.35	M4x0.5	16	●	E206
15-25-L100-F-C	25	15	10	100	104.90	M5x0.5	21	●	
15-32-L110-F-C	32	15	13.5	110	114.90	M5x0.5	21	●	
17-32-L140-F-C	32	17	10	140	146.00	M6x0.5	28	●	
17-42-L140-F-C	42	17	15	140	146.00	M6x0.5	28	●	

Spare parts

Designation	Screw	Wrench	Wrench handle		
					
TR13	TS 40T098/HG-P	BLD IP15/S7	SW6-T		
TR15	TS 50T110/HG-P	BLD IP20/S7	SW6-T		
TR17	TS 60T130/HG-P	BLD IP20/S7	SW6-T		

INDUSTRY4.0

Milling Inserts



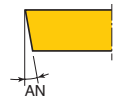
Insert Designation System

S	P	K	N
1	2	3	4

1 Shape

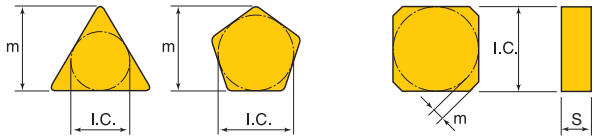
											Special
A	B	C	H	L	O	P	R	S	T	W	X

2 Clearance angle



B	C	D	E	F	G	N	P
5º	7º	15º	20º	25º	30º	0º	11º

3 Tolerance



Class	Tolerance (mm)			I.C. Dimension (mm)					
	m	S	I.C.	6.35	9.52	12.70	15.87	19.05	25.40
A	±0.005	±0.025	±0.025	●	●	●	●	●	●
E	±0.025	±0.025	±0.025	●	●	●	●	●	●
F	±0.005	±0.025	±0.013	●	●	●	●	●	●
G	±0.025	±0.130	±0.025	●	●	●	●	●	●
H	±0.013	±0.025	±0.013	●	●	●	●	●	●
K	±0.013	±0.025	±0.05	●	●				
			±0.08			●			
			±0.10				●	●	
			±0.13						●
M	±0.08	±0.130	±0.05	●	●				
	±0.13		±0.08			●			
	±0.15		±0.10				●	●	
	±0.18		±0.13						●

4 Chipformer and clamp type

								Special
A	F	G	M	N	R	T	W	X

ADVANCE MACHINING
TaeguTec Industry 4.0

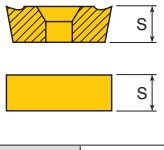
Insert Designation System

12	03	08 ED	T	R	-	
5	6	7	8	9	10	

5 Cutting edge length(mm)

I.C(mm)	C	R,S	T	H	O
5.56			09		
6.35	06	06	11		
7.94	08		13		
9.52	09	09	16		
12.70	12	12	22	05	05
15.87	16	15	27	09	
25.40	25	25			

6 Thickness(mm)



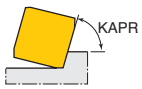
01	1.59
02	2.38
03	3.18
T3	3.97
04	4.76
05	5.56
06	6.35
07	7.94
09	9.52

7 Corner radius(mm)



02R	0.2
04R	0.4
05R	0.5
08R	0.8
10R	1.0
12R	1.2
15R	1.5
16R	1.6
24R	2.4
32R	3.2
40R	4.0

7 Parallel land



A=45° D=60°
E=75° F=85°
P=90° Z=Special

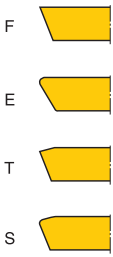
Entering angle



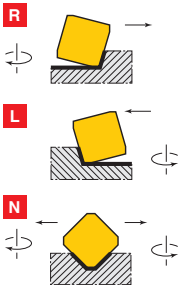
B= 5° F=25°
C= 7° G=30°
D=15° N= 0°
E=20° P=11°
Z=Special

Clearance angle of wiper

8 Edge condition



9 Hand of tool

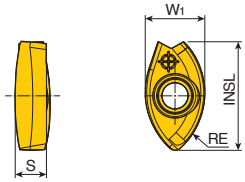


10 Manufacturer's option

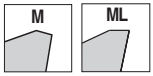
AL	Aluminum
WC	Wiper crown
MR	Medium rough
M	Medium
L	Light
ML	Medium light
E□□	Economical

DUETBALL

Inserts



Size	Dimension (mm)					
	INSL	W1	S	APMX	RE	
160	12.4	6.8	3.7	8.0	8.0	
200	14.9	8.2	4.8	10.0	10.0	
250	18.9	10.2	5.9	12.5	12.5	
300	22.1	11.8	6.8	15.0	15.0	
320	23.9	12.8	7.5	16.0	16.0	



Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**2FB 160-M**	2.0-6.5	0.30-0.07	●		●	●	●				●	
	200-M	3.0-8.0	0.35-0.08	●		●	●	●				●	
	250-M	3.5-10.0	0.35-0.08	●		●	●					●	
	300-M	4.0-12.5	0.40-0.08	●		●	●					●	
	320-M	4.5-13.0	0.40-0.08	●		●	●					●	
	**2FB 160-ML**	2.0-6.5	0.28-0.05	●		●	●						
	200-ML	3.0-8.0	0.32-0.07	●		●	●						
	250-ML	3.5-10.0	0.32-0.07	●		●							

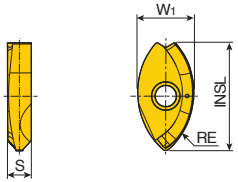
● : Standard items

E155-E156

ADVANCE MACHINING
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3FB

Inserts



Size	Dimension (mm)					
	INSL	W1	S	APMX	RE	
320C-M	23	12.0	5.2	16	16	
500C-M	36	18.6	7.0	25	25	
320P-M	21	9.9	5.2	16	16	
500P-M	32.9	15.3	7.0	25	25	



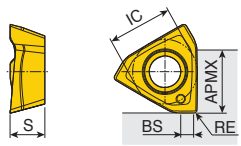
Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**3FB 320C-M**	4.5-13.0	0.15-0.08	●		●						●	
	500C-M	7.5-20.0	0.30-0.15	●		●		●				●	
	**3FB 320P-M**	4.5-13.0	0.15-0.08	●		●						●	
	500P-M	7.5-20.0	0.30-0.08	●		●						●	



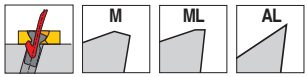
● : Standard items

TaeguTec

Inserts



Size	Dimension (mm)				
	IC	S	APMX	BS	RE
04	3.9	2.1	3.5	0.5-0.7	0.2-0.4
06	5.3	2.8	4.7	0.6-1.2	0.2-0.8
10	6.9	4.0	7.0	0.5-1.3	0.4-1.6
15	10.7	5.0	11.0	0.5-2.0	0.4-2.4
19	13.5	6.0	15.0	0.5-2.0	0.4-3.2



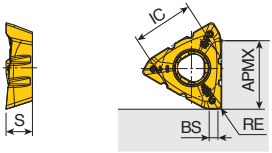
Insert	Designation		Recommended machining conditions		Cermet	Coated								Uncoated
			ap (mm)	Feed (mm/tooth)	CT7000	TT9080	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	3PKT	040202R-M	0.5-3.0	0.08-0.04		●	●							
		040204R-M	0.5-3.0	0.08-0.04		●	●							
		060302R-M	1.0-4.0	0.10-0.04		●	●	●					●	
		060304R-M	1.0-4.0	0.10-0.04		●	●	●				●	●	
		060308R-M	1.0-4.0	0.10-0.04		●	●	●				●	●	
		100404R-M	2.0-6.0	0.12-0.05		●	●	●		●	●	●	●	
		100408R-M	2.0-6.0	0.12-0.05		●	●	●		●	●	●	●	
		100416R-M	2.0-6.0	0.12-0.05		●							●	
		150508R-M	3.0-9.0	0.17-0.07		●	●	●	●	●	●	●	●	
		150516R-M	3.0-9.0	0.17-0.07		●				●			●	
		150524R-M	3.0-12.0	0.17-0.07		●							●	
		190608R-M	4.5-12.0	0.22-0.09		●	●	●	●	●	●	●	●	
		190616R-M	4.5-12.0	0.22-0.09		●	●	●		●			●	
		190624R-M	4.5-12.0	0.22-0.09		●							●	
		190632R-M	4.5-12.0	0.22-0.09		●							●	
	3PHT	100404R-M	2.0-6.0	0.12-0.05	●	●								
		100408R-M	2.0-6.0	0.12-0.05	●	●								
		150504R-M	3.0-9.0	0.17-0.07		●								
		150508R-M	3.0-9.0	0.17-0.07	●	●								
		150516R-M	3.0-9.0	0.17-0.07	●	●								
		190608R-M	4.5-12.0	0.22-0.09	●	●								
	3PKT	100404R-ML	2.0-6.0	0.10-0.04		●	●	●				●		
		100408R-ML	2.0-6.0	0.10-0.04		●	●	●						
		150508R-ML	3.0-9.0	0.12-0.05		●	●	●				●		
		190608R-ML	4.5-12.0	0.14-0.06		●	●	●				●		
	3PHT	100408R-ML	2.0-6.0	0.10-0.04		●	●							
		150508R-ML	3.0-9.0	0.12-0.05		●	●							
	3PHT	060304R-AL	1.0-4.0	0.22-0.07										●
		100404R-AL	2.0-6.0	0.40-0.10										●
		100408R-AL	2.0-6.0	0.40-0.10										●
		150504R-AL	3.0-9.0	0.50-0.10										●
		150508R-AL	3.0-9.0	0.50-0.10										●
		190604R-AL	4.5-12.0	0.50-0.15										●
		190608R-AL	4.5-12.0	0.50-0.15										●

● : Standard items

E39-E41 E105-E110 E136-E137 E180-E181

3PKT-SM

Splitter Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
15	10.7	5.0	11.0	1.6	0.8	
19	13.5	6.0	15.0	2.0	0.8	



Insert	Designation	Recommended machining conditions		Cermet	Coated							Uncoated	
		ap (mm)	Feed (mm/tooth)	CT7000	TT9080	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**3PKT 150508-SM2**	3.0-9.0	0.17-0.07		●	●		●			●		
	190608-SM2	4.5-12.0	0.22-0.09		●	●		●			●		
	**3PKT 150508-SM3**	3.0-9.0	0.17-0.07		●	●		●			●		
	190608-SM3	4.5-12.0	0.22-0.09		●	●		●			●		

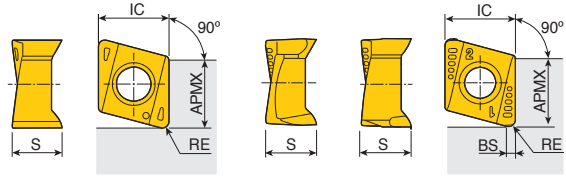






● : Standard items

Inserts



M PNR-M ML / AL

Size	Dimension (mm)				
	IC	S	APMX	BS	RE
04	4.0	3.1	3.5	-	0.2-0.8
06	6.6	4.2-5.0	5.8-6.2	0.6-1.0	0.4-2.0
09	8.6	5.7-6.3	8.0	0.8-1.2	0.4-1.6
11	10.7	8.1	9.9-10.5	1.0	0.8
14	14.0	9.2-9.4	13.5-13.8	1.25	0.8



Insert	Designation		Recommended machining conditions		Coated								Uncoated
			ap (mm)	Feed (mm/tooth)	TT9080	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**4NKT**	**040202R-M**	0.5-3.0	0.08-0.04	●	●							
		040204R-M	1.0-3.0	0.12-0.06	●	●					●		
		040208R-M	1.0-3.0	0.12-0.06	●	●							
		060304R-M	0.5-5.0	0.15-0.07	●	●					●		
		060308R-M	1.0-5.0	0.15-0.07	●	●				●	●	●	
		060312R-M	1.0-5.0	0.15-0.07	●	●							
		060316R-M	2.0-4.5	0.15-0.07	●	●				●	●	●	
		060320R-M	2.0-4.5	0.15-0.07	●	●							
		090408R-M	2.5-7.0	0.15-0.07	●	●				●	●	●	
		090416R-M	2.5-7.0	0.15-0.07	●	●					●		
		110608R-M	3.5-10.0	0.18-0.09	●	●					●		
		110616R-M	2.5-9.5	0.18-0.09	●								
		110624R-M	2.5-9.5	0.18-0.09	●								
		140708R-M	4.0-12.0	0.18-0.09	●	●		●	●		●		
	**4NKT**	**110608 PNR-M**	3.5-10.0	0.18-0.09	●	●		●					
		140708 PNR-M	4.0-12.0	0.18-0.09	●	●		●					
	**4NKT**	**060304R-ML**	0.5-5.0	0.10-0.05	●	●					●		
		060308R-ML	1.0-5.0	0.10-0.05	●	●				●	●		
		060312R-ML	1.0-5.0	0.10-0.05	●	●					●		
		060316R-ML	2.0-4.5	0.10-0.05	●	●				●	●		
		060320R-ML	2.0-4.5	0.12-0.05	●	●					●		
	**4NHT**	**060304R-ML**	0.5-5.0	0.13-0.05	●								
		060308R-ML	1.0-5.0	0.13-0.05	●	●							
		090404R-ML	2.5-7.0	0.10-0.04	●								
		090408R-ML	2.5-7.0	0.10-0.04	●	●							
	**4NHT**	**060304R-AL**	1.0-5.0	0.40-0.10									●
		060308R-AL	1.0-5.0	0.40-0.10									●
		090404R-AL	2.5-7.0	0.50-0.10									●
		090408R-AL	2.5-7.0	0.50-0.10									●
		110608R-AL	3.5-10.0	0.50-0.10									●
		140708R-AL	4.0-12.0	0.50-0.10									●

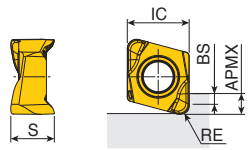
● : Standard items



4NHT 06-F

CHASE4MILL

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
05R	6.6	4.9	2.3	1.8	0.5	
10R	6.6	4.7	2.1	1.1	1.0	
15R	6.6	4.5	3.3	1.8	1.5	
20R	6.6	4.3	3.0	1.1	2.0	



Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**4NHT 060305R-F**	0.2-2.0	1.15-0.07	●							●	
	060310R-F	0.2-1.8	1.15-0.07	●							●	
	060315R-F	0.2-3.0	1.15-0.07	●							●	
	060320R-F	0.2-2.7	1.15-0.07	●							●	



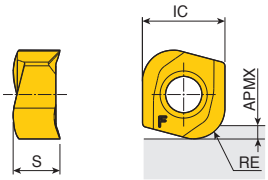


● : Standard items

4NKT-HF

CHASE4MILL

High feed inserts



Size	Dimension (mm)					
	IC	S	APMX	RE		
04-HF	4.0	2.65	0.5	1.2		
06-HF	6.6	3.85	1.0	2.0		
09-HF	8.6	4.76	1.5	3.2		
11-HF	10.7	6.56	2.0	4.0		
14-HF	14.0	7.34	3.0	5.0		

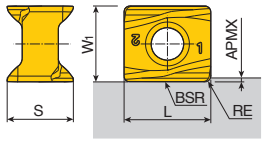
Insert	Designation	Recommended machining conditions		Coated							Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT8080	TT8525B	TT7515	TT7080	TT6080	TT2510	K10
	**4NKT 040212R-HF**	0.2-0.4	0.60-0.10	●						●	
	060320R-HF	0.2-0.6	0.80-0.20	●	●					●	
	090432R-HF	0.3-0.8	1.00-0.20	●							
	110640R-HF	0.3-1.2	1.20-0.30	●							
	140750R-HF	0.3-1.5	1.50-0.30	●							



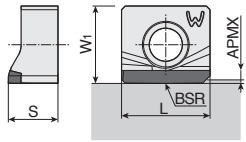


● : Standard items

Inserts

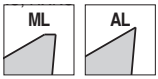


ML/AL



PCD / CBN

Size	Dimension (mm)					
	L	W_1	S	APMX	RE	BSR
12-ML/AL	12	10.5	9.08	0.5	0.8	1000
12-PCD	12	10.5	6.74	0.5	-	1000
12-CBN	12	10.63	6.71	0.5	-	1000



Insert	Designation	Recommended machining conditions		Cermet	Coated				Uncoated	PCD	CBN
		ap (mm)	Feed (mm/tooth)	CT7000	TT9080	TT9030	TT6080	TT2510	K10	TD810	TB7015
	**4WHU 1207-ML**	0.25-0.5	0.25-0.10		●		●	●			
	**4WHU 1207-ML**	0.25-0.5	0.25-0.10	●							
	**4WHU 1207-AL**	0.25-0.5	0.25-0.10						●		
	**4WHU 1207-PCD**	0.25-0.5	0.25-0.10							●	
	**4WHU 1207-CBN**	0.25-0.5	0.25-0.10								●

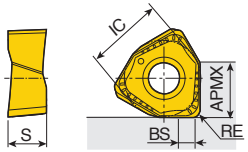
●: Standard items



6NGU

MILL2RUSH

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
06	9.26	4.76	6.2	1.2-2.4	0.4-1.6	
09	13.05	6.70	9.2	1.2-2.2	0.4-1.6	



Insert	Designation		Recommended machining conditions		Coated								Uncoated
			ap (mm)	Feed (mm/tooth)	TT9080	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**6NGU**	**060404R-M**	1.5-5.0	0.15-0.08	●	●			●		●	●	
		060405R-M	1.5-5.0	0.15-0.08	●							●	
		060408R-M	1.5-5.0	0.15-0.08	●	●	●	●	●		●	●	
		060410R-M	1.5-5.0	0.15-0.08	●						●	●	
		060416R-M	1.5-5.0	0.15-0.08	●	●			●		●	●	
		090504R-M	2.5-7.5	0.20-0.10	●	●			●		●	●	
		090508R-M	2.5-7.5	0.20-0.10	●	●	●	●	●	●	●	●	
		090516R-M	2.5-7.5	0.20-0.10	●	●		●	●	●	●	●	
	**6NGU**	**060404R-ML**	1.5-5.0	0.10-0.05	●	●					●		
		060405R-ML	1.5-5.0	0.10-0.05	●								
		060408R-ML	1.5-5.0	0.10-0.05	●	●	●		●		●		
		060416R-ML	1.5-5.0	0.10-0.05	●	●					●		
		090504R-ML	2.5-7.5	0.10-0.05	●	●					●		
		090508R-ML	2.5-7.5	0.10-0.05	●	●	●		●		●		
		090516R-ML	2.5-7.5	0.10-0.05	●	●					●		
	**6NGU**	**060404R-AL**	1.5-5.0	0.40-0.10									●
		060408R-AL	1.5-5.0	0.40-0.10									●
		090504R-AL	2.5-7.5	0.40-0.10									●
		090508R-AL	2.5-7.5	0.40-0.10									●

● : Standard items

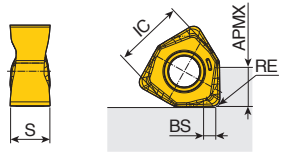


TaeguTec

6NKU 04

MILL2RUSH

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
04	7	3.9	4.1	0.85-1.25	0.4-0.8	

M

Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**6NKU 040304R-M**	1.0-3.0	0.10-0.05	●	●					●	●	
	040308R-M	1.0-3.0	0.10-0.05	●	●					●	●	


E42

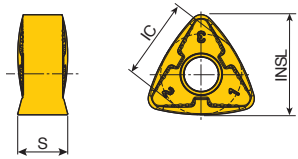

E111-E112

● : Standard items

6RBE

CHASE2BALL

Inserts



Size	Dimension (mm)					
	IC	S	INSL			
6RBE 50	13	8	16			

M

Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**6RBE 50-M**	1.0-5.0	0.80-0.10	●		●	●	●			●	●	


E158-E159

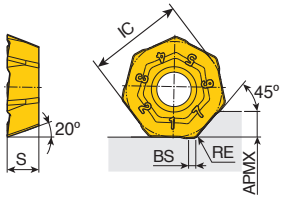
● : Standard items

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7EMT

CHASE HEPTA

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
06	12.8	4.2	3.2	1.0	0.8	

M ML

Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**7EMT 0604 AETR-M**	1.0-2.5	0.15-0.06	●	●			●		●		
	**7EMT 0604 AETR-ML**	1.0-2.5	0.15-0.06	●	●					●		

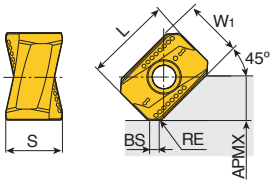
E77 E141

● : Standard items

ANHX 1607 ANR-M

CHASE 2 MILL

Inserts



Size	Dimension (mm)					
	L	W1	S	APMX	BS	RE
16	16	11	10.4	8.4	1.6	1.0

M

Insert	Designation	Recommended machining conditions		Coated							Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10
	**ANHX 1607 ANR-M**	2.5-7.0	0.30-0.15	●		●		●	●		●	

E82

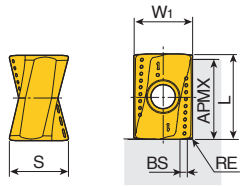
• Use only for 45° cutter

● : Standard items

TaeguTec Member IMC Group

ANM(H)X

Inserts



Size	Dimension (mm)					
	L	W1	S	APMX	BS	RE
11	12	9.2	8.5	11	0.7-1.5	0.4-1.6
16	16	11.0	10.4-10.9	15	0.6-1.7	0.4-2.4



Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**ANMX 110608R-M**	3.0-9.0	0.20-0.10	●		●							
	160708R-M	4.5-12.0	0.20-0.10	●		●							
	ANHX 110604R-M	3.0-9.0	0.15-0.08	●		●					●	●	
	110608R-M	3.0-9.0	0.15-0.08	●		●	●	●	●	●	●	●	
	110616R-M	3.0-9.0	0.15-0.08	●		●						●	
	160704R-M	4.5-12.0	0.20-0.10	●	●	●			●	●	●	●	
	160708R-M	4.5-12.0	0.20-0.10	●	●	●	●	●	●	●	●	●	
	160716R-M	4.5-12.0	0.20-0.10	●		●			●		●	●	
	160724R-M	4.5-12.0	0.20-0.10	●		●		●	●		●	●	
	**ANHX 160708R-ML**	4.5-12.0	0.12-0.06			●	●	●					
	**ANHX 160708R-MR**	4.5-12.0	0.25-0.13			●		●					
	**ANHX 110604R-AL**	3.0-9.0	0.40-0.10										●
	110608R-AL	3.0-9.0	0.40-0.10										●
	160704R-AL	4.5-12.0	0.40-0.10										●
	160708R-AL	4.5-12.0	0.40-0.10										●
	**ANHX 110608R-SM**	3.0-9.0	0.15-0.08	●		●		●			●		
	160708R-SM	4.5-12.0	0.20-0.10	●		●		●		●	●		
	**ANHX 110608R-SML**	3.0-9.5	0.15-0.06	●		●							
	160708R-SML	4.5-13.5	0.20-0.06	●		●					●		

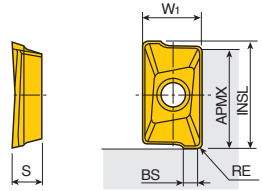
● : Standard items

E51-E52 E124-E125 E184-E185 E277-E278

APK(C)T 09

CHASEMILL

Inserts



Size	Dimension (mm)					
	INSL	W1	S	APMX	BS	RE
09	9.7-10.6	6.20	3.8	8.8	0.5-1.79	0.4-3.2
09T3 PER	9.8-9.9	6.20	3.8	8.8	0-1.14	0.4



Insert	Designation	Recommended machining conditions		Cermet	Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	CT7000	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**APKT 09T3 PER-EM**	2.5-7.5	0.10-0.05	●	●	●	●	●	●	●		●	●	●
	09T305R-EM	2.5-7.5	0.10-0.05					●						
	09T308R-EM	2.5-7.5	0.10-0.05		●	●	●	●		●		●	●	
	09T316R-EM	2.5-7.5	0.10-0.05		●	●	●	●		●		●	●	
	09T320R-EM	2.5-7.5	0.10-0.05		●		●						●	
	09T332R-EM	2.5-7.5	0.10-0.05		●		●						●	
	09T3 PER-M	2.5-7.5	0.10-0.05					●		●		●	●	
	**APCT 09T3 PER-ML**	3.0-7.5	0.10-0.05		●		●	●		●		●		
	**APCT 09T3 PER-AL**	2.5-7.5	0.35-0.05											●



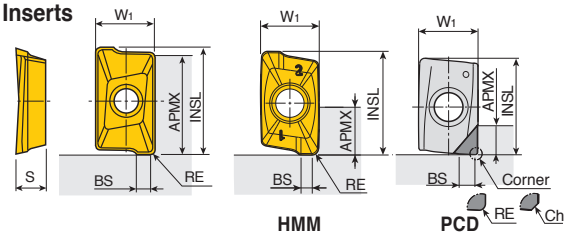
● : Standard items

TaeguTec

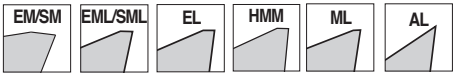
APK(C)T 12

CHASEMILL

Inserts



Size	Dimension (mm)					
	INSL	W1	S	APMX	BS	RE(ch)
12	13.0-14.6	8.3	4.5-4.9	11.8-12.5	0.9-2.1	0.4-4.0
1204 PER	13.4-14.6	8.3	4.5-4.9	11.8-12.5	0.9-2.1	0.8
1204-HMM	14.6	8.3	4.7	6.5	1.6	0.8
12...R-PCD	13.3	8.2	4.5	3.5	2	0.4
12...C-PCD	13.3	8.2	4.5	3.5	2.1	(0.25)



Insert	Designation		Recommended machining conditions		PCD	Coated								Uncoated
			ap (mm)	Feed (mm/tooth)	TD830	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**APKT**	**1204 PER-EM**	3.5-10.0	0.14-0.07		●	●	●	●	●	●	●	●	●	
		120404R-EM	3.5-10.0	0.14-0.07			●		●		●		●	●	
		120416R-EM	3.5-10.0	0.14-0.07		●	●	●	●	●	●		●	●	
		120424R-EM	3.5-10.0	0.14-0.07			●	●	●					●	
		120430R-EM	3.5-10.0	0.14-0.07		●	●	●	●	●	●		●	●	
		120432R-EM	3.5-10.0	0.14-0.07			●		●				●	●	
		120440R-EM	3.5-10.0	0.14-0.07		●		●						●	
	**APKT**	**1204 PER-SM**	3.5-10.0	0.14-0.07		●		●		●			●		
	**APKT**	**1204 PER-SML**	3.5-10.5	0.14-0.06		●		●							
	**APKT**	**1204 PER-EML**	3.5-10.0	0.08-0.04		●		●							
	**APKT**	**1204 PER-EL**	3.5-10.0	0.05-0.03		●	●	●	●						
	**APKT**	**1204 PER-HMM**	3.5-6.5	0.12-0.05		●									
	**APCT**	**120430R-ML**	3.5-10.0	0.08-0.04		●		●							
		120432R-ML	3.5-10.0	0.08-0.04		●		●							
		120440R-ML	3.5-9.5	0.08-0.04		●		●							
	**APCT**	**1204 PER-AL**	3.5-10.0	0.50-0.10											●
		120404R-AL	3.5-10.0	0.50-0.10											●
		120416R-AL	3.5-10.0	0.50-0.10											●
 PCD	**APCT**	**120404R-PCD35**	0.2-3.0	0.30-0.05	●										
		1204C025-PCD35	0.2-3.0	0.30-0.05	●										









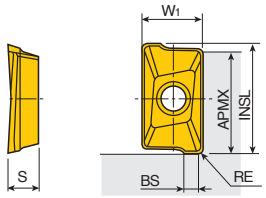


● : Standard items

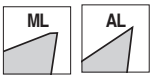
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APCT 17

Inserts



Size	Dimension (mm)					
	INSL	W1	S	APMX	BS	RE
17-ML	18.5	10.8	5.55	16.1	2.07	0.8
17-AL	18.3-18.5	10.8	5.62	16.1	1.55-2.56	0.8-3.0
17-SAL	18.5	10.8	5.62	16.1	2.56	0.8



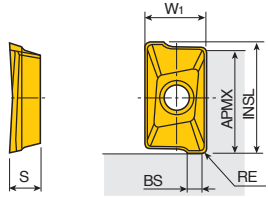
Insert	Designation	Recommended machining conditions		Coated									Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**APCT 1705 PER-ML**	4.5-13.0	0.12-0.06	●		●							
	**APCT 1705 PER-AL**	4.5-13.0	0.50-0.10										●
	170530R-AL	4.5-13.0	0.50-0.10										●
	**APCT 1705 PER-SAL**	4.5-13.0	0.50-0.10										●



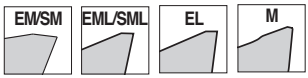
●: Standard items

CHASEMILL

Inserts



Size	Dimension (mm)					
	INSL	W1	S	APMX	BS	RE
17	16.8–18.5	10.7	5.56	15-16	0.9-3.17	0.4-6.4
17 PER	18.5-18.9	10.7	5.56-6.5	16	0.9-3.17	0.8



Insert	Designation	Recommended machining conditions		Coated									Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**APKT 1705 PER-EM**	4.5-13.0	0.18-0.09	●	●	●	●	●	●		●	●	●
	170504R-EM	4.5-13.0	0.18-0.09	●		●	●		●		●	●	
	170510R-EM	4.5-13.0	0.17-0.09	●	●	●		●	●		●	●	
	170516R-EM	4.5-13.0	0.17-0.09	●	●	●	●		●		●	●	
	170524R-EM	4.5-13.0	0.17-0.09	●	●	●	●	●	●		●	●	
	170530R-EM	4.5-13.0	0.17-0.09	●	●	●	●		●			●	
	170532R-EM	4.5-13.0	0.17-0.09	●	●	●	●	●	●		●	●	
	170535R-EM	4.5-13.0	0.17-0.09	●	●						●	●	
	170540R-EM	4.5-13.0	0.20-0.10	●	●		●					●	
	170548R-EM	4.5-13.0	0.17-0.09	●	●	●	●	●	●	●	●	●	
	170550R-EM	4.5-13.0	0.20-0.10		●		●					●	
	170564R-EM	4.5-13.0	0.18-0.09	●	●	●	●		●		●	●	
	**APKT 1706 PER-EM**	4.5-13.0	0.18-0.09	●	●	●	●	●	●		●	●	●
	**APKT 1705 PER-M**	4.5-13.0	0.18-0.09				●		●		●	●	●
	170516R-M	4.5-13.0	0.30-0.15				●						
	170532R-M	4.5-13.0	0.20-0.10				●		●		●	●	
	170548R-M	4.5-13.0	0.20-0.10				●						
	**APKT 1705 PER-SM**	4.5-13.0	0.17-0.09	●		●		●			●		
	**APKT 1705 PER-SML**	4.5-14.5	0.17-0.06	●		●							
	**APKT 1705 PER-EML**	4.5-13.0	0.14-0.07	●		●			●				
	**APKT 1705 PER-EL**	4.5-13.0	0.10-0.05	●	●	●	●	●					


E48-E49,E67


E121-E122


E186-E187



E277-E278

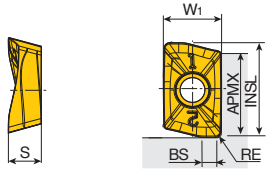
● : Standard items

ADVANCE MACHINING
TaeguTec Industry 4.0

APKT 19

CHASEMILL

Inserts



Size	Dimension (mm)					
	INSL	W1	S	APMX	BS	RE
19	21	13	7.35	17.9	2.0	1.2



Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**APKT 190712R-M**	5.0-15.0	0.20-0.07	●		●		●	●		●	●	
	**APKT 190712R-MR**	5.0-15.0	0.25-0.10	●		●		●	●			●	
	**APKT 190712R-ML**	5.0-15.0	0.20-0.08	●							●		



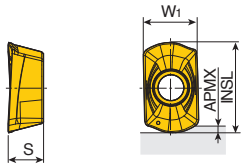
● : Standard items

TaeguTec

APKT/AXMT-HF

CHASEMILL

High feed inserts



Size	Dimension (mm)					
	INSL	W1	S	APMX		
06	6.7	4.04	2.6	0.5		
09	10.7	5.94	3.9	1.0		
12	14.2	8.0	5.0	1.2		

Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**AXMT 0602R-HF**	0.2-0.5	0.70-0.30	●		●						●	
	APKT 09T3R-HF	0.1-1.0	0.80-0.30	●		●						●	
	1204R-HF	0.2-1.0	0.80-0.10	●		●						●	

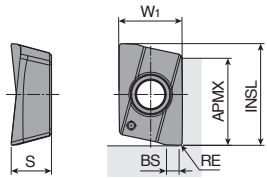
● : Standard items

E47-E49 E115-E120

AXCT 06-L

CHASEMILL

Inserts



Size	Dimension (mm)					
	INSL	W1	S	APMX	BS	RE
06	6.5	4.2	2.6	5.5	0.6-1.0	0-0.4



Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT5525	K10
	**AXCT 060200R-L**	0.1-5.0	0.08-0.03									●	
	060202R-L	0.2-5.0	0.10-0.03									●	
	060204R-L	0.3-5.0	0.10-0.03									●	

● : Standard items

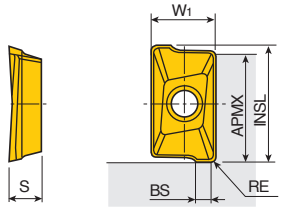
E114

ADVANCE MACHINING
TaeguTec Industry 4.0

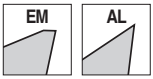
AXMT 06/AXCT 06

CHASEMILL

Inserts



Size	Dimension (mm)					
	INSL	W_1	S	APMX	BS	RE
06-EM	6.7	4.15	2.6	5.5	0-0.76	0.2-2.0
06-AL	6.7	4.20	2.6	5.5	0.23-0.83	0.2-0.8



Insert	Designation	Recommended machining conditions		Coated									Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT5525	TT2510	K10
	**AXMT 0602 PER-EM**	1.5-5.0	0.08-0.04	●	●	●	●						●	
	060204R-EM	1.5-5.0	0.13-0.07	●	●	●	●				●		●	
	060208R-EM	1.5-5.0	0.13-0.07	●	●	●	●				●		●	
	060216R-EM	1.5-5.0	0.13-0.07	●	●	●	●						●	
	060220R-EM	1.5-5.0	0.13-0.07	●		●								
	**AXCT 060202R-AL**	1.5-5.0	0.20-0.10											●
	060204R-AL	1.5-5.0	0.20-0.10											●
	060208R-AL	1.5-5.0	0.20-0.10											●

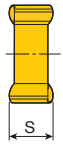
E47 E115-E116 E186

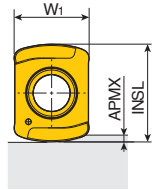
● : Standard items

TaeguTec

BLMP

High feed inserts





Size	Dimension (mm)					
	INSL	W1	S	APMX		
04	6.0	4.2	2.5	0.5		
06	9.0	6.39	3.73	1.0		
09	11.9	9.20	4.79	1.5		
11	14.6	11.2	6.54	2.0		



Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**BLMP 0402R-M**	0.1-0.5	1.50-0.20	●	●						●	
	0603R-M	0.1-1.0	2.50-0.30	●	●	●	●			●	●	
	0904R-M	0.1-1.5	3.50-0.30	●	●	●	●		●	●	●	
	1105R-M	0.3-2.0	4.00-0.30	●	●	●	●				●	
	**BLMP 0603R-MM**	0.1-1.0	2.00-0.20	●	●	●					●	
	0904R-MM	0.1-1.5	3.00-0.20	●	●	●					●	
	**BLMP 0402R-ML**	0.1-0.5	0.80-0.10	●	●							
	0603R-ML	0.1-1.0	0.80-0.10	●	●	●						
	0904R-ML	0.1-1.5	0.80-0.30	●	●	●						
	1105R-ML	0.3-2.0	0.40-0.30	●	●							

● : Standard items

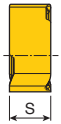

E95-E96

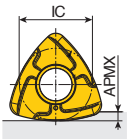

E164-E171

BLMP 13

CHASE2FEED

High feed inserts





Size	Dimension (mm)					
	IC	S	APMX			
13	12.3	7	2.0			



Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**BLMP 1306R-M**	0.5-2.0	4.50-0.40	●	●	●	●		●	●	●	
	**BLMP 1306R-MM**	0.5-2.0	4.50-0.40	●	●	●	●				●	
	**BLMP 1306R-MR**	0.5-2.0	4.50-0.40	●	●	●	●		●	●	●	

● : Standard items

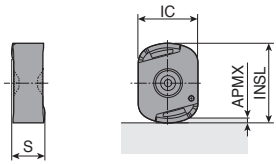


TaeguTec

BNGX 09

CERAMICSFEED

High feed inserts



Size	Dimension (mm)					
	INSL	IC	S	APMX		
09	12	9	5	1.5		

Insert	Designation	Recommended machining conditions		Ceramic		Coated								Uncoated		
		ap (mm)	Feed (mm/tooth)	TC3030	TC3020	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10		
	**BNGX 0904 CH-E04**	0.5-1.0	0.35-0.15	●												



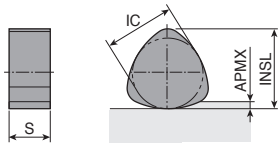
• E04: Honing 0.04-0.05mm

●: Standard items

BNGX 12

CERAMICSFEED

High feed inserts



Size	Dimension (mm)					
	INSL	IC	S	APMX		
12	13.6	12	7	2.5		

Insert	Designation	Recommended machining conditions		Ceramic		Coated								Uncoated		
		ap (mm)	Feed (mm/tooth)	TC3030	TC3020	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10		
	**BNGX 1207-E04**	1.0-2.0	0.35-0.15	●												



• E04: Honing 0.04-0.05mm

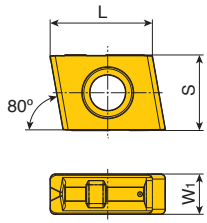
●: Standard items

ADVANCE MACHINING
TaeguTec Industry 4.0

CNHX

TRIOBALL

Inserts



Size	Dimension (mm)					
	L	S	W1			
131108T	12.7	11	5.4			
160608T	16.0	12	6.4			

Insert	Designation	Recommended machining conditions		Coated								Uncoated		
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080		K10	
	**CNHX 131108T**	1.2-5.5	0.55-0.17					●						
	160608T	1.2-5.5	0.60-0.20					●						

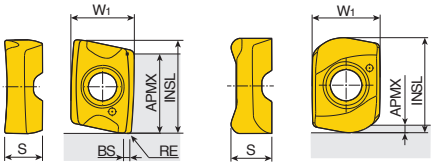


●: Standard items

CVK(H)T

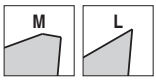
MILLSFEED

Inserts



M/L HF (High Feed)

Size	Dimension (mm)					
	INSL	W1	S	APMX	BS	RE
05-M	6.3	4.2	2.6	5.0	0.35	0.2
05-L	6.3	4.1	2.6	5.0	0.30	0.2
05-HF	5.6	4.1	2.5	0.5	-	-

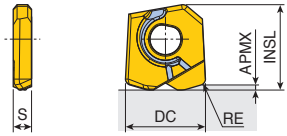


Insert	Designation	Recommended machining conditions		Coated									Uncoated		
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT5525	TT2510	K10	
	**CVKT 0502PNR-M**	0.5-4.0	0.08-0.04	●		●									
	**CVHT 0502PNR-L**	0.5-4.0	0.07-0.03	●		●						●			
	**CVKT 0502R-HF**	0.2-0.4	0.70-0.30	●		●							●		



●: Standard items

High feed inserts



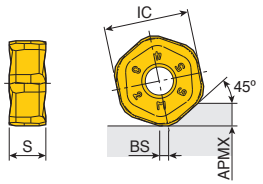
Size	Dimension (mm)					
	INSL	DC	S	APMX	RE	
06	5.9	6	1.6	0.3	0.5	
08	8.4	8	1.8	0.5	0.6	

Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT5515	K10
	**HFN 060-M**	0.1-0.2	0.50-0.30									●	
	080-M	0.2-0.3	0.50-0.30									●	

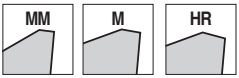
●: Standard items


E160-E161

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS		
06-MM	14	6.8	3.0	1.3		
06-M	14	6.8	3.0	1.0		
10-MM	19.05	8.3	5.0	1.6		
10-M/HR	19.05	8.3	5.0	1.0		



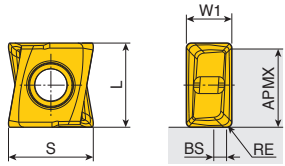
Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10
	**HXHU 0605 ANR-MM**	1.0-3.0	0.35-0.10	●							●	
	1007 ANR-MM	2.0-5.0	0.45-0.10								●	
	**HXKU 0605 ANR-M**	1.0-3.0	0.25-0.10	●				●			●	
	1007 ANR-M	2.0-5.0	0.30-0.10	●				●				
	**HXKU 1007 ANR-HR**	2.0-5.0	0.60-0.10					●				
		2.0-5.0	0.70-0.10							●		

●: Standard items



E71-E72

Inserts



Size	Dimension (mm)					
	L	W1	S	APMX	BS	RE
05	5	2.7	5.0	4.6	-	0.4
09	9	4.5	8.6	8.3	0.6	0.4-0.8
14	13.5	6.7	13.5	12.5	0.9	0.8





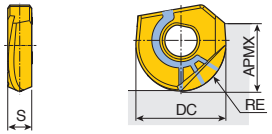
Insert	Designation		Recommended machining conditions		Coated								Uncoated
			ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10
	**LPKU**	**050204 PNR-M**	1.0-3.5	0.08-0.04	●		●					●	
		090404 PNR-M	2.5-6.0	0.15-0.06	●		●		●			●	
		090408 PNR-M	2.5-6.0	0.15-0.06	●		●					●	
		140708 PNR-M	3.5-10.0	0.20-0.10	●		●		●			●	
	**LPHU**	**050204 PNR-ML**	1.0-3.5	0.08-0.04			●					●	
	**LPHU**	**090404 PNR-M**	2.5-6.0	0.15-0.06			●					●	

●: Standard items



ADVANCE MACHINING
TaeguTec
Industry 4.0

Inserts



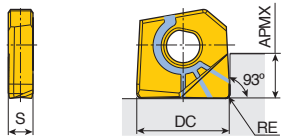
Size	Dimension (mm)					
	DC	S	APMX	RE		
060	6	2.0	4.5-4.8	3.0		
080	8	2.2	6.6-6.9	4.0		
100	10	2.7	8.0-8.2	5.0		
120	12	3.2	9.6-9.7	6.0		
160	16	4.2	12.3-12.7	8.0		
200	20	5.2	14.4-14.7	10.0		
250	25	6.2	16.8-17.4	12.5		
300	30	7.2	18.6-19.2	15.0		
320	32	7.2	18.4-19.2	16.0		

Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT8080	TT8525B	TT7080	TT7515	TT6080	TT5525	TT5515	TT2510	K10
 Straight cutting edge	**NFB 060-FM**	0.05-0.2	0.15-0.05								●		
	080-FM	0.05-0.3	0.20-0.05							●	●		
	100-FM	0.05-0.3	0.20-0.05							●	●		
	120-FM	0.05-0.5	0.30-0.08							●	●		
	160-FM	0.05-0.5	0.30-0.08							●	●		
	200-FM	0.10-1.0	0.30-0.08							●	●		
	250-FM	0.15-1.0	0.40-0.08							●	●		
	300-FM	0.15-1.0	0.40-0.08							●	●		
	320-FM	0.15-1.0	0.40-0.08							●	●		
 Helical cutting edge	**NFB 060-SM**	0.80-2.5	0.20-0.05								●	●	
	080-SM	1.20-3.2	0.25-0.05							●	●	●	
	100-SM	1.50-4.0	0.25-0.05							●	●	●	
	120-SM	1.80-4.8	0.35-0.08							●	●	●	
	160-SM	2.40-6.4	0.35-0.08							●	●	●	
	200-SM	3.00-8.0	0.35-0.08							●	●	●	
	250-SM	3.75-10.0	0.45-0.08							●	●	●	
	300-SM	4.50-12.0	0.45-0.08							●	●	●	
	320-SM	4.80-12.8	0.45-0.08							●	●	●	

● : Standard items


E147-E149

Inserts



Size	Dimension (mm)					
	DC	S	APMX	RE		
060	6	2.0	2.5	0.3-1.0		
080	8	2.2	3.4	0.3-1.0		
100	10	2.7	4.0	0.3-2.0		
110	11	2.7	4.4	0.3-2.0		
120	12	3.2	5.0	0.3-2.0		
130	13	3.2	5.4	0.3-2.0		
160	16	4.2	6.9	0.3-3.0		
170	17	4.2	7.4	1.0-2.0		

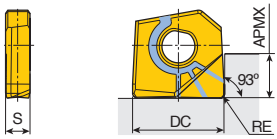
Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT8080	TT8525B	TT7080	TT7515	TT6080	TT5525	TT5515	TT2510	K10
	**NFR 060A-R03**	0.05-0.15	0.10-0.05								●		
	060A-R05	0.10-0.15	0.10-0.05								●		
	060A-R10	0.10-0.15	0.10-0.05								●		
	080A-R03	0.05-0.2	0.12-0.05							●	●	●	
	080A-R05	0.05-0.2	0.12-0.05							●	●	●	
	080A-R06	0.05-0.2	0.12-0.05							●	●	●	
	080A-R10	0.05-0.2	0.12-0.05							●	●	●	
	100A-R03	0.05-0.3	0.12-0.05							●	●	●	
	100A-R05	0.05-0.3	0.12-0.05							●	●	●	
	100A-R08	0.05-0.3	0.12-0.05							●	●	●	
	100A-R10	0.05-0.3	0.12-0.05							●	●	●	
	100A-R15	0.05-0.3	0.12-0.05							●	●	●	
	100A-R20	0.05-0.3	0.12-0.05								●	●	
	110A-R10	0.05-0.3	0.12-0.05							●	●	●	
	110A-R20	0.05-0.3	0.12-0.05							●	●	●	
	120A-R03	0.07-0.3	0.15-0.08							●	●	●	
	120A-R05	0.07-0.3	0.15-0.08							●	●	●	
	120A-R10	0.07-0.3	0.15-0.08							●	●	●	
	120A-R15	0.07-0.3	0.15-0.08							●	●	●	
	120A-R20	0.07-0.3	0.15-0.08							●	●	●	
	130A-R10	0.07-0.3	0.15-0.08							●	●	●	
	130A-R20	0.07-0.3	0.15-0.08							●		●	
	160A-R03	0.08-0.5	0.15-0.08							●	●	●	
	160A-R05	0.08-0.5	0.15-0.08							●	●	●	
	160A-R10	0.08-0.5	0.15-0.08							●	●	●	
	160A-R13	0.08-0.5	0.15-0.08								●	●	
	160A-R15	0.08-0.5	0.15-0.08							●	●	●	
	160A-R20	0.08-0.5	0.15-0.08							●	●	●	
	160A-R30	0.08-0.5	0.15-0.08							●	●	●	
	170A-R10	0.08-0.5	0.15-0.08								●	●	
	170A-R20	0.08-0.5	0.15-0.08								●		

● : Standard items

E147-E152

NFR

Inserts



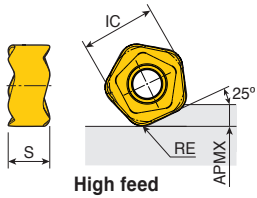
Size	Dimension (mm)					
	DC	S	APMX	RE		
200	20	5.2	8.7-9.2	0.3-3.0		
210	21	5.2	9.2	1.0-2.0		
250	25	6.2	10.6	0.3-3.0		
260	26	6.2	11	1.0-2.0		
300	30	7.1	12.7	1.0-2.0		
320	32	7.1	13.6	1.0-2.0		

Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT8080	TT8525B	TT7080	TT7515	TT6080	TT5525	TT5515	TT2510	K10
	**NFR 200A-R03**	0.1-0.7	0.15-0.08							●	●	●	
	200A-R05	0.1-0.7	0.15-0.08							●	●	●	
	200A-R10	0.1-0.7	0.15-0.08							●	●	●	
	200A-R15	0.1-0.7	0.15-0.08							●	●	●	
	200A-R16	0.1-0.7	0.15-0.08							●	●	●	
	200A-R20	0.1-0.7	0.15-0.08							●	●	●	
	200A-R30	0.1-0.7	0.15-0.08							●	●	●	
	210A-R10	0.1-0.7	0.15-0.08							●	●	●	
	210A-R20	0.1-0.7	0.15-0.08							●	●	●	
	250A-R03	0.1-1.0	0.15-0.08							●	●	●	
	250A-R05	0.1-1.0	0.15-0.08							●	●	●	
	250A-R10	0.1-1.0	0.15-0.08							●	●	●	
	250A-R15	0.1-1.0	0.15-0.08							●	●	●	
	250A-R20	0.1-1.0	0.15-0.08							●	●	●	
	250A-R30	0.1-1.0	0.15-0.08							●	●	●	
	260A-R10	0.1-1.0	0.15-0.08							●	●	●	
	260A-R20	0.1-1.0	0.15-0.08							●	●	●	
	300A-R05	0.1-1.0	0.20-0.08							●	●	●	
	300A-R10	0.1-1.0	0.20-0.08								●	●	
	300A-R20	0.1-1.0	0.20-0.08								●	●	
	320A-R10	0.1-1.0	0.20-0.08							●	●	●	
	320A-R20	0.1-1.0	0.20-0.08								●	●	

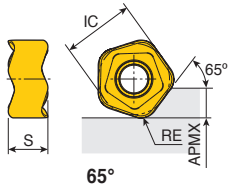
● : Standard items


E147-E152

Inserts



High feed



65°

Size	Dimension (mm)					
	IC	S	APMX	RE		
05(HF)	7.1	3.8	1.5	1.5		
05(65°)	7.1	3.8	3.3	1.5		
10(HF)	14.2	7.7	3.0	3.0		
10(65°)	14.2	7.7	6.5	3.0		



Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10
	**PTKU 0503R-M** (High feed)	0.2-1.5	1.20-0.20	●		●						
	1006R-M (High feed)	0.3-2.0	2.00-0.30	●		●		●				
	PTKU 0503R-M (65°)	1.0-3.0	0.20-0.07	●		●						
	1006R-M (65°)	1.5-5.0	0.25-0.10	●		●		●				

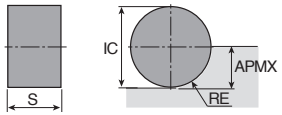
● : Standard items

E68, E94 E163

RNGN 12-FL

CHASESPEED

Inserts



Size	Dimension (mm)					
	RE	IC	S	APMX		
12	6.35	12.7	7.94	6.3		

Insert	Designation	Recommended machining conditions		Ceramic		Coated							Uncoated
		ap (mm)	Feed (mm/tooth)	TC3020	TC3030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**RNGN 1207 FL-E**	0.5-3.0	0.25-0.10	●	●								
	1207 FL-E04	0.5-3.0	0.25-0.10	●	●								
	1207 FL-T6	0.5-3.0	0.25-0.10	●	●								

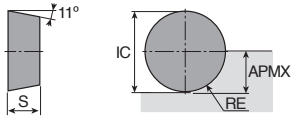
● : Standard items



RPGN 09/12-FL

CHASESPEED

Inserts



Size	Dimension (mm)					
	RE	IC	S	APMX		
09	4.76	9.52	3.18	4.7		
12	6.35	12.7	4.76	6.3		

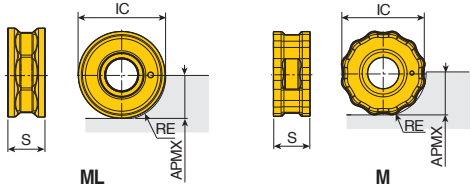
Insert	Designation	Recommended machining conditions		Ceramic		Coated							Uncoated
		ap (mm)	Feed (mm/tooth)	TC3020	TC3030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**RPGN 0903 FL-E04**	0.5-1.5	0.15-0.07	●	●								
	1204 FL-E	0.5-2.0	0.20-0.07	●	●								
	1204 FL-E04	0.5-2.0	0.20-0.07	●	●								
	1204 FL-T6	0.5-2.0	0.20-0.07	●	●								

● : Standard items

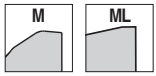




Inserts



Size	Dimension (mm)					
	RE	IC	S	APMX		
10	5	10	4.5	5.0		
12	6	12	5.0	6.0		
16	8	16	6.3	8.0		



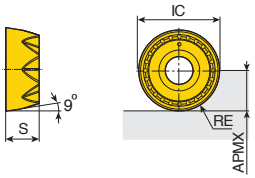
Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**RNMU1004-ML**	1.5-4.0	0.30-0.05	●		●	●	●				●	
	1205-ML	1.5-5.0	0.35-0.05	●		●	●	●				●	
	1606-ML	2.0-6.5	0.40-0.05	●		●	●	●				●	
	**RNMU1004S-M**	1.5-4.0	0.35-0.05	●		●	●	●				●	
	1205S-M	1.5-5.0	0.40-0.05	●		●	●	●				●	
	1606S-M	2.0-6.5	0.45-0.05	●		●	●	●				●	

● : Standard items

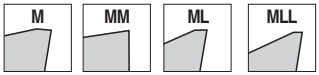
E85-E86 E142-E143

RYM(H)X

Inserts



Size	Dimension (mm)					
	RE	IC	S	APMX		
08	4	8	3.2	4.0		
10	5	10	4.0	5.0		
12	6	12	4.8	6.0		
16	8	16	6.1	8.0		
20	10	20	7.0	10.0		

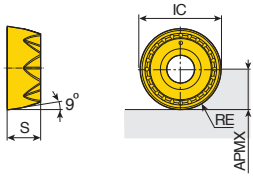


Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**RYMX 0803-M**	1.0-3.5	0.25-0.05	●		●		●	●		●	●	
	1004-M	1.5-4.0	0.30-0.10	●		●	●	●	●		●	●	
	1205-M	1.5-5.0	0.50-0.10	●		●	●	●	●		●	●	
	1205-6M	1.5-5.0	0.50-0.10	●								●	
	1606-M	2.0-6.5	0.50-0.10	●		●	●	●	●		●	●	
	1606-7M	2.0-6.5	0.50-0.10	●				●				●	
	2007-M	3.0-8.0	0.50-0.10	●		●	●	●	●		●	●	
	**RYMX 0803-MM**	1.0-3.5	0.30-0.07	●		●	●						
	1004-MM	1.5-4.0	0.35-0.07	●		●	●						
	1205-MM	1.5-5.0	0.40-0.10	●		●	●	●					
	1205-6MM	1.5-5.0	0.40-0.10	●									
	1606-MM	2.0-6.5	0.45-0.10	●		●	●						
	1606-7MM	2.0-6.5	0.45-0.10	●		●	●						
	RYHX 1205-MM	3.0-8.0	0.40-0.10	●			●						
	**RYMX 0803-ML**	1.0-3.5	0.25-0.05	●		●	●	●					
	1004-ML	1.5-4.0	0.30-0.05	●		●	●	●					
	1205-ML	1.5-5.0	0.35-0.05	●		●	●	●					
	1205-6ML	1.5-5.0	0.35-0.05	●		●							
	1606-ML	2.0-6.5	0.40-0.05	●		●	●	●					
	1606-7ML	2.0-6.5	0.40-0.05	●									
	2007-ML	3.0-8.0	0.50-0.10	●		●	●	●	●				
	RYHX 0803-ML	1.0-3.5	0.25-0.05	●		●	●						
	1004-ML	1.5-4.0	0.30-0.05	●		●	●						
	1205-ML	1.5-5.0	0.35-0.05	●		●	●						
	1606-ML	2.0-6.5	0.40-0.10	●		●							
	**RYMX 0803-MLL**	1.0-3.5	0.25-0.05			●	●						
	1004-MLL	1.5-4.0	0.30-0.05	●		●	●						
	1205-MLL	1.5-5.0	0.35-0.05	●		●	●						
	RYHX 0803-MLL	1.0-3.5	0.25-0.05			●	●						
	1004-MLL	1.5-4.0	0.30-0.05			●							
	1205-MLL	1.5-5.0	0.35-0.05	●		●	●						

● : Standard items

E87-E89 E144-E146

Inserts



Size	Dimension (mm)					
	RE	IC	S	APMX		
08	4	8	3.2	4.0		
10	5	10	4.0	5.0		
12	6	12	4.8	6.0		
16	8	16	6.1	8.0		
20	10	20	7.0	10.0		



Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**RYMX 0803-MR**	1.0-3.5	0.30-0.05	●				●	●		●	●	
	1004-MR	1.5-4.0	0.35-0.05	●		●			●			●	
	1205-MR	1.5-5.0	0.35-0.05	●		●			●		●	●	
	1606-MR	2.0-6.5	0.40-0.05	●				●	●		●	●	
	2007-MR	3.0-8.0	0.45-0.10	●				●			●	●	
	RYHX 0803-MR	1.5-4.0	0.30-0.05	●								●	
	1004-MR	1.5-5.0	0.35-0.05	●							●	●	
	1205-MR	2.0-6.5	0.35-0.05	●							●	●	
	**RYHX 0803-AL**	1.0-3.5	0.80-0.10										●
	1004-AL	1.5-4.0	0.80-0.10										●
	1205-AL	1.5-5.0	0.80-0.10										●
	1606-AL	2.0-6.5	0.80-0.10										●
	**RYHX 0803-L**	1.0-3.5	0.25-0.05			●							
	1004-L	1.5-4.0	0.30-0.05	●		●	●						
	1205-L	1.5-5.0	0.35-0.05	●		●	●						

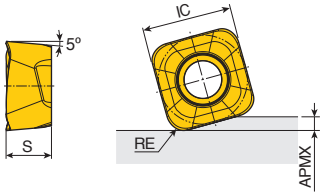
● : Standard items


E87-E89 E144-E146

SBMT

CHASEFEED

Inserts



Size	Dimension (mm)					
	IC	S	APMX	RE		
06	6.3	3.16	1.0	1.0		
09	9.0	4.0	1.2	1.5		
13	13.1	6.7	2.0	2.5		



Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**SBMT 060310R-M**	0.1-1.0	1.50-0.20	●	●							
	090415R-M	0.1-1.2	2.00-0.20	●	●	●	●	●		●	●	
	130625R-M	0.5-2.0	2.00-0.42	●	●	●	●	●		●	●	
	**SBMT 060310R-ML**	0.1-1.0	1.20-0.10	●	●							
	090415R-ML	0.1-1.2	1.50-0.10	●	●							
	130625R-ML	0.5-2.0	2.00-0.42	●	●							
	**SBMT 090415R-MR**	0.1-1.2	2.50-0.30	●			●				●	
	130625R-MR	0.5-2.0	2.00-0.42	●							●	

● : Standard items

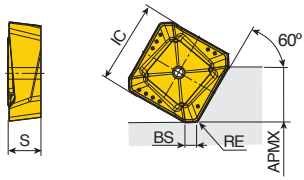

E99-E100

E173-E175

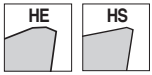
SCKN 21/27

LIONMILL

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
21-HE	20.8	7	13	2	1.5	
21-HS	21	6.95	13	2	1.5	
27-HE	26.8	8.95	18	2	2	
27-HS	27	8.9	18	2	2	



Insert	Designation	Recommended machining conditions		Coated							Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10
	**SCKN 2107 DDTR-HE**	3.5-10.5	0.25-0.13					●	●	●		
	2708 DDTR-HE	5.0-14.5	0.30-0.15					●	●			
	**SCKN 2107 DDTR-HS**	3.5-10.5	0.25-0.13					●				
	2708 DDTR-HS	5.0-14.5	0.25-0.13					●				

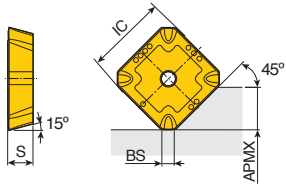
● : Standard items

E69-E70

SDKN 12/15

LIONMILL

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS		
12	12.7	3.18	6.5	2.00		
15	15.875	4.76	8.7	1.89		

Insert	Designation	Recommended machining conditions		Coated							Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10
	**SDKN 1203 MT-HPN**	1.5-6.0	0.25-0.10						●			
	1504 MT-HPN	1.5-8.0	0.25-0.10						●			
	**SDKN 1203 MT-GPN**	1.5-6.0	0.25-0.10						●			

● : Standard items

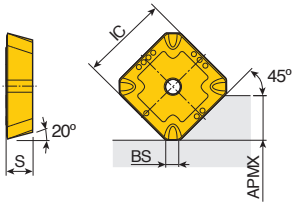
E83

ADVANCE MACHINING
TaeguTec Industry 4.0

SEKN 12/15

LIONMILL

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS		
12	12.7	3.18	6.5	2.08		
15	15.875	4.76	8.7	2.06		

Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10
	**SEKN 1203 AFTN-HPN**	1.5-6.0	0.25-0.10						●			
	1504 AFTN-HPN	1.5-8.0	0.25-0.10						●			

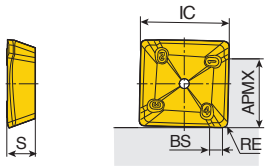


●: Standard items

SEKX 21

LIONMILL

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
21 PETR-M	21.85	7	17	2	1.2	

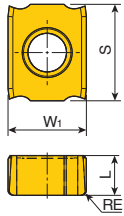
Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10
	**SEKX 2107 PETR-M**	5.5-13.0	0.22-0.10					●			●	



●: Standard items

TaeguTec

Inserts



Size	Dimension (mm)					
	S	W1	L	RE		
018	8	6.5	1.8	0.4		
023	8	6.5	2.3	0.4		
028	8	6.5	2.8	0.4		
033	8	6.5	3.3	0.4		

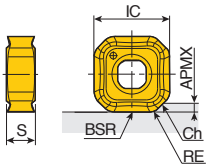
Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10
	**SLOT 018-04**	-	0.08-0.05	●		●					●	
	023-04	-	0.08-0.05	●		●					●	
	028-04	-	0.08-0.05	●		●					●	
	033-04	-	0.10-0.06	●		●					●	

E191-E192

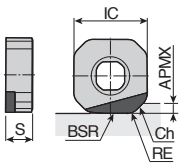
● : Standard items

SNEX(T) 12

Inserts



P-W



CBN

Size	Dimension (mm)					
	IC	S	APMX	RE	BSR	Ch
1204 P-W	12.7	4.76	1.0	2.0	450	2.5
1204-W	12.7	4.76	1.0	2.0	800	-
1205-W	12.7	5.56	1.0	2.0	450	2.5
1204R-CBN	12.7	4.76	1.0	0.8	250	1.5



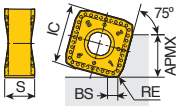
Insert	Designation	Recommended machining conditions		Cermet	CBN	Coated					Uncoated
		ap (mm)	Feed (mm/tooth)	CT3000	TB7015	TT9080	TT9030	TT7515	TT6080	TT2510	K10
	**SNEX 1204 P-W**	0.3-0.8	0.15-0.07						●	●	●
	**SNEX 1204-W**	0.3-0.8	0.15-0.07						●	●	
	**SNET 1205-W**	0.3-0.8	0.15-0.07	●		●			●		
	**SNEX 1204R-CBN**	0.3-0.8	0.12-0.08		●						

● : Standard items

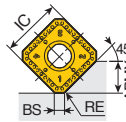
E59-E60

SNG(M)X 13

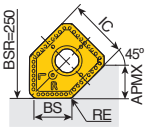
Inserts



ENTN/XTN



AN(T)N/XTN



W

Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
13 ENTN-M	13.5	7.0	9.5	2.2	0.4	
13 ANTN-M/ML/AL	13.5	6.8	7.0	2.2	0.4	
13 ANTR-MP	13.5	6.8	6.0	2.2	0.4	
13 ANTN-W	13.5	6.8	7.0	7.5	1.2	
13 XTN(75°)	13.5	6.8	9.6	1.4	0.4	
13 XTN(45°)	13.5	6.8	6.35	1.4	0.4	



Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**SNGX 1306 ENTN-M**	2.5-8.0	0.20-0.10	●		●		●		●	●		
	SNMX 1306 ENTN-M	2.5-8.0	0.20-0.10	●		●		●		●	●	●	
	**SNGX 1306 ANTN-M**	2.0-6.0	0.20-0.10	●		●		●	●		●		
	1306 ANTN-ML	2.0-6.0	0.25-0.13	●		●					●		
	SNMX 1306 ANTN-M	2.0-6.0	0.20-0.10	●		●		●	●	●	●	●	
	**SNGX 1306 ANN-AL**	2.0-6.0	0.35-0.10										●
	**SNMX 1306 ANTR-MP**	2.0-6.0	0.20-0.10	●		●		●			●		
	**SNMX 1306 XTN**	2.5-6.5	0.20-0.10	●		●			●	●	●	●	
	**SNGX 1306 ANTN-W**	0.2-1.0	0.20-0.10	●							●		

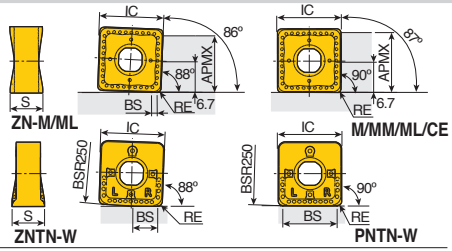
● : Standard items



SNGX 13

CHASE2QUAD

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
13	13.5	6.8-7.0	10-12	1.2-5.3	0.4-1.6	
13 -W	13.5	6.8	10-12	11.5	1.0	



Insert	Designation	Recommended machining conditions		Ceramic	Coated							Uncoated		
		ap (mm)	Feed (mm/tooth)	AS10	TT9080	TT9030	TT8080	TT8525B	TT7080	TT7515	TT6080	TT2510	K10	
	**SNGX 1306 ZN-M**	3.5-10.0	0.20-0.10		●		●		●	●	●			
	**SNGX 1306 ZN-ML**	3.5-10.0	0.25-0.13				●				●			
	1306C08 ZN-M	3.5-10.0	0.20-0.10		●				●	●	●			
	130608-MM	3.5-10.0	0.15-0.08				●							
	130612-MM	3.5-10.0	0.15-0.08								●			
	130616-MM	3.5-10.0	0.15-0.08				●		●					
	130608-ML	3.5-10.0	0.25-0.13							●	●			
	130612-ML	3.5-10.0	0.25-0.13							●				
	**SNGX 130608-M**	3.5-10.0	0.20-0.10		●				●	●	●			
	130612-M	3.5-10.0	0.20-0.10		●					●	●			
	130616-M	3.5-10.0	0.20-0.10		●		●	●	●	●	●			
	130620-M	3.5-10.0	0.20-0.10		●				●	●	●			
	**SNGX 130608-CE**	3.5-10.0	0.25-0.13	●										
	**SNGX 1306 ZNTN-W**	0.2-1.0	0.20-0.10		●						●			
	1306 PNTN-W	0.2-1.0	0.20-0.10		●						●			

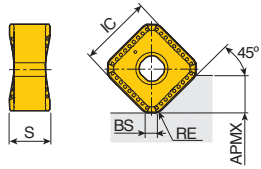
● : Standard items

E63-E64

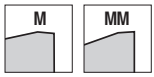
TaeguTec

SNM(H)X 16

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
SNMX 16	16.7	7.8	8.8	2.4	0.8	
SNHX 16	16.7	6.4	8.8	2.4	0.8	



Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10
	**SNMX 1607 ANTN-M**	2.5-7.5	0.25-0.13	●		●		●	●		●	
	**SNHX 1606 ANN-MM**	2.5-7.5	0.20-0.10						●		●	

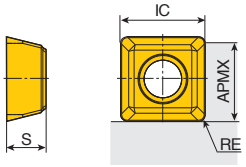
● : Standard items

E79-E81

SPMG/SPMT/XOMT

CHASEQUAD

Inserts



Size	Dimension (mm)					
	IC	S	APMX	RE		
06	6.16	2.56	5.6	0.4		
09	9.8	4.3	9.0	0.8		
11	11.5	4.8	10.7	0.8		
14	14.2	5.2	13.4	0.8		



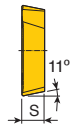
Insert	Designation	Recommended machining conditions		Cermet	Coated							Uncoated		
		ap (mm)	Feed (mm/tooth)	CT7000	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10	
	**SPMG 090404-EM**	2.5-7.5	0.15-0.08					●						
	090408-EM	2.5-7.5	0.15-0.08		●			●		●		●		
	110408-EM	3.0-8.5	0.16-0.09		●	●	●	●		●		●		
	140508-EM	4.0-11.0	0.18-0.10		●		●	●		●		●		
	**SPMT 090408-EM**	2.5-7.5	0.15-0.08		●	●		●		●		●		
	110408-EM	3.0-8.5	0.16-0.09		●	●	●	●		●		●		
	140508-EM	4.0-11.0	0.18-0.10		●		●	●	●	●		●		
	**XOMT 060204**	1.5-4.5	0.06-0.03			●		●						

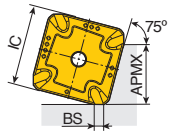
● : Standard items



SPKN 12/15

Inserts





Size	Dimension (mm)					
	IC	S	APMX	BS		
12	12.7	3.18	9.5	1.2-1.6		
15	15.875	4.76	12.5	1.4-1.6		

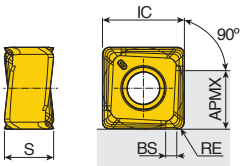
Insert	Designation	Recommended machining conditions		Coated								Uncoated		
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080		K10	
	**SPKN 1203 EDTR-HPN**	1.5-7.0	0.25-0.10						●					
	1504 EDTR-HPN	1.5-10.0	0.25-0.10						●					
	**SPKN 1203 EDR-HPN**	1.5-7.0	0.25-0.10				●				●			
	1504 EDR-HPN	1.5-10.0	0.25-0.10				●				●			

● : Standard items

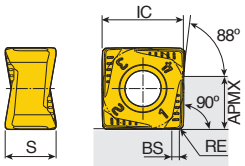
E66

SQK(H)U

Inserts

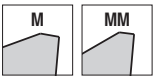


07



12

Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
07	7.0	4.16	5.0	0.9	0.8	
12	12.2	8.06	8.0	1.1	0.8	

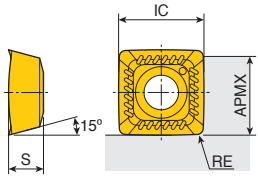


Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**SQKU 070308 PNR-M**	1.0-4.0	0.20-0.10	●		●					●	●	
	**SQKU 120608 PNR-M**	2.0-6.5	0.25-0.15	●				●			●	●	
	**SQHU 120608 PNR-MM**	2.0-6.5	0.25-0.15	●							●		

●: Standard items



Inserts



Size	Dimension (mm)					
	IC	S	APMX	RE		
114508	11	4.5	10	0.8		
114516	11	4.5	9	1.6		



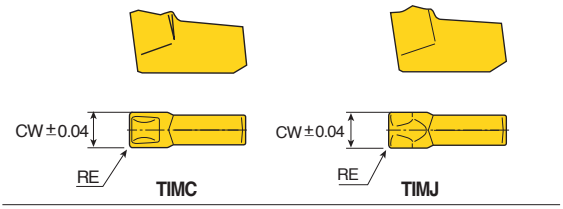
Insert	Designation	Recommended machining conditions		Coated								Uncoated		
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515		K10		
	**SVKT 114508-M**	10.0	0.15-0.04	●		●								
	**SVKT 114508-ML**	10.0	0.15-0.04	●		●								
	114516-ML	9.0	0.15-0.04	●		●								
	**SVKT 114508-L**	10.0	0.12-0.03	●		●								
	**SVHT 114508-L**	10.0	0.12-0.03	●		●								

●: Standard items

E178-E179

TIMC/J

Slotting inserts



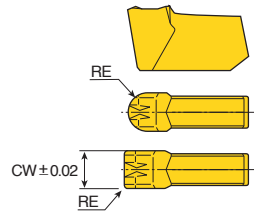
Size	Dimension (mm)					
	Seat size	CW	RE			
1.6	1	1.6	0.16			
2	2	2.2	0.20			
2.4	2	2.4	0.20			
3	4	3.1	0.20			
4	4	4.1	0.25			
4.8	4	4.8	0.28			

Insert	Designation		Recommended machining conditions		Coated								Uncoated
			ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT7220	TT7080	TT6030	TT5100	K10
	**TIMC**	**1.6**	-	0.12-0.04		●		●	●		●		●
		2	-	0.13-0.05		●		●	●		●		●
		2.4	-	0.15-0.06		●							
		3	-	0.18-0.06		●		●	●		●	●	
		4	-	0.20-0.08		●		●	●				
		4.8	-	0.20-0.08				●				●	
	**TIMJ**	**2**	-	0.12-0.04				●				●	
		2.4	-	0.13-0.05				●			●		●
		3	-	0.15-0.05				●				●	●
		4	-	0.18-0.05				●			●		●
		4.8	-	0.18-0.05				●			●		●

● : Standard items

TIPV

Slotting inserts



Size	Dimension (mm)			
	Seat size	CW	RE	
TIPV...E ...	3, 4	3.0-4.5	0.4-2.0	
TIPV 1.85-2.15	2	1.85-2.15	0.1-0.2	
TIPV 2.65-4.15	3, 4	2.65-4.15	0.15-0.20	

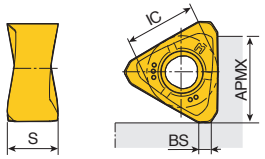
Insert	Designation		Recommended machining conditions		Coated								Uncoated
			ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT7220	TT7080	TT6030	TT5100	K10
	**TIPV**	**3.00E 0.40**	-	0.18-0.06							●	●	
		4.00E 0.40	-	0.20-0.08								●	
		4.50E 0.40	-	0.20-0.08									
		3.00E 1.50	-	0.18-0.06							●	●	
		4.00E 2.00	-	0.20-0.08							●	●	●
		1.85 0.10	-	0.13-0.05							●	●	
		2.00 0.20	-	0.13-0.05							●	●	
		2.15 0.15	-	0.13-0.05							●	●	●
		2.65 0.15	-	0.18-0.06								●	
		3.00 0.20	-	0.18-0.06								●	●
		3.18 0.20	-	0.18-0.06									●
		4.00 0.20	-	0.20-0.08								●	
		4.15 0.15	-	0.20-0.08								●	

● : Standard items

E204

TNM(G)X

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS		
18	11.65	8	13	1.4		
22	12.7	8	15	2.2		

SMR M

Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**TNMX 1806 PNTR-M**	1.0-11.0	0.15-0.07	●		●		●	●	●	●	●	
	**TNMX 1806 PNTR-SMR2**	2.7-11.0	0.20-0.10	●		●		●			●		
	**TNMX 1806 PNTR-SMR3**	2.7-11.0	0.20-0.10	●		●		●			●		
	**TNGX 2207 PNTN**	1.0-13.0	0.20-0.10	●		●		●	●		●		
	TNMX 2207 PNTN	1.0-13.0	0.20-0.10	●		●		●	●		●	●	


E45-E46

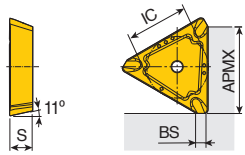
E113

E182-E183

● : Standard items

TPKN 22

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS		
22	12.7	4.76	17.6	1.7-1.8		

Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10
	**TPKN 2204 PDTR-HPN**	1.5-13.0	0.25-0.10						●			
	**TPKN 2204 PDR-HPN**	1.5-13.0	0.25-0.10				●				●	

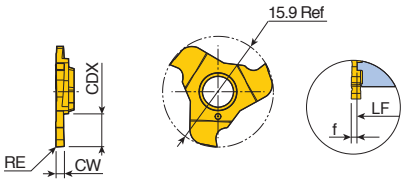
● : Standard items



TS16

TOPSLOT

Inserts



Size	Dimension (mm)			Size	Dimension (mm)		
	CW	RE	CDX		CW	RE	CDX
1.2	1.2	0.05	4.6	**3.0**	3.0	0.20	4.8
1.4	1.4	0.10	4.8	**3.25**	3.25	0.15	4.8
1.5	1.5	0.10	4.8	**4.0**	4.0	0.20	4.8
1.7	1.7	0.10	4.8	**4.25**	4.25	0.15	4.8
1.95	1.95	0.15	4.8	**5.0**	5.0	0.20	4.8
2.0	2.0	0.20	4.8	**5.25**	5.25	0.15	4.8
2.25	2.25	0.15	4.8	**6.0**	6.0	0.20	4.8
2.75	2.75	0.15	4.8				

Insert	Designation	Recommended machining conditions		f (mm)	Coated								Uncoated
		CW (mm)	Feed (mm/tooth)		TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10
	**TS16- 1.2-R0.05**	1.20	0.08-0.02	0.45		●							
	1.4-R0.1	1.40	0.10-0.02	0.45		●							
	1.5-R0.1	1.50	0.12-0.03	0.45		●							
	1.7-R0.1	1.70	0.12-0.03	0.45		●							
	1.95-R0.15	1.95	0.15-0.04	0.45		●							
	2.0-R0.2	2.00	0.15-0.04	0.45		●							
	2.25-R0.15	2.25	0.15-0.04	0.65		●							
	2.75-R0.15	2.75	0.20-0.04	1.35		●							
	3.0-R0.2	3.00	0.20-0.04	1.35		●							
	3.25-R0.15	3.25	0.20-0.04	1.35		●							
	4.0-R0.2	4.00	0.25-0.05	2.36		●							
	4.25-R0.15	4.25	0.25-0.05	0.96		●							
	5.0-R0.2	5.00	0.30-0.05	2.15		●							
	5.25-R0.15	5.25	0.30-0.05	2.15		●							
	6.0-R0.2	6.00	0.30-0.05	3.15		●							

● : Standard items

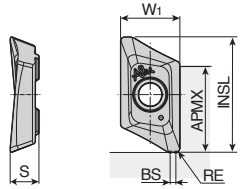

E190

E189

XEVT 16/22-AL

CHASEALU

Inserts



Size	Dimension (mm)					
	INSL	W1	S	APMX	BS	RE
16	18.3-22.2	11.2	5.1-5.5	14-16	0.6-1.5	0.4-5.0
22	22.4-28	13.6	6.8-7.4	18.5-21	1.2-1.7	0.5-6.4

Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10
	**XEVT 160504R-AL**	3.5-12.0	0.4-0.1									●
	160508R-AL	3.5-12.0	0.4-0.1									●
	160512R-AL	3.5-12.0	0.4-0.1									●
	160516R-AL	3.5-12.0	0.4-0.1									●
	160520R-AL	3.5-12.0	0.4-0.1									●
	160524R-AL	3.5-12.0	0.4-0.1									●
	160530R-AL	3.5-12.0	0.4-0.1									●
	160532R-AL	3.5-12.0	0.4-0.1									●
	160540R-AL	3.5-12.0	0.4-0.1									●
	160550R-AL	3.5-12.0	0.4-0.1									●
	220605R-AL	3.5-18.0	0.6-0.1									●
	220608R-AL	3.5-18.0	0.6-0.1									●
	220616R-AL	3.5-18.0	0.6-0.1									●
	220620R-AL	3.5-18.0	0.6-0.1									●
	220630R-AL	3.5-18.0	0.6-0.1									●
	220632R-AL	3.5-18.0	0.6-0.1									●
	220640R-AL	3.5-18.0	0.6-0.1									●
	220650R-AL	3.5-18.0	0.6-0.1									●
	220664R-AL	3.5-18.0	0.6-0.1									●

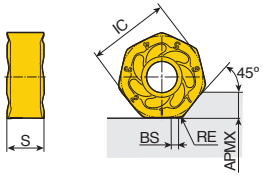
● : Standard items

E57 E134-E135

ADVANCE MACHINING
TaeguTec Industry 4.0

XNM(H)U 06

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
06(M, MM, ML)	13.7	6.2	3.5	1.0	1.0	
06-MT	13.7	6.0	4.2	-	0.8	
06-MLW	13.7	6.2	3.5	1.5	0.2	



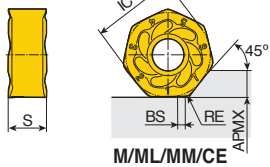
Insert	Designation	Recommended machining conditions		Ceramic	Coated							Uncoated
		ap (mm)	Feed (mm/tooth)	AS10	TT9080	TT9030	TT8080	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**XNMU 0605 ANR-M**	1.0-3.0	0.20-0.10		●				●		●		
	**XNHU 0605 ANN-MM**	1.0-3.5	0.20-0.10		●					●	●	●	
	**XNHU 0605 ANN-ML**	1.0-3.5	0.20-0.10		●		●				●		
	**XNMU 060508-MT**	1.0-4.2	0.30-0.10				●						
	**XNHU 0605 ANR-MLW**	0.3-1.0	0.15-0.08				●						

● : Standard items

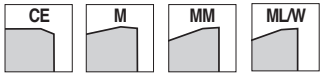


XNM(H)U 09

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS	RE	BSR
09	18.5	6.35-7.4	5.0	1.0	1.0	-
09-W	18.5	6.35	1.0	7.1	-	250



Insert	Designation	Recommended machining conditions		Ceramic	Coated							Uncoated
		ap (mm)	Feed (mm/tooth)	AS10	TT9080	TT8080	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**XNMU 0906 ANTR-M**	1.5-4.0	0.20-0.10		●	●	●	●	●	●	●	
	**XNMU 0906 ANTN-ML**	1.5-4.0	0.25-0.13		●	●	●	●				
	XNHU 0906 ANTN-ML	1.5-4.0	0.25-0.13		●					●		
	**XNHU 0906 ANTN-MM**	1.5-4.0	0.25-0.13		●		●		●	●	●	
	**XNHU 0906 ANTN-CE**	1.5-4.0	0.25-0.135	●								
	**XNHU 0906 ANTN-W**	0.1-1.0	0.20-0.10							●		

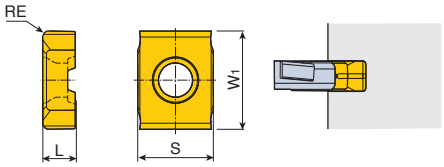
● : Standard items

E74-E76

ZNHT

TOPSLOT

Inserts



Size	Dimension (mm)					
	W1	S	L	RE		
018	10	7.5	1.8	0.2-0.8		
023	10	7.5	2.3	0.2-0.8		
028	10	7.5	2.8	0.2-0.8		
033	10	7.5	3.3	0.2-0.8		
038	13	10	3.8	0.4-0.8		
043	13	10	4.3	0.4-0.8		
048	13	10	4.8	0.4-0.8		
053	13	10	5.3	0.4-0.8		



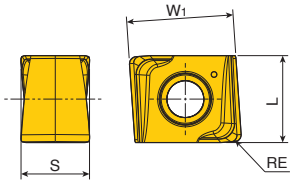
Insert	Designation	Recommended machining conditions		Coated								Uncoated		
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10		
	**ZNHT 018-04**	-	0.08-0.05	●		●					●			
	018-08	-	0.08-0.05	●		●								
	023-04	-	0.08-0.05	●		●					●			
	023-08	-	0.08-0.05	●		●								
	028-04	-	0.10-0.15	●		●					●			
	028-08	-	0.10-0.15	●		●								
	033-04	-	0.12-0.05	●		●					●			
	033-08	-	0.12-0.05	●		●								
	038-04	-	0.12-0.05	●		●					●			
	038-08	-	0.12-0.05	●		●					●			
	043-04	-	0.15-0.05	●		●					●			
	043-08	-	0.15-0.05	●		●					●			
	048-04	-	0.15-0.05	●		●					●			
	048-08	-	0.15-0.05	●		●					●			
	053-04	-	0.15-0.05	●		●					●			
	053-08	-	0.15-0.05	●		●					●			
	**ZNHT 018-04-ML**	-	0.08-0.05			●					●			
	023-04-ML	-	0.08-0.05			●					●			
	028-04-ML	-	0.08-0.05			●					●			
	033-04-ML	-	0.12-0.05			●					●			
	038-04-ML	-	0.12-0.05			●					●			
	043-04-ML	-	0.12-0.05			●					●			
	048-04-ML	-	0.12-0.05			●					●			
	053-04-ML	-	0.12-0.05			●					●			
	**ZNHT 018-02-AL**	-	0.35-0.10									●		
	023-02-AL	-	0.35-0.10									●		
	028-02-AL	-	0.35-0.10									●		
	033-02-AL	-	0.35-0.10									●		
	038-04-AL	-	0.35-0.10									●		
	043-04-AL	-	0.35-0.10									●		
	048-04-AL	-	0.35-0.10									●		
	053-04-AL	-	0.35-0.10									●		



● : Standard items

TaeguTec

Inserts



Size	Dimension (mm)					
	L	W1	S	RE		
080	7.6	10.7	6.36-6.49	0.8		
110	10.6	13.0	8.38-8.42	0.8		
140	14	13.0	9.59-9.65	0.8		





Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10
	**ZNHU 080-08**	-	0.16-0.08	●		●			●		●	
	110-08	-	0.20-0.10	●		●			●		●	
	140-08	-	0.21-0.11	●		●			●		●	
	**ZNHU 080-08-ML**	-	0.010-0.05	●		●					●	
	110-08-ML	-	0.12-0.06	●		●					●	
	140-08-ML	-	0.12-0.06	●		●						

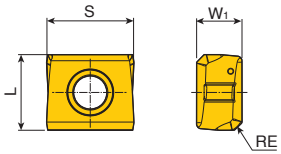




● : Standard items

Tailor-made Insert

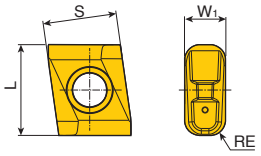
Tangential inserts

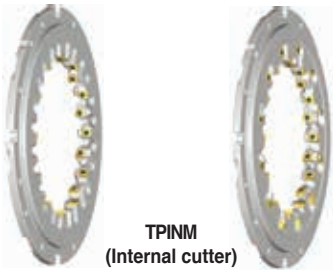




TTRC
(Slotting cutter)

Insert	Designation	Dimension (mm)				
		L	S	W1	RE	
	**LNC 1060-C**	10.0	11.5	6.0	chamfer	
	**LNC 137020-L**	13.6	11.6	6.7	2.0	
	**LNCX 136508 PNR-ML**	13.0	10.6	6.5	0.8	



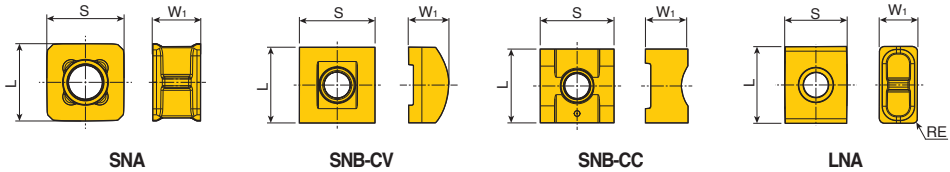


TPINM
(Internal cutter)

Insert	Designation	Dimension (mm)				
		L	S	W1	RE	
	**PMIN 120905-M**	12.0	9.7	5.4	2.0	
	PMIN 130907-M	13.5	9.7	7.0	2.0	
	PMIN 150907-M	15.0	9.9	7.0	2.0	
	PMIN 180907-M	18.0	9.7	7.0	2.0	

Tailor-made Insert

Tangential inserts



SNA SNB-CV SNB-CC LNA

Insert	Designation	Dimension (mm)				
		L	S	W1	RE	
	**SNA 1065-M**	10.5	10.5	6.5	-	
	SNA 1370-M	13.0	13.0	7.0	-	
	SNA 1680-M	16.0	16.0	8.0	-	
	**SNB 1375-CV**	13.0	13.0	7.5	-	
	SNB 1685-CV	16.0	16.0	8.5	-	
	**SNB 1375-CC**	13.0	13.0	7.5	-	
	SNB 1685-CC	16.0	16.0	8.5	-	
	**LNA 137008-M**	13.5	10.0	6.7	0.8	
	LNA 168008-M	16.5	14.0	8.0	0.8	

- CV: Convex, CC: Concave
- Various corner radii are available for SNB insert





TRMT
(Form profile cutter)

Recommended Cutting Conditions

Machining data for MAXI-SLOT

ISO	Material		Hardness HB	Vc(m/min)	Feed (mm/tooth)		
	Material	AISI/SAE/ASTM			TR13	TR15	TR17
P	Non-alloy steel	1020	130-180	120-200	0.04-0.12	0.05-0.15	0.06-0.15
	Low alloy steel	4030	260-300	200-300	0.04-0.12	0.05-0.15	0.06-0.15
	Low alloy steel	3135	HRC 35-40	80-120	0.02-0.06	0.03-0.12	0.04-0.12
	High alloy steel	H13	200-220	100-150	0.03-0.07	0.04-0.12	0.04-0.12
M	Martensitic stainless steel	420	200	100-150	0.02-0.06	0.04-0.12	0.04-0.12
	Austenitic stainless steel	304L	200	80-120	0.02-0.06	0.03-0.10	0.03-0.12
K	Gray cast iron	Class 40	250	150-200	0.04-0.12	0.05-0.20	0.05-0.20
	Malleable cast iron	Class 65 45 12	200	130-180	0.04-0.10	0.05-0.18	0.05-0.18
S	High temp. alloys	Inconel 718	HRC 36-40	20-30	0.015-0.10	0.02-0.12	0.02-0.12
		AMS R56400	HRC40-45	30-40	0.015-0.06	0.02-0.12	0.02-0.12

• For more information of material groups, see the materials & grades "material conversion table".

Steel Stainless steel Cast iron Nonferrous High temp. alloys Hardened steel

Machining data for CBN grade

ISO	Material	D.O.C. (mm)	Grade		
			TB7015		
			Cutting speed Vc(m/min)	Feed (mm/tooth)	Cutting edge
P	Bearing steel	< 2	180 - 220	0.05 - 0.25	Chamfer
	Ferrous powder metal	< 2	150 - 300	0.1 - 0.15	Chamfer
K	Grey cast iron HB 200 - 280	< 0.5	500 - 1500	0.1 - 0.3	Chamfer hone
		0.5 - 2.0	500 - 1100	0.1 - 0.25	Chamfer
	Compated graphite iron (CGI)	< 0.5	400 - 600	0.1 - 0.2	Hone
S	Co based > 35 HRC	0.5 - 2.0	150 - 200	0.05 - 0.15	Chamfer
	Ni based > 35 HRC		120 - 150	0.05 - 0.15	Chamfer
	Fe based > 35 HRC		60 - 120	0.05 - 0.15	Chamfer
	Cr based > 35 HRC		50 - 75	0.05 - 0.15	Chamfer
H	Hardened steels > 45 HRC	< 0.5	80 - 180	0.1 - 0.25	Chamfer
	Hardened cast iron	< 2	80 - 200	0.1 - 0.15	Chamfer

• For more information of material groups, see the materials & grades "material conversion table".

Steel Stainless steel Cast iron Nonferrous High temp. alloys Hardened steel

Recommended Cutting Conditions

Machining data

Cutting Speed :Vc(m/min)

ISO	Material		Condition	Tensile strength (N/mm^2)	Hardness HB	Material No.	Uncoated		
							K10	TT9080	TT9030
P	Non-alloy steel, cast steel, free cutting steel	< 0.25%C	Annealed	420	125	1		220-370	190-310
		>= 0.25%C	Annealed	650	190	2		180-310	160-260
		< 0.55%C	Quenched and tempered	850	250	3		115-195	105-185
		>= 0.55%C	Annealed	750	220	4		130-210	120-200
			Quenched and tempered	1000	300	5		115-175	95-160
	Low alloy steel and cast steel (less than 5% of alloying elements)		Annealed	600	200	6		175-265	160-250
			Quenched and tempered	930	275	7		130-215	120-200
				1000	300	8		105-185	95-175
				1200	350	9		95-160	80-150
	High alloy steel, cast steel and tool steel		Annealed	680	200	10		85-155	75-135
			Quenched and tempered	1100	325	11		75-135	65-120
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12		115-270	100-250
			Martensitic	820	240	13		100-230	80-200
			Austenitic	600	180	14		120-275	110-260
K	Gray cast iron (GG)		Ferritic		160	15		130-300	
			Pearlitic		250	16		120-280	
	Cast iron nodular (GGG)		Ferritic		180	17		110-220	
			Pearlitic		260	18		100-200	
	Malleable cast iron		Ferritic		130	19		150-250	
			Pearlitic		230	20		100-250	
N	Aluminum - wrought alloy		Not cureable		60	21	550-700		
			Cured		100	22	600-750		
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23	800-900		
			Cured		90	24	650-800		
		>12% Si	High temp.		130	25	250-320		
	Copper alloys	>1% Pb	Free cutting		110	26	300-400		
			Brass		90	27	300-400		
			Electrolitic copper		100	28	210-280		
	Non-metallic		Duroplastics, fiber plastics			29	150-250		
			Hard rubber			30	150-250		
S	High temp. alloys	Fe based	Annealed		200	31		40-80	
			Cured		280	32		30-60	
		Ni or Co based	Annealed		250	33		35-70	
			Cured		350	34		30-60	
			Cast		320	35		35-65	
	Titanium, Ti alloys			Rm 400		36		90-130	
			Alpha+beta alloys cured	Rm 1050		37		35-70	
H	Hardened steel		Hardened		55HRC	38		40-75	40-60
			Hardened		60HRC	39		30-55	30-55
	Chilled cast iron		Cast		400	40		70-105	60-100
	Cast iron nodular		Hardened		55HRC	41		50-65	40-60

• For more information of material groups, see the materials & grades "material conversion table"

Steel Stainless steel Cast iron Nonferrous High temp. alloys Hardened steel

Recommended Cutting Conditions

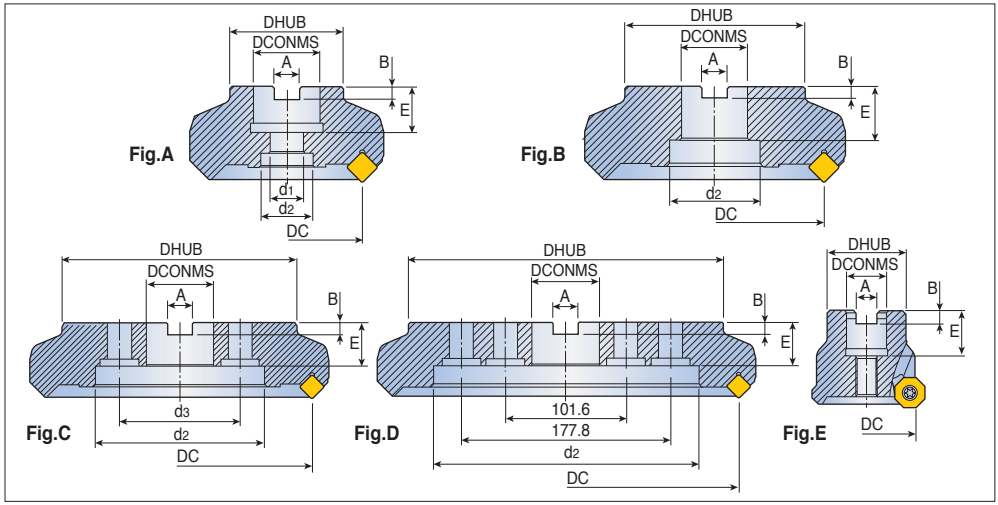
Machining data

Cutting speed :Vc(m/min)

Coated									Ceramic				Cermet
TT7080	TT8525B	TT8080	TT8020	TT6080	TT7515	TT2510	TT5515	TT5525	AS10	AS20	TC3020	TC3030	CT7000
250-410	160-270	170-250	150-210				260-280	150-210					270-510
200-380	140-210	130-220	120-200				200-230	120-200					230-450
140-230	90-160	90-170	70-140				160-220	70-140					150-370
160-250	100-170	100-190	90-150				160-220	90-150					210-430
135-195	80-140	70-160	60-130				140-180	60-130					150-280
190-290	140-200	150-220	130-170				160-220	130-170					150-285
150-240	90-160	110-190	70-150				120-180	70-150					100-190
135-225	70-150	80-160	60-110				130-180	60-110					90-170
120-190	60-110	70-120	50-100				140-180	50-100					80-130
100-150	60-90	70-110	50-80				130-180	60-100					100-170
90-140	50-90	60-100	40-80				70-120	60-120					80-120
		90-200	75-170				80-150	75-170					
		70-160	60-130				60-140	60-130					
		100-210	80-180				60-120	80-180					
				180-350	200-390	250-430	80-260		400-900				
				140-280	160-300	190-270	130-240		250-600				
				115-230	130-250		150-270		350-800				
				100-200	110-210		90-270		250-600				
				190-310	210-330		150-270		360-540				
				120-260	130-280		140-240		300-440				
		30-65					20-40	30-55		500-900			
		20-45					20-30	20-45		500-900			
		25-50					20-30	25-50		500-900	600-1200	600-1200	
		20-40					20-30	20-40		500-900	600-1200	600-1200	
		20-45					30-70	20-45		500-900	600-1200	600-1200	
		60-100					30-70	50-90		500-900			
		25-55					30-70	25-55		500-900			
				60-90		70-180							
				50-90		50-130							
				60-100		60-120	60-80						
				60-80		70-95	30-50						

Mounting Reference

Arbor style



Dimension (mm)										Fig.	Arbor
DC	DCONMS	A	B	E	DHUB		d_1	d_2	d_3		
					For mold & die	For general					
32	16	8.4	5.6	20	30	-	-	-	-	E	SEM16
32	16	8.4	5.6	20	30	-	9	13.5	-	A	SEM16
40	16	8.4	5.6	20	38	-	9	13.5	-	A	SEM16
40	22	10.4	6.3	22	38	-	11	17	-	A	SEM22
50	22	10.4	6.3	22	40	45	11	17	-	A	SEM22
63	22	10.4	6.3	22	47	-	11	17	-	A	SEM22
80	25.4	9.526	6	26	-	70	13	20	-	A	FMA25.4
80	27	12.4	7	28	58	70	13	22	-	A	SEM27
100	31.75	12.7	8	32	-	80	18	26	-	A	FMA31.75
100	31.75	12.7	8	32	-	80	-	46	-	B	FMA31.75
100	32	14.4	8	26	66	85	18	26	-	A	SEM32
100	32	14.4	8	26	66	85	-	46	-	B	SEM32
125	38.1	15.875	10	38	80	-	-	56	-	B	FMA38.1
125	40	16.4	9	32	85	-	22	32	-	A	SEM40
125	40	16.4	9	32	85	-	-	56	-	B	SEM40
160	40	16.4	9	32	110	-	-	90	66.7	C	FM40
160	50.8	19.05	11	38	100	-	-	72	-	B	FMA50.8
200	47.625	25.4	14	38	130	-	-	132	101.6	C	FMA47.625
200	60	25.7	14	40	130	-	-	132	101.6	C	FM60
250	47.625	25.4	14	38	160	-	-	150	101.6	C	FMA47.625
250	60	25.7	14	40	160	-	-	150	101.6	C	FM60
315	47.625	25.4	14	38	220	-	-	224	-	D	-
315	60	25.7	14	40	220	-	-	220	-	D	-

• For Face Mill arbors, please refer to TaeguTec tooling system(part G)

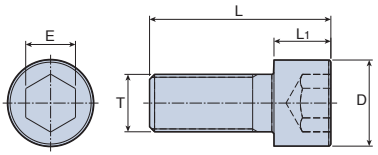
Mounting Reference

Mounting bolt

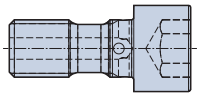
SH type

Designation	Dimension (mm)					Cutter size
	D	L	L_1	T	E	
SH M8x1.25x25(-C)	13	33	8	8	6	32,40
SH M8x1.25x30(-C)	13	38	8	8	6	32,40
SH M8x1.25x35(-C)	13	43	8	8	6	32,40
SH M10x1.5x30(-C)	16	40	10	10	8	50, 63
SH M12x1.75x35(-C)	18	47	12	12	10	80
SH M16x2x35(-C)	24	51	16	16	14	100
SH M20x2.5x40(-C)	30	60	20	20	17	125

• "-C": Bolt with hole for internal coolant



SH

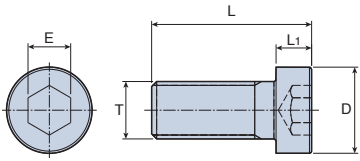


SH-C

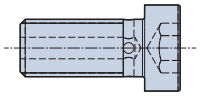
LH type

Description	Dimension (mm)					Cutter size
	D	L	L_1	T	E	
LH M10x1.5x25(-C)	16	31.5	6.5	10	8	50, 63
LH M12x1.75x30(-C)	18	36.9	6.9	12	8	80
LH M16x2x35(-C)	24	45	10	16	12	100

• "-C": Bolt with hole for internal coolant



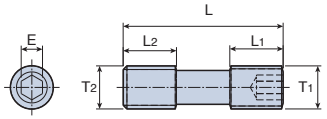
LH



LH-C

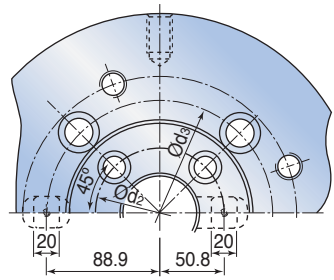
KTB, TCS type

Description	Dimension (mm)					
	L	L_1	L_2	T_1	T_2	E
KTB 32B	30	10	10	M8X1.0	M8X1.25	4
TCS10-40	40	10	15	M10X1.25	M10X1.5	5



KTB, TSC

Quick change cutter adapter



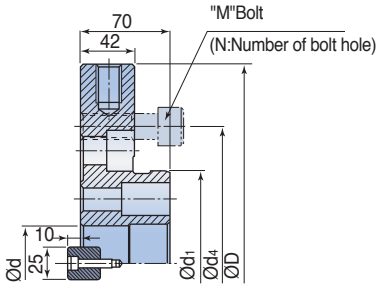
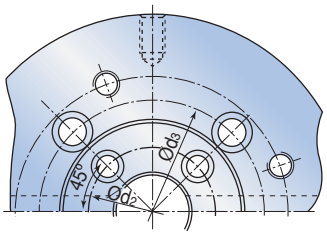


Fig.1



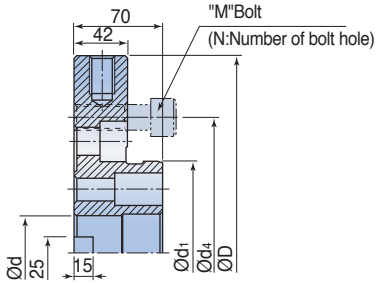


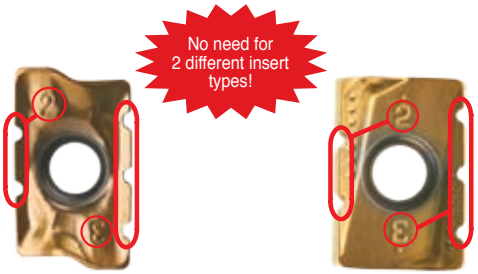
Fig.2

Designation	Dimension (mm)								Weight (Kg)
	D	d	d_1	d_2	d_3	d_4	M	N	
QA 08 K/M	198	47.625	63.5	101.6	-	114.3	M16x40	4	10
QA 10 K/M	248	60	133.35	101.6	-	177.8	M16x50	4	15
QA 12 K/M	313	60	146.05	101.6	177.8	215.9	M20x50	4	19.7
QA 14 K/M	353	60	215.9	101.6	177.8	260.4	M20x50	6	24
QA 16 K/M	398	60	254.0	101.6	177.8	304.8	M20x50	6	29

• K: Adapter with setting key (Fig.1)
M: Adapter without setting key (Fig.2)

How to use splitter

- 3 splitting grooves on one cutting edge and 2 splitting grooves on the opposite side

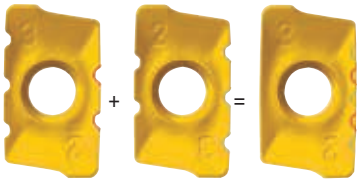


- Full proof configuration-inserts have metal color appearance only on the 3 groove side for simplified mounting

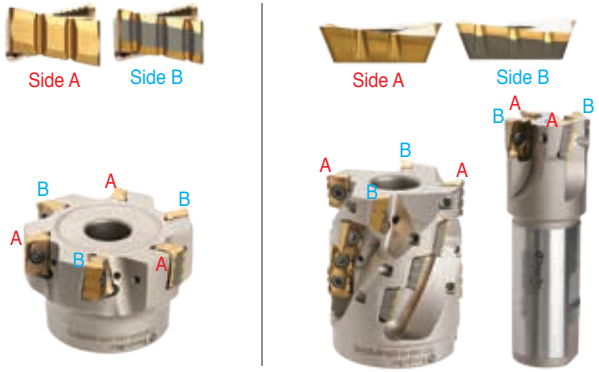


Notice: When insert mounting, ensure they are mounted in a staggered formation
i.e. 1st tooth-2 groove side; 2nd tooth-3 groove side and repeat action for the remaining teeth

- Both cutting edges split chip to small pieces for cutting load reduction and create complete cutting edge when combined.

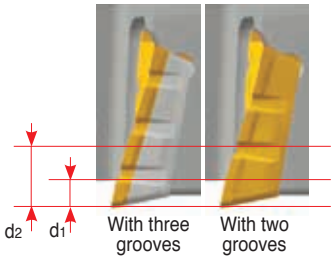


- For optimum machining efficiency, use even numbered flute type cutters

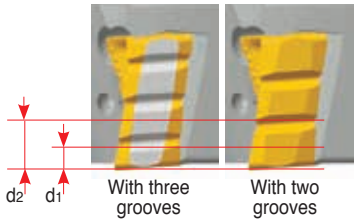


Also applicable to odd numbered flute type cutters

■ The splitter inserts effective in axial depth of cuts ≥ d_1

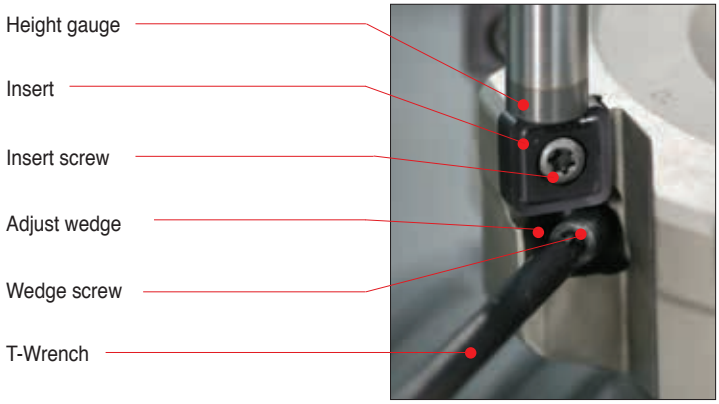


Depth of cut	APKT 17	APKT 12
d_1	3mm	2.4mm
d_2	6.5mm	5.2mm



Depth of cut	ANHX 16
d_1	2.5mm
d_2	6mm

Setting instructions



❶ Move the adjust wedge to its bottom-most position by rotating the wedge screw clockwise.



※Please avoid using too much force.

❷ Mount new cutting edge of insert. Make sure that the insert pocket is thoroughly cleaned before mounting insert.



※Please fix the insert screw completely as readjustment is not expected once it is done.

❸ Measure the Runout of the cutter when all inserts are mounted and select the highest insert as a reference.



※Please ensure that insert edge does not get damaged during setting.
Use optimum dial pressure only.

❹ Set the height of cutter, raising the reference insert by turning the wedge screw counter clockwise.



※Increase height by 0.01mm at least from the highest insert.

❺ -1 Adjust axial Runout of the remaining inserts with the same process as used with the reference insert.



※Please note that max adjustment height should not exceed 0.1mm(.004")

❺ -2 Adjust Runout in the range of 0.005mm rotating the wrench gradually.



❺ -3 If it is beyond the acceptable range, please reset it with the orderof ❶-❷-❺

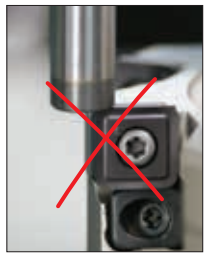


❻ Runout adjustment is completed.(you don't have to clamp the insert screw anymore once it is fixed.)



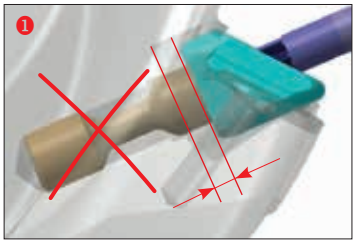
Gauge user guide

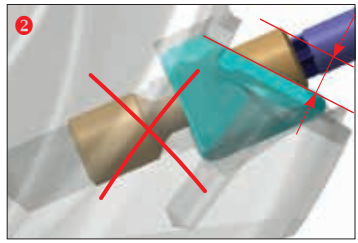


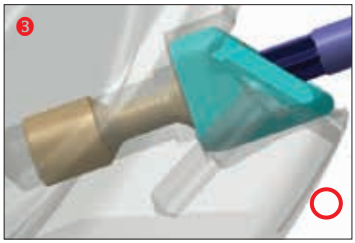



Special precautions

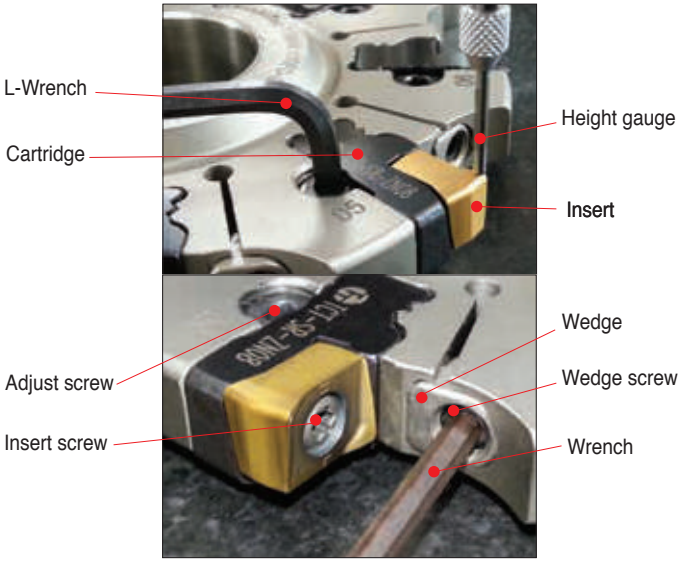
- While loading a new insert corner, ensure that the adjust wedge is in the bottom-most position Bottom out the adjust wedge completely before unclamping the insert from cutter
- Clean the insert and pocket thoroughly before mounting fresh insert /corner
- While assembling adjust wedge onto cutter body, please ensure that the adjust wedge is tightened until it reaches the bottom





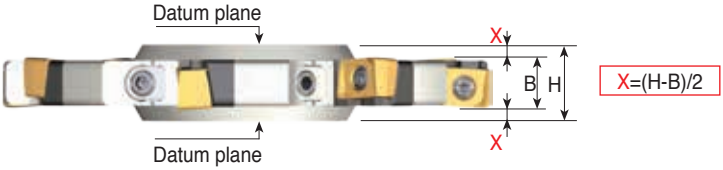


TOPSLOT component names



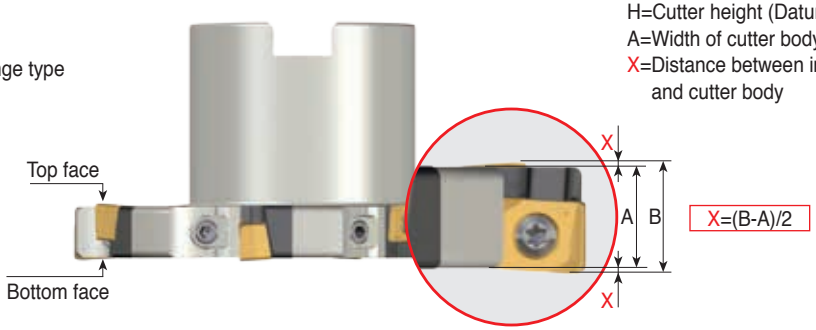
TOPSLOT setup instructions

■ Disk type



B=Cutting width (Target width)
H=Cutter height (Datum)
A=Width of cutter body
X=Distance between insert and cutter body

■ Flange type



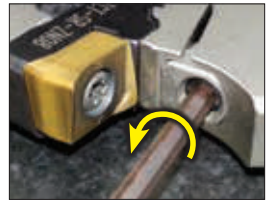
Setting procedure

Disk type

❶ Index unused inserts firmly onto the cartridge.



❷ Unfasten the wedge screw 1 turn counter-clockwise.



❸ After fastening the wedge around 80%, adjust the cartridge to the desired "X" value after setting the datum zero point.



❹ Follow the same method about other cartridges. (the same as opposite side)

❺ After setting all cartridges, sequentially fasten the wedge 100% over two or three times.

- When adjusting cartridge to the "X" value, set the location of cartridge higher than "X" value and then adjust the cartridge to the "X" value.
- Clockwise rotation : cartridge descends.
- Counter-clockwise rotation : cartridge ascends.

Flange type

❶ For setting of bottom face, repeat disk type steps 1-4. (The datum is bottom plane of flange type cutter.)



❷ For top face set-up, the use of setting plate is mandatory and the height gauge must be reset to '0' for each insert.



❸ Put the cutter bottom face on the setting plate and unfasten wedge screw 1 turn counter-clockwise



❹ After fastening the wedge around 80%, adjust the cartridge to the desired (A+X) value.



❺ Follow the same method about other cartridges.

❻ After setting all cartridges, sequentially fasten the wedge 100% over two or three times.

- When adjusting cartridge to the "X" value, set the location of cartridge higher than "X" value and then adjust the cartridge to the "X" value.
- Clockwise rotation: cartridge descends.
- Counter-clockwise rotation: cartridge ascends.

Setting notice

■ Important set-up points

- All adjustments must be done on a plane, flat surface.
- For improved accuracy, remove any foreign substances from the insert and insert pocket surfaces before clamping.
- During reassembly wedges and wedge screws, you must apply lubricant of the friction surface. (Fig.1)
- "X" value must be equal for both top and bottom faces when adjusting the width of slot. (Fig.2)
- Width of cut must be adjusted within the range of the laser marked on the cutter. (Fig.3)
  Ex) WIDTH 12-13 / WIDTH 20-23
- When adjusting cartridge to the "X" value, set the location of cartridge higher than "X" value and then adjust the cartridge to the "X" value.



Fig.1 Lubricant



Fig.2 "X" setting



Fig.3 WIDTH

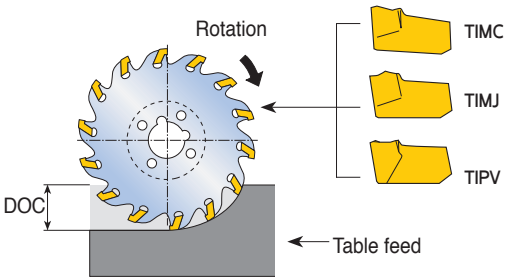
Narrow width slotting cutters

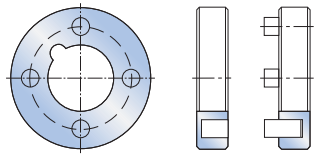


- Metric cutting diameters:
  75mm, 100mm, 125mm, 160mm, 250mm
- Cutting width ranges: 1.6mm - 6.35mm
- Geometry: Positive Rake
- Applications: Slotting and sawing
- Materials: Carbon steels, alloy steels, stainless steels, cast iron, aluminum and exotics

■ Features / Benefits of slotting cutters
- Narrow width applications to 1.6mm
- Simple easy-to-mount inserts
- Secure insert retention self-positioning insert stopper for repeatability
- Drive flange mounting for extra stability
- Minimal radial runout
- Efficient chip evacuation
- Reduced cutting forces
- Improved tool life
- Economical

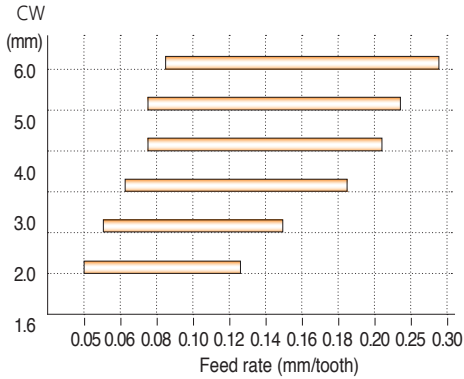
Recommended feed rates for - TSC slotting cutters

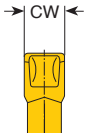




Drive flange set recommended for style 2 cutters

Recommended feed rates (Based on insert width)





Feed rates are for radial
D.O.C. =>1/4 the cutter diameter
For radial DOC <1/4 the cutter diameter
increase feed rates by the following %

DOC/Cutter diameter	1/4	1/6	1/8	1/10	1/20
Increase feed rate by ->	0%	15%	30%	45%	45%

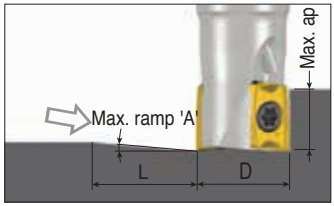
- Cutter entry
  Climb milling enters the workpiece with a thick chip and exits with a thin chip. Honed inserts are recommended.
  Conventional milling enters the workpiece with a thin chip and exits with a thick chip.
  Sharp inserts are recommended. Climb milling should be used whenever possible,
  especially when replacing high speed steel slotting cutters. On machines with backlash eliminators,
  climb milling is preferred.

- Cutter mounting
  The use of drive flange sets are recommended to prevent denting of arbor drive keys and to provide added stability during increased metal removal rates.

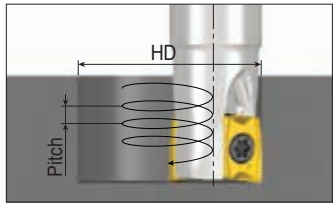
- Insert mounting
  Manually place insert in pocket and seat in place by using a wooden or plastic hammer.
  This will ensure self positioning for insert repeatability and minimal radial runout.
  Pockets must be clean and free of debris prior to installation.

Ramping Data

Straight ramping



Helical ramping



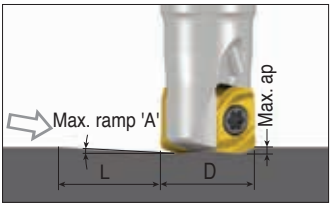
CVK(H)T 05: R0.2

(unit: mm)

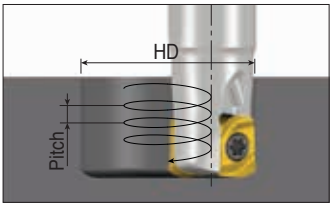
Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø6	2.5	5.0	112	8		0.2
					12	0.7
Ø8	2.1	5.0	136	12		0.4
					16	0.8
Ø9	1.7	5.0	164	14		0.4
					18	0.7
Ø10	1.7	5.0	169	16		0.5
					20	0.8
Ø11	1.3	5.0	212	18		0.4
					22	0.7
Ø12	1.3	5.0	220	20		0.5
					24	0.7
Ø13	1.1	5.0	249	22		0.5
					26	0.7
Ø14	1.0	5.0	273	24		0.5
					28	0.7
Ø16	0.9	5	302	28		0.5
					32	0.7
Ø20	0.7	5	382	36		0.6
					40	0.7

Ramping Data

Straight ramping



Helical ramping

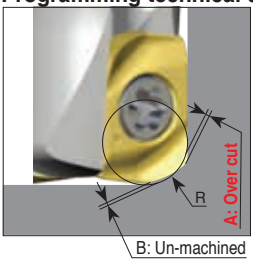


CVKT 05-HF

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (Aº)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø6	0.20	0.5	143	8		0.0
					12	0.1
Ø8	0.45	0.5	64	12		0.1
					16	0.2
Ø9	0.55	0.5	52	14		0.1
					18	0.2
Ø10	0.30	0.5	96	16		0.1
					20	0.1
Ø11	0.35	0.5	82	18		0.1
					22	0.2
Ø12	0.70	0.5	41	20		0.3
					24	0.4
Ø13	0.75	0.5	38	22		0.3
					26	0.5
Ø14	0.85	0.5	34	24		0.4
					28	0.5
Ø16	0.65	0.5	44	28		0.4
					32	0.5
Ø20	0.50	0.5	57	36		0.4
					40	0.5

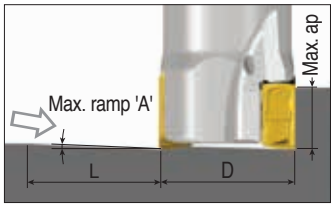
Programming technical data



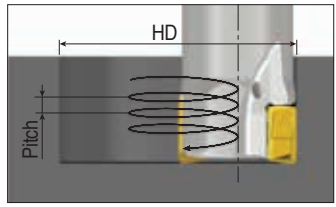
	R Program	A Over cut	B Un-machined
CVKT 05-HF	0.8	0	0.21
	0.9	0	0.18
	1.0	0.02	0.14

: Recommended program 'R'

Straight ramping



Helical ramping



LPK(H)U 05

(unit: mm)

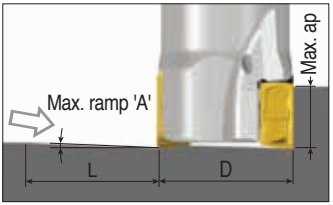
Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø10	1.8	4.6	142	16.8		0.6
					20	0.9
Ø11	1.6	4.6	160	18.8		0.6
					22	0.8
Ø12	1.5	4.6	176	20.8		0.6
					24	0.8
Ø13	1.3	4.6	195	22.8		0.6
					26	0.8
Ø16	1.0	4.6	251	28.8		0.6
					32	0.8
Ø20	0.8	4.6	330	36.8		0.6
					40	0.7
Ø25	0.6	4.6	439	46.8		0.6
					50	0.7
Ø32	0.4	4.6	586	60.8		0.6
					64	0.7

LPK(H)U 09

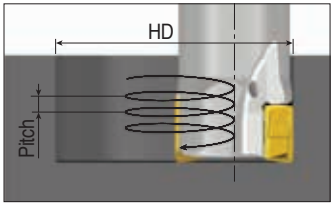
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø20	1.4	8.3	328	33		1.0
					40	1.5
Ø25	1.1	8.3	432	43		1.0
					50	1.5
Ø32	0.8	8.3	594	57		1.1
					64	1.4
Ø40	0.6	8.3	793	73		1.0
					80	1.3
Ø50	0.4	8.3	1057	93		1.0
					100	1.2
Ø63	0.3	8.3	1359	119		1.0
					126	1.2

Straight ramping



Helical ramping

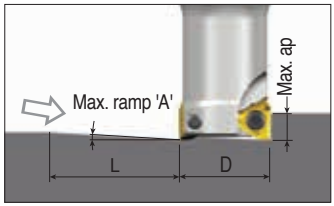


LPKU 14

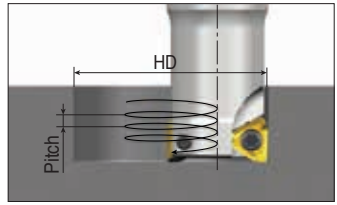
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (Aº)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø40	0.9	12.5	754	69		1.5
					80	2.0
Ø50	0.7	12.5	1023	89		1.5
					100	1.9
Ø63	0.5	12.5	1302	115		1.5
					126	1.9
Ø80	0.4	12.5	1790	149		1.5
					160	1.7
Ø100	0.3	12.5	2387	189		1.4
					200	1.6
Ø125	0.2	12.5	2865	239		1.5
					250	1.7
Ø160	0.2	12.5	3581	309		1.6
					320	1.7
Ø200	0.1	12.5	4775	389		1.5
					400	1.6

Straight ramping



Helical ramping



3PKT 04

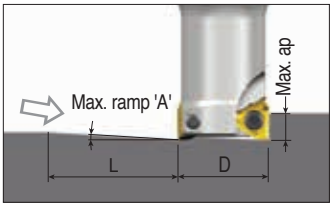
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø8	2.1	3.5	95	13.2		0.6
					16	0.9
Ø10	2.2	3.5	91	17.2		0.8
					20	1.2
Ø11	3.6	3.5	56	19.2		1.6
					22	2.1
Ø12	3.3	3.5	61	21.2		1.6
					24	2.1
Ø13	2.5	3.5	80	23.2		1.4
					26	1.7
Ø14	2.2	3.5	91	25.2		1.3
					28	1.6
Ø16	1.6	3.5	125	29.2		1.1
					32	1.4

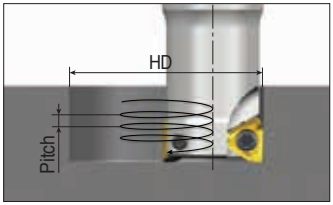
Ramping Data

MILLRUSH

Straight ramping



Helical ramping



3PK(H)T 06

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø12	3.7	4.7	73	19.5		1.3
					24	2.1
Ø14	2.8	4.7	96	23.5		1.2
					28	1.8
Ø16	2.3	4.7	117	27.5		1.2
					32	1.7
Ø17	2.0	4.7	135	29.5		1.2
					34	1.6
Ø18	2.0	4.7	135	31.5		1.3
					36	1.7
Ø20	1.6	4.7	168	35.5		1.2
					40	1.5
Ø21	1.5	4.7	180	37.5		1.2
					42	1.5
Ø22	1.5	4.7	180	39.5		1.2
					44	1.5
Ø25	1.5	4.7	180	45.5		1.4
					50	1.7
Ø30	1.2	4.7	224	55.5		1.4
					60	1.7
Ø32	1.2	4.7	224	59.5		1.5
					64	1.8
Ø35	1.0	4.7	269	65.5		1.4
					70	1.6
Ø40	0.7	4.7	385	75.5		1.2
					80	1.3

3PK(H)T 10

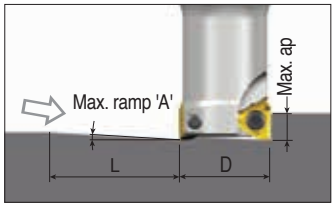
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø16	7.0	7.0	57	24.7		2.8
					32	5.2
Ø20	3.3	7.0	121	33.9		2.1
					40	3.1
Ø21	3.2	7.0	125	35.9		2.2
					42	3.1
Ø22	3.2	7.0	125	37.9		2.4
					44	3.3
Ø25	2.8	7.0	143	43.5		2.4
					50	3.3
Ø26	2.6	7.0	154	45.9		2.4
					52	3.1
Ø30	2.0	7.0	201	53.9		2.2
					60	2.8
Ø32	1.8	7.0	223	57.5		2.1
					64	2.7
Ø33	1.7	7.0	236	59.9		2.1
					66	2.6
Ø40	1.3	7.0	309	73.7		2.0
					80	2.4
Ø50	1.0	7.0	401	93.7		2.0
					100	2.3
Ø63	0.8	7.0	502	119.7		2.1
					126	2.3

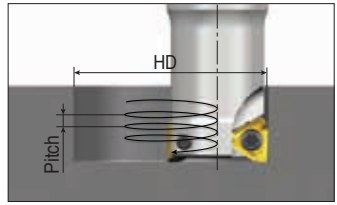
Ramping Data

MILLRUSH

Straight ramping



Helical ramping



3PK(H)T 15

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø32	3.2	11.0	197	53.5		3.2
					64	4.8
Ø33	3.1	11.0	203	55.5		3.3
					66	4.8
Ø35	3.1	11.0	203	59.5		3.5
					70	5.1
Ø40	2.0	11.0	315	70.1		2.8
					80	3.7
Ø50	1.5	11.0	420	90.1		2.8
					100	3.5
Ø63	1.1	11.0	573	116.1		2.7
					126	3.2
Ø80	0.8	11.0	788	150.3		2.6
					160	3.0
Ø100	0.6	11.0	1051	190.5		2.5
					200	2.8
Ø125	0.5	11.0	1261	240.3		2.7
					250	2.9
Ø160	0.3	11.0	2102	310.3		2.1
					320	2.2
Ø200	0.2	11.0	3153	390.3		1.8
					400	1.9

3PK(H)T 19

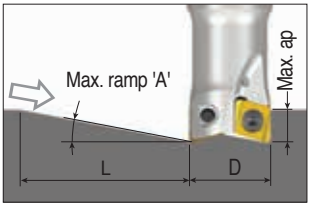
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø40	3.6	15.0	239	66.7		4.5
					80	6.7
Ø50	2.2	15.0	391	87.9		3.9
					100	5.1
Ø63	1.7	15.0	506	113.9		4
					126	5
Ø80	1.3	15.0	661	147.9		4.1
					160	4.8
Ø100	1.0	15.0	860	187.9		4.1
					200	4.7
Ø125	0.8	15.0	1075	237.9		4.2
					250	4.7
Ø160	0.6	15.0	1433	307.9		4.1
					320	4.5
Ø200	0.4	15.0	2150	387.9		3.5
					400	3.7
Ø250	0.3	15.0	2866	487.9		3.3
					500	3.5

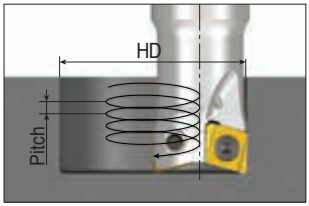
Ramping Data

CHASE4MILL

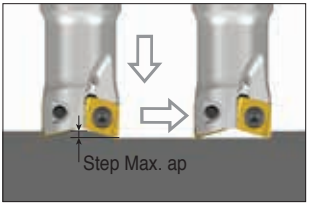
Straight ramping



Helical ramping



Step down



4NKT 04: R0.2

(unit: mm)

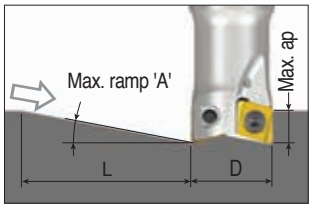
Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø8	4.2	3.5	48	9.9	16	0.4 3.1	0.4
Ø10	4.6	3.5	44	13.9	20	0.8 2.1	0.6
Ø11	5.2	3.5	38	15.9	22	1.2 2.7	0.7
Ø12	4.8	3.5	42	17.9	24	1.3 2.7	0.8
Ø13	5.1	3.5	39	19.9	26	1.6 3.1	0.8
Ø16	4.4	3.5	46	25.9	32	2.0 3.3	1.0
Ø20	3.3	3.5	61	33.9	40	2.1 3.1	1.0
Ø25	2.5	3.5	80	43.9	50	2.2 2.9	1.0
Ø32	1.9	3.5	106	57.9	64	2.3 2.8	1.0
Ø40	1.4	3.5	138	73.9	80	2.3 2.7	1.0

4NKT 04: R0.4

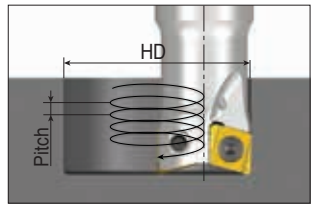
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø8	3.7	3.5	54	9.9	16	0.3 2.8	0.4
Ø10	4.2	3.5	48	13.9	20	0.8 2.0	0.5
Ø11	4.8	3.5	42	15.9	22	1.1 2.5	0.6
Ø12	4.5	3.5	44	17.9	24	1.2 2.5	0.7
Ø13	4.7	3.5	43	19.9	26	1.5 2.9	0.8
Ø16	4.1	3.5	49	25.9	32	1.9 3.1	0.9
Ø20	3.1	3.5	65	33.9	40	2.0 2.9	0.9
Ø25	2.3	3.5	85	43.9	50	2.1 2.7	0.9
Ø32	1.7	3.5	115	57.9	64	2.1 2.6	0.9
Ø40	1.3	3.5	149	73.9	80	2.1 2.5	0.9

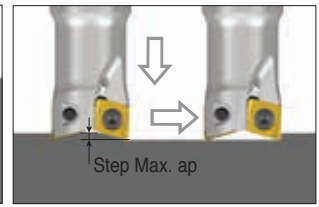
Straight ramping



Helical ramping



Step down



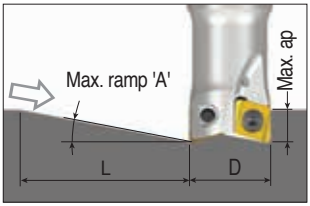
4NKT 04: R0.8 (unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø8	2.2	3.5	91	9.9		0.2	0.2
					16	1.6	
Ø10	3.0	3.5	67	13.9		0.5	0.4
					20	1.4	
Ø11	3.7	3.5	54	15.9		0.8	0.5
					22	1.9	
Ø12	3.5	3.5	57	17.9		1.0	0.5
					24	2.0	
Ø13	3.9	3.5	51	19.9		1.3	0.6
					26	2.4	
Ø16	3.5	3.5	57	25.9		1.6	0.7
					32	2.6	
Ø20	2.6	3.5	77	33.9		1.7	0.7
					40	2.4	
Ø25	1.9	3.5	103	43.9		1.7	0.7
					50	2.3	
Ø32	1.5	3.5	134	57.9		1.8	0.7
					64	2.2	
Ø40	1.1	3.5	174	73.9		1.8	0.7
					80	2.1	

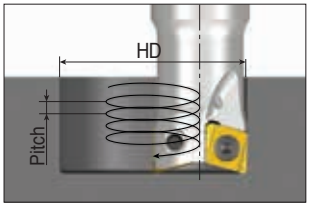
Ramping Data

CHASE4MILL

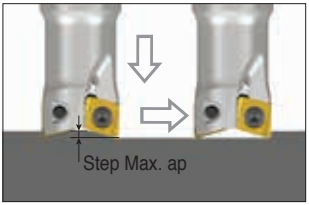
Straight ramping



Helical ramping



Step down

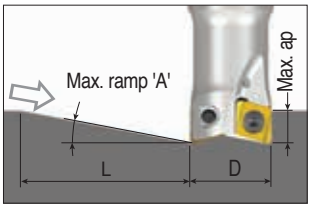


4NKT 06: R0.4

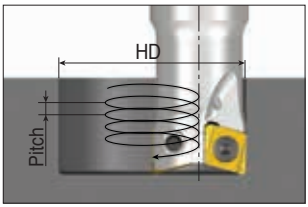
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	4.3	6.0	80	21.5		1.1	0.9
					32	3.2	
Ø17	4.3	6.0	80	23.5		1.3	1.0
					34	3.4	
Ø18	4.7	6.0	73	25.5		1.6	1.1
					36	3.9	
Ø20	4.9	6.0	70	29.5		2.2	1.3
					40	4.6	
Ø21	5.0	6.0	69	31.5		2.5	1.4
					42	4.9	
Ø25	4.9	6.0	70	39.5		3.3	1.6
					50	5.7	
Ø26	4.6	6.0	75	41.5		3.3	1.6
					52	5.6	
Ø32	3.5	6.0	98	53.5		3.5	1.7
					64	5.2	
Ø33	3.4	6.0	101	55.5		3.6	1.7
					66	5.2	
Ø35	3.1	6.0	111	59.5		3.5	1.7
					70	5.1	
Ø36	3.0	6.0	115	61.5		3.6	1.7
					72	5.0	
Ø38	2.8	6.0	123	65.5		3.6	1.7
					76	5.0	
Ø40	2.6	6.0	130	69.5		3.6	1.7
					80	4.9	
Ø43	2.4	6.0	143	75.5		3.6	1.7
					86	4.8	
Ø50	2.0	6.0	168	89.5		3.8	1.7
					100	4.8	
Ø63	1.6	6.0	215	115.5		3.9	1.7
					126	4.7	

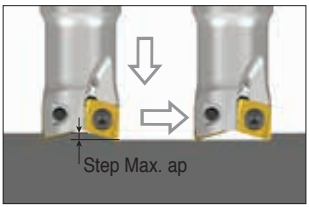
Straight ramping



Helical ramping



Step down



4NKT 06: R0.8

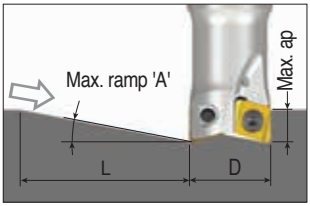
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	3.7	6.0	93	21.5		0.9	0.8
					32	2.8	
Ø17	3.8	6.0	90	23.5		1.2	0.8
					34	3.0	
Ø18	4.2	6.0	82	25.5		1.5	1.0
					36	3.5	
Ø20	4.4	6.0	78	29.5		2.0	1.1
					40	4.1	
Ø21	4.6	6.0	75	31.5		2.3	1.2
					42	4.5	
Ø25	4.6	6.0	75	39.5		3.1	1.5
					50	5.4	
Ø26	4.3	6.0	80	41.5		3.1	1.5
					52	5.2	
Ø32	3.2	6.0	107	53.5		3.2	1.5
					64	4.8	
Ø33	3.1	6.0	111	55.5		3.3	1.5
					66	4.8	
Ø35	2.8	6.0	121	59.5		3.3	1.5
					70	4.6	
Ø36	2.7	6.0	125	61.5		3.3	1.5
					72	4.6	
Ø38	2.5	6.0	135	65.5		3.3	1.5
					76	4.5	
Ø40	2.4	6.0	140	69.5		3.4	1.5
					80	4.6	
Ø43	2.2	6.0	153	75.5		3.4	1.5
					86	4.5	
Ø50	1.9	6.0	181	89.5		3.5	1.5
					100	4.4	
Ø63	1.4	6.0	237	115.5		3.5	1.6
					126	4.3	

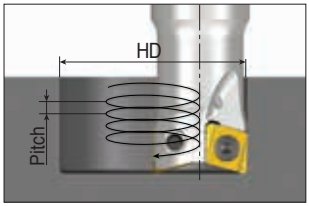
Ramping Data

CHASE4MILL

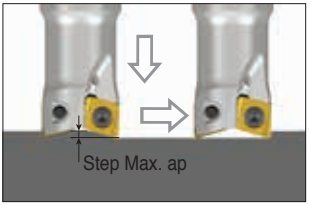
Straight ramping



Helical ramping



Step down

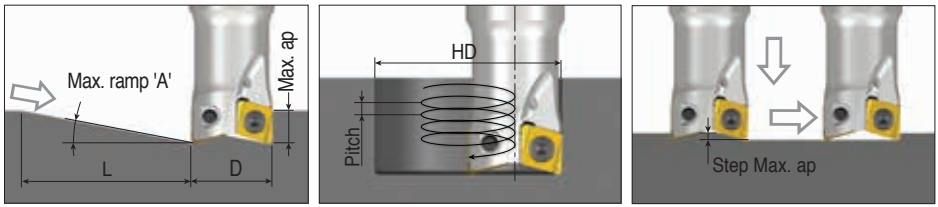


4NKT 06: R1.2

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	3.0	6.0	115	21.5		0.8	0.5
					32	2.2	
Ø17	3.2	6.0	107	23.5		1.0	0.7
					34	2.5	
Ø18	3.6	6.0	95	25.5		1.3	0.8
					36	3.0	
Ø20	3.9	6.0	88	29.5		1.7	1.0
					40	3.6	
Ø21	4.1	6.0	84	31.5		2.0	1.1
					42	4.0	
Ø25	4.2	6.0	82	39.5		2.8	1.3
					50	4.9	
Ø26	3.9	6.0	88	41.5		2.8	1.3
					52	4.7	
Ø32	2.9	6.0	119	53.5		2.9	1.4
					64	4.3	
Ø33	2.8	6.0	123	55.5		2.9	1.4
					66	4.3	
Ø35	2.6	6.0	132	59.5		3.0	1.4
					70	4.2	
Ø36	2.5	6.0	137	61.5		3.0	1.4
					72	4.2	
Ø38	2.3	6.0	146	65.5		3.0	1.4
					76	4.2	
Ø40	2.2	6.0	156	69.5		3.0	1.4
					80	4.1	
Ø43	2.0	6.0	168	75.5		3.1	1.4
					86	4.1	
Ø50	1.7	6.0	202	89.5		3.1	1.4
					100	4.0	
Ø63	1.3	6.0	265	115.5		3.2	1.4
					126	3.8	

Straight ramping | Helical ramping | Step down



4NKT 06: R1.6

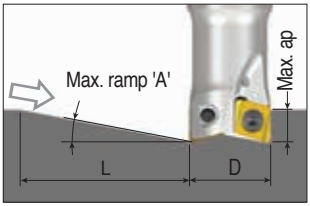
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	2.2	6.0	156	21.5		0.6	0.4
					32	1.6	
Ø17	2.4	6.0	143	23.5		0.7	0.5
					34	1.9	
Ø18	2.8	6.0	123	25.5		1.0	0.6
					36	2.3	
Ø20	3.2	6.0	107	29.5		1.4	0.8
					40	3.0	
Ø21	3.4	6.0	101	31.5		1.7	0.9
					42	3.3	
Ø25	3.7	6.0	93	39.5		2.5	1.1
					50	4.3	
Ø26	3.4	6.0	101	41.5		2.5	1.1
					52	4.1	
Ø32	2.5	6.0	135	53.5		2.6	1.2
					64	3.8	
Ø33	2.4	6.0	140	55.5		2.6	1.2
					66	3.8	
Ø35	2.3	6.0	149	59.5		2.6	1.2
					70	3.8	
Ø36	2.2	6.0	156	61.5		2.6	1.2
					72	3.7	
Ø38	2.0	6.0	168	65.5		2.6	1.2
					76	3.6	
Ø40	1.9	6.0	176	69.5		2.7	1.2
					80	3.6	
Ø43	1.8	6.0	191	75.5		2.7	1.2
					86	3.6	
Ø50	1.5	6.0	229	89.5		2.8	1.2
					100	3.5	
Ø63	1.1	6.0	299	115.5		2.8	1.2
					126	3.4	

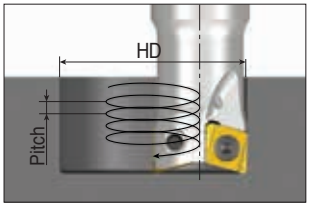
Ramping Data

CHASE4MILL

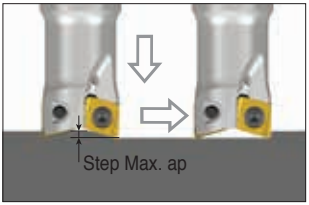
Straight ramping



Helical ramping



Step down



4NKT 06: R2.0

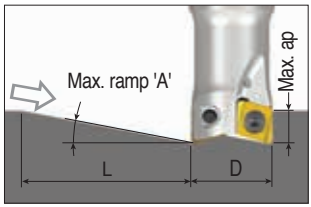
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	1.6	6.0	215	21.5		0.4	0.3
					32	1.2	
Ø17	1.8	6.0	191	23.5		0.5	0.3
					34	1.4	
Ø18	2.3	6.0	149	25.5		0.8	0.5
					36	1.9	
Ø20	2.7	6.0	125	29.5		1.2	0.6
					40	2.6	
Ø21	3.0	6.0	115	31.5		1.5	0.7
					42	2.9	
Ø25	3.3	6.0	104	39.5		2.2	1.0
					50	3.8	
Ø26	3.1	6.0	111	41.5		2.2	1.0
					52	3.8	
Ø32	2.3	6.0	149	53.5		2.3	1.0
					64	3.4	
Ø33	2.2	6.0	156	55.5		2.3	1.0
					66	3.4	
Ø35	2.0	6.0	168	59.5		2.3	1.0
					70	3.3	
Ø36	2.0	6.0	172	61.5		2.4	1.0
					72	3.4	
Ø38	1.8	6.0	186	65.5		2.4	1.0
					76	3.3	
Ø40	1.7	6.0	196	69.5		2.4	1.0
					80	3.3	
Ø43	1.3	6.0	265	75.5		2.0	1.0
					86	2.6	
Ø50	1.3	6.0	255	89.5		2.5	1.0
					100	3.1	
Ø63	1.0	6.0	328	115.5		2.6	1.0
					126	3.1	

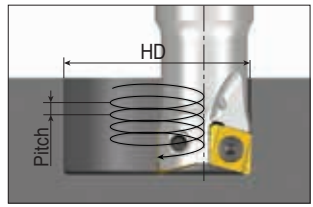
Ramping Data

CHASE4MILL

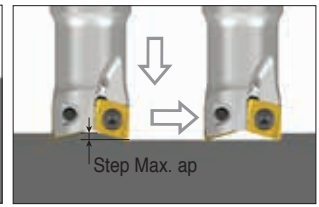
Straight ramping



Helical ramping



Step down



4NHT 06: R0.4

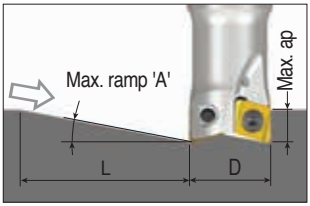
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	2.9	6.0	119	21.5		0.7	0.6
					32	2.2	
Ø17	3.0	6.0	115	23.5		0.9	0.6
					34	2.4	
Ø18	3.4	6.0	101	25.5		1.2	0.8
					36	2.9	
Ø20	3.8	6.0	90	29.5		1.7	0.9
					40	3.5	
Ø21	4.0	6.0	86	31.5		2.0	1.0
					42	3.9	
Ø25	4.1	6.0	84	39.5		2.8	1.3
					50	4.8	
Ø26	3.8	6.0	90	41.5		2.7	1.3
					52	4.6	
Ø32	2.8	6.0	123	53.5		2.8	1.3
					64	4.2	
Ø33	2.7	6.0	127	55.5		2.8	1.3
					66	4.2	
Ø35	2.5	6.0	135	59.5		2.9	1.3
					70	4.2	
Ø36	2.4	6.0	140	61.5		2.9	1.3
					72	4.1	
Ø38	2.3	6.0	149	65.5		2.9	1.3
					76	4.1	
Ø40	2.1	6.0	160	69.5		3.0	1.3
					80	4.0	
Ø43	1.9	6.0	176	75.5		3.0	1.3
					86	3.9	
Ø50	1.6	6.0	208	89.5		3.0	1.3
					100	3.8	
Ø63	1.2	6.0	275	115.5		3.1	1.3
					126	3.7	

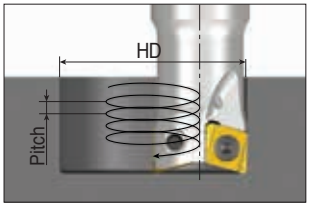
Ramping Data

CHASE4MILL

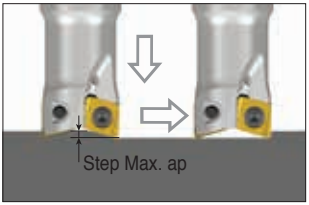
Straight ramping



Helical ramping



Step down

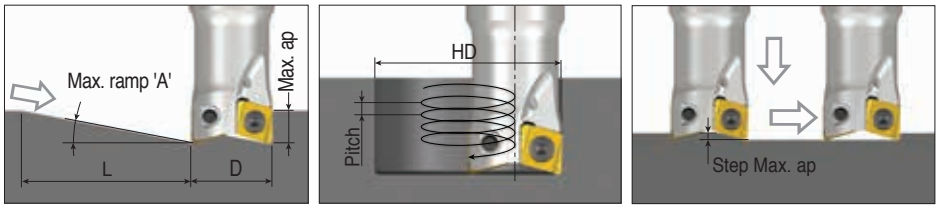


4NHT 06: R0.8

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	2.9	6.0	119	21.5		0.7	0.6
					32	2.2	
Ø17	3.0	6.0	115	23.5		0.9	0.6
					34	2.4	
Ø18	3.5	6.0	98	25.5		1.2	0.8
					36	2.9	
Ø20	3.8	6.0	90	29.5		1.7	0.9
					40	3.5	
Ø21	4.0	6.0	86	31.5		2.0	1.0
					42	3.9	
Ø25	4.1	6.0	84	39.5		2.8	1.3
					50	4.8	
Ø26	3.8	6.0	90	41.5		2.7	1.3
					52	4.6	
Ø32	2.8	6.0	123	53.5		2.8	1.3
					64	4.2	
Ø33	2.7	6.0	127	55.5		2.8	1.3
					66	4.2	
Ø35	2.5	6.0	135	59.5		2.9	1.3
					70	4.2	
Ø36	2.4	6.0	140	61.5		2.9	1.3
					72	4.1	
Ø38	2.3	6.0	149	65.5		2.9	1.3
					76	4.1	
Ø40	2.1	6.0	160	69.5		3.0	1.3
					80	4.0	
Ø43	1.9	6.0	176	75.5		3.0	1.3
					86	3.9	
Ø50	1.6	6.0	208	89.5		3.0	1.3
					100	3.8	
Ø63	1.25	6.0	275	115.5		3.1	1.3
					126	3.7	

Straight ramping | Helical ramping | Step down



4NHT 06: R0.5-F

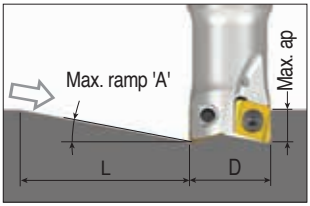
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	3.5	2.3	38	21.5		0.9	0.8
					32	2.6	
Ø17	3.6	2.3	37	23.5		1.1	0.8
					34	2.9	
Ø18	4.0	2.3	33	25.5		1.4	1.0
					36	3.4	
Ø20	4.3	2.3	31	29.5		1.9	1.2
					40	4.0	
Ø21	4.4	2.3	30	31.5		2.2	1.2
					42	4.3	
Ø25	4.9	2.3	27	39.5		3.3	1.6
					50	5.7	
Ø26	4.6	2.3	29	41.5		3.3	1.6
					52	5.6	
Ø32	3.5	2.3	38	53.5		3.5	1.6
					64	5.2	
Ø33	3.3	2.3	40	55.5		3.5	1.6
					66	5.1	
Ø35	3.1	2.3	42	59.5		3.5	1.6
					70	5.1	
Ø36	3.0	2.3	44	61.5		3.6	1.6
					72	5.0	
Ø38	2.8	2.3	47	65.5		3.6	1.7
					76	5.0	
Ø40	2.6	2.3	51	69.5		3.6	1.7
					80	4.8	
Ø43	2.4	2.3	55	75.5		3.6	1.7
					86	4.8	
Ø50	2.0	2.3	64	89.5		3.8	1.7
					100	4.8	
Ø63	1.7	2.3	78	115.5		4.2	1.7
					126	5.0	

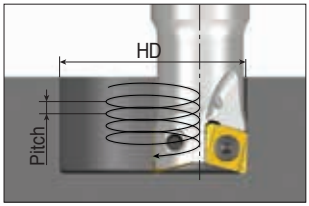
Ramping Data

CHASE4MILL

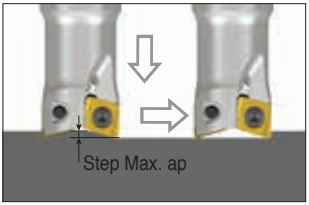
Straight ramping



Helical ramping



Step down

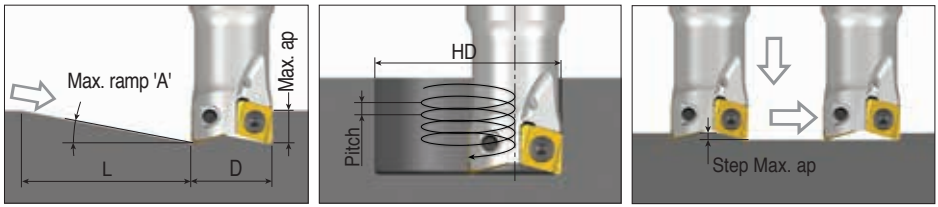


4NHT 06: R0.8-F

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	3.1	1.9	35	21.5		0.8	0.7
					32	2.3	
Ø17	3.2	1.9	34	23.5		1.0	0.7
					34	2.5	
Ø18	3.6	1.9	30	25.5		1.3	0.9
					36	3.0	
Ø20	3.9	1.9	28	29.5		1.7	1.0
					40	3.6	
Ø21	4.1	1.9	27	31.5		2.0	1.1
					42	4.0	
Ø25	4.6	1.9	24	39.5		3.1	1.5
					50	5.4	
Ø26	4.4	1.9	25	41.5		3.2	1.5
					52	5.3	
Ø32	3.3	1.9	33	53.5		3.3	1.5
					64	4.9	
Ø33	3.1	1.9	35	55.5		3.3	1.5
					66	4.8	
Ø35	2.9	1.9	38	59.5		3.3	1.5
					70	4.7	
Ø36	2.8	1.9	39	61.5		3.3	1.5
					72	4.7	
Ø38	2.6	1.9	41	65.5		3.4	1.5
					76	4.7	
Ø40	2.4	1.9	44	69.5		3.4	1.5
					80	4.6	
Ø43	2.2	1.9	48	75.5		3.4	1.5
					86	4.5	
Ø50	1.9	1.9	57	89.5		3.5	1.6
					100	4.4	
Ø63	1.4	1.9	75	115.5		3.5	1.6
					126	4.3	

Straight ramping | Helical ramping | Step down



4NHT 06: R1.0-F

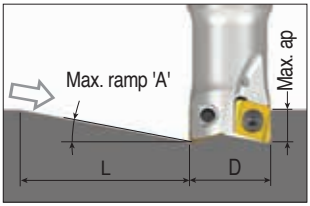
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	2.7	2.1	44	21.5		0.7	0.6
					32	2.1	
Ø17	2.9	2.1	41	23.5		0.9	0.7
					34	2.3	
Ø18	3.3	2.1	36	25.5		1.2	0.8
					36	2.8	
Ø20	3.6	2.1	33	29.5		1.6	1.0
					40	3.4	
Ø21	3.8	2.1	32	31.5		1.9	1.0
					42	3.7	
Ø25	4.4	2.1	27	39.5		3.0	1.4
					50	5.1	
Ø26	4.2	2.1	29	41.5		3.0	1.4
					52	5.1	
Ø32	3.1	2.1	39	53.5		3.1	1.4
					64	4.6	
Ø33	3.0	2.1	40	55.5		3.1	1.4
					66	4.6	
Ø35	2.8	2.1	43	59.5		3.2	1.4
					70	4.6	
Ø36	2.6	2.1	45	61.5		3.1	1.4
					72	4.4	
Ø38	2.5	2.1	48	65.5		3.2	1.5
					76	4.4	
Ø40	2.3	2.1	51	69.5		3.2	1.5
					80	4.4	
Ø43	2.1	2.1	56	75.5		3.3	1.5
					86	4.3	
Ø50	1.8	2.1	67	89.5		3.3	1.5
					100	4.2	
Ø63	1.4	2.1	86	115.5		3.4	1.5
					126	4.1	

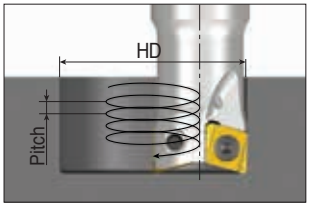
Ramping Data

CHASE4MILL

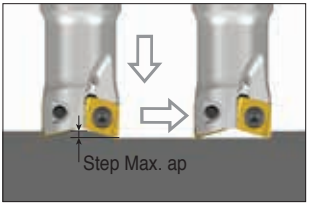
Straight ramping



Helical ramping



Step down

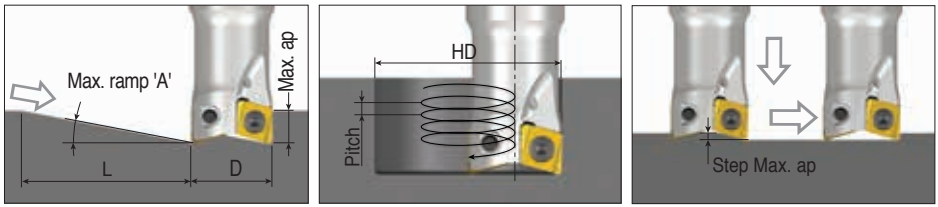


4NHT 06: R1.5-F

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	1.9	3.3	97	21.5		0.5	0.4
					32	1.5	
Ø17	2.1	3.3	88	23.5		0.7	0.5
					34	1.7	
Ø18	2.6	3.3	73	25.5		0.9	0.6
					36	2.2	
Ø20	3.0	3.3	63	29.5		1.3	0.8
					40	2.8	
Ø21	3.2	3.3	59	31.5		1.6	0.9
					42	3.1	
Ø25	3.9	3.3	48	39.5		2.6	1.2
					50	4.5	
Ø26	3.7	3.3	51	41.5		2.7	1.2
					52	4.5	
Ø32	2.7	3.3	70	53.5		2.7	1.2
					64	4.0	
Ø33	2.6	3.3	71	55.5		2.8	1.2
					66	4.1	
Ø35	2.4	3.3	77	59.5		2.8	1.3
					70	4.0	
Ø36	2.3	3.3	80	61.5		2.8	1.3
					72	3.9	
Ø38	2.2	3.3	86	65.5		2.8	1.3
					76	3.9	
Ø40	2.1	3.3	90	69.5		2.9	1.3
					80	3.9	
Ø43	1.9	3.3	100	75.5		2.9	1.3
					86	3.8	
Ø50	1.6	3.3	118	89.5		2.9	1.3
					100	3.7	
Ø63	1.2	3.3	151	115.5		3.1	1.3
					126	3.7	

Straight ramping | Helical ramping | Step down



4NHT 06: R2.0-F

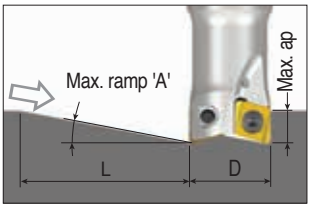
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	0.8	2.1	142	21.5		0.2	0.1
					32	0.6	
Ø17	1.1	2.1	109	23.5		0.3	0.2
					34	0.9	
Ø18	1.6	2.1	75	25.5		0.6	0.3
					36	1.3	
Ø20	2.1	2.1	57	29.5		0.9	0.5
					40	2.0	
Ø21	2.3	2.1	51	31.5		1.1	0.6
					42	2.3	
Ø25	3.2	2.1	38	39.5		2.2	0.9
					50	3.7	
Ø26	3.0	2.1	40	41.5		2.2	1.0
					52	3.6	
Ø32	2.2	2.1	53	53.5		2.3	1.0
					64	3.4	
Ø33	2.1	2.1	56	55.5		2.3	1.0
					66	3.3	
Ø35	2.0	2.1	60	59.5		2.3	1.0
					70	3.3	
Ø36	1.9	2.1	62	61.5		2.3	1.0
					72	3.3	
Ø38	1.8	2.1	67	65.5		2.3	1.0
					76	3.2	
Ø40	1.7	2.1	71	69.5		2.3	1.0
					80	3.2	
Ø43	1.5	2.1	78	75.5		2.3	1.0
					86	3.1	
Ø50	1.3	2.1	93	89.5		2.4	1.0
					100	3.0	
Ø63	1.0	2.1	120	115.5		2.4	1.0
					126	2.9	

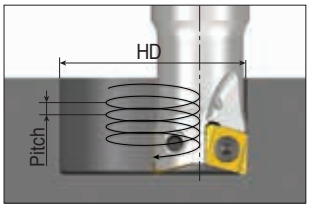
Ramping Data

CHASE4MILL

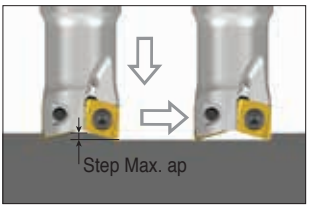
Straight ramping



Helical ramping



Step down



4NKT 09: R0.8

(unit: mm)

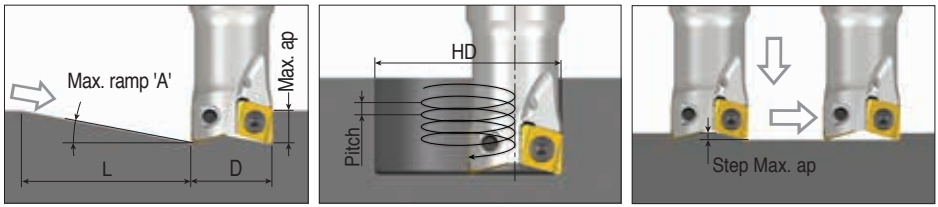
Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø20	3.7	8.0	124	25.5		0.9	1.0
					40	3.5	
Ø25	4.9	8.0	93	35.5		2.4	1.6
					50	5.7	
Ø32	4.9	8.0	93	49.5		4.0	2.1
					64	7.3	
Ø40	3.6	8.0	127	65.5		4.3	2.1
					80	6.7	
Ø50	2.7	8.0	170	85.5		4.5	2.1
					100	6.3	
Ø63	2.0	8.0	224	111.5		4.6	2.1
					126	6.0	
Ø80	1.5	8.0	296	145.5		4.7	2.1
					160	5.8	

4NKT 09: R1.6

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø20	2.7	8.0	167	25.5		0.7	0.7
					40	2.6	
Ø25	4.1	8.0	112	35.5		2.0	1.3
					50	4.8	
Ø32	4.4	8.0	104	49.5		3.6	1.8
					64	6.6	
Ø40	3.1	8.0	148	65.5		3.7	1.8
					80	5.8	
Ø50	2.3	8.0	195	85.5		3.9	1.8
					100	5.5	
Ø63	1.8	8.0	255	111.5		4.1	1.8
					126	5.3	
Ø80	1.3	8.0	340	145.5		4.1	1.8
					160	5.0	

Straight ramping | Helical ramping | Step down



4NHT 09: R0.4 (unit: mm)

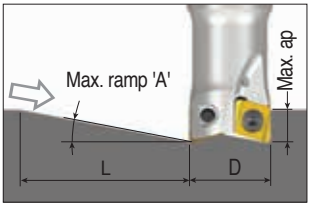
Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø20	2.9	8.0	155	25.5		0.8	0.8
					40	2.7	
Ø25	4.3	8.0	106	35.5		2.1	1.3
					50	5.0	
Ø32	4.5	8.0	102	49.5		3.7	1.8
					64	6.7	
Ø40	3.2	8.0	143	65.5		3.8	1.8
					80	6.0	
Ø50	2.4	8.0	191	85.5		4.0	1.8
					100	5.6	
Ø63	1.8	8.0	255	111.5		4.1	1.8
					126	5.3	
Ø80	1.3	8.0	340	145.5		4.1	1.8
					160	5.0	

4NHT 09: R0.8 (unit: mm)

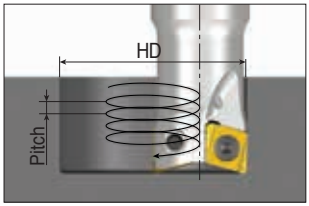
Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø20	2.9	8.0	155	25.5		0.8	0.8
					40	2.7	
Ø25	4.3	8.0	106	35.5		2.1	1.3
					50	5.0	
Ø32	4.5	8.0	102	49.5		3.7	1.8
					64	6.7	
Ø40	3.2	8.0	143	65.5		3.8	1.8
					80	6.0	
Ø50	2.4	8.0	191	85.5		4.0	1.8
					100	5.6	
Ø63	1.8	8.0	255	111.5		4.1	1.8
					126	5.3	
Ø80	1.3	8.0	340	145.5		4.1	1.8
					160	5.0	

CHASE4MILL

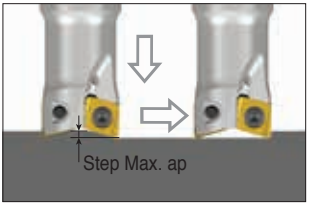
Straight ramping



Helical ramping



Step down



4NKT 11: R0.8

(unit: mm)

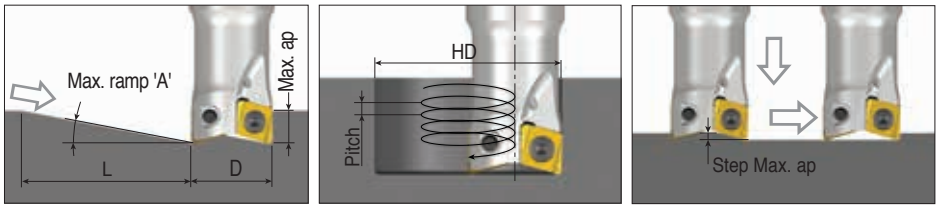
Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø25	5.1	10.3	115	31.5		1.5	1.7
					50	6.0	
Ø32	5.3	10.3	111	45.5		3.3	2.4
					64	7.9	
Ø40	5.0	10.3	118	61.5		5.0	2.7
					80	9.3	
Ø50	3.7	10.3	159	81.5		5.4	2.7
					100	8.6	
Ø63	2.7	10.3	219	107.5		5.6	2.7
					126	7.9	
Ø80	2.0	10.3	288	141.5		5.9	2.7
					160	7.6	

4NKT 14: R0.8

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø32	5.2	13.5	148	39.5		1.8	2.3
					64	7.8	
Ø40	5.2	13.5	148	55.5		3.8	3.0
					80	9.7	
Ø50	5.5	13.5	140	75.5		6.6	3.3
					100	12.8	
Ø63	4.0	13.5	193	101.5		7.2	3.3
					126	11.8	
Ø80	2.9	13.5	267	135.5		7.5	3.3
					160	10.8	

Straight ramping | Helical ramping | Step down



4NKT 11 PNR: R0.8 (unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø25	4.0	10.3	147	31.5		1.2	1.1
					50	4.7	
Ø32	4.3	10.3	135	45.5		2.7	1.0
					64	6.5	
Ø40	4.5	10.3	131	61.5		4.5	0.9
					80	8.4	
Ø50	3.2	10.3	184	81.5		4.7	0.9
					100	7.5	
Ø63	2.4	10.3	246	107.5		5.0	0.9
					126	7.0	
Ø80	1.8	10.3	328	141.5		5.2	0.9
					160	6.7	

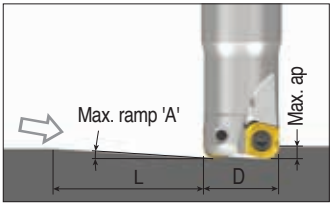
4NKT 14 PNR: R0.8 (unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø32	4.1	13.5	188	39.5		1.4	1.1
					64	6.1	
Ø40	4.3	13.5	180	55.5		3.1	0.9
					80	8.0	
Ø50	4.7	13.5	163	75.5		5.7	0.9
					100	11.1	
Ø63	3.5	13.5	221	101.5		6.3	0.9
					126	10.3	
Ø80	2.6	13.5	297	135.5		6.7	0.9
					160	9.7	

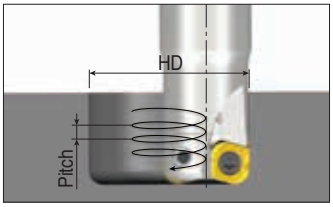
Ramping Data

CHASE4MILL

Straight ramping



Helical ramping



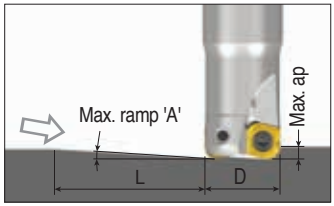
4NKT 04-HF: R1.2 (unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø8	0.1	0.5	191	9.9		0.0
					16	0.1
Ø10	0.8	0.5	34	13.9		0.2
					20	0.4
Ø11	1.6	0.5	18	15.9		0.4
					22	0.5
Ø12	1.6	0.5	18	17.9		0.4
					24	0.5
Ø13	2.0	0.5	14	19.9		0.5
					26	0.5
Ø16	1.9	0.5	15	25.9		0.5
					32	0.5
Ø20	2.3	0.5	12	33.9		0.5
					40	0.5
Ø25	1.7	0.5	16	43.9		0.5
					50	0.5
Ø32	1.3	0.5	22	57.9		0.5
					64	0.5
Ø40	1.0	0.5	29	73.9		0.5
					80	0.5

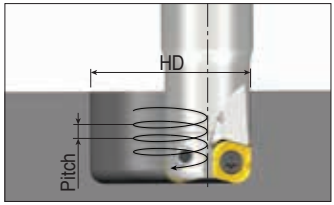
4NKT 06-HF: R2.0 (unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø16	0.6	1.0	88	21.4		0.2
					32	0.5
Ø17	0.7	1.0	76	23.4		0.2
					34	0.6
Ø18	1.1	1.0	50	25.4		0.4
					36	1.0
Ø20	1.7	1.0	34	29.4		0.7
					40	1.0
Ø21	1.9	1.0	29	31.4		0.9
					42	1.0
Ø25	2.3	1.0	24	39.4		1.0
					50	1.0
Ø26	3.2	1.0	18	41.4		1.0
					52	1.0
Ø32	2.4	1.0	24	53.4		1.0
					64	1.0
Ø40	1.8	1.0	32	69.4		1.0
					80	1.0
Ø50	1.4	1.0	41	89.4		1.0
					100	1.0
Ø63	1.1	1.0	52	115.4		1.0
					126	1.0

Straight ramping



Helical ramping



4NKT 09-HF: R3.2

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø20	0.3	1.5	287	25		0.1
					40	0.3
Ø25	1.2	1.5	69	35		0.6
					50	1.5
Ø32	2.4	1.5	35	49		1.5
					64	1.5
Ø40	2.3	1.5	37	65		1.5
					80	1.5
Ø50	1.7	1.5	49	85		1.5
					100	1.5
Ø63	1.3	1.5	66	111		1.5
					126	1.5
Ø80	1.0	1.5	86	145		1.5
					160	1.5

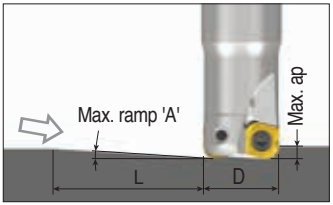
4NKT 11-HF: R4.0

(unit: mm)

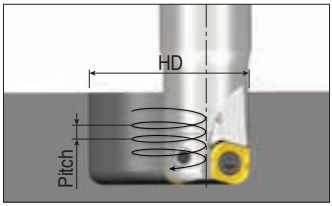
Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø25	0.8	2.0	143	31		0.2
					50	0.9
Ø32	2.0	2.0	57	45		1.2
					64	2.0
Ø40	3.4	2.0	34	61		2.0
					80	2.0
Ø50	2.4	2.0	48	81		2.0
					100	2.0
Ø63	1.8	2.0	64	107		2.0
					126	2.0
Ø80	1.3	2.0	85	141		2.0
					160	2.0

Ramping Data

Straight ramping



Helical ramping

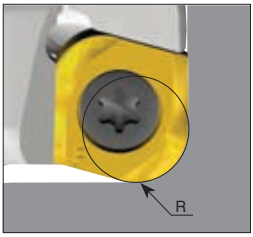


4NKT 14-HF: R5.0

(unit: mm)

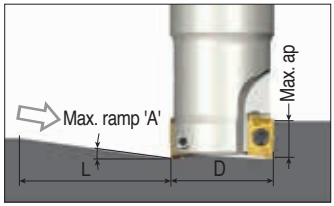
Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø32	1.0	3.0	172	39		0.3
					64	1.5
Ø40	1.8	3.0	96	55		1.3
					80	3.0
Ø50	3.9	3.0	44	75		3.0
					100	3.0
Ø63	2.7	3.0	64	101		3.0
					126	3.0
Ø80	1.9	3.0	88	135		3.0
					160	3.0

Programming technical data

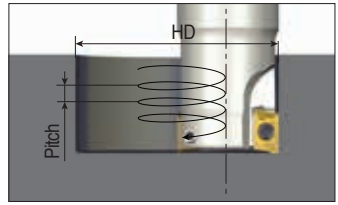


	R Program	A Over cut	B Un-machined
4NKT 040212R-HF	1.2	0	0
4NKT 060320R-HF	2.0	0	0
4NKT 090432R-HF	3.2	0	0
4NKT 110640R-HF	4.0	0	0
4NKT 140750R-HF	5.0	0	0

Straight ramping



Helical ramping

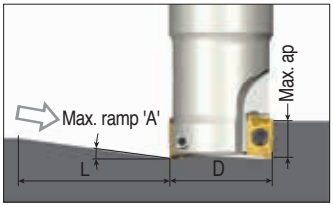


AXMT 06

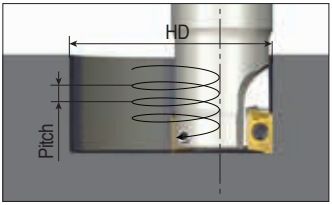
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø8	1.0	5.0	287	9		0.0
					16	0.4
Ø10	8.0	5.0	36	13		1.1
					20	3.7
Ø11	6.0	5.0	48	15		1.1
					22	3.1
Ø12	6.0	5.0	48	17		1.4
					24	3.4
Ø13	5.5	5.0	52	19		1.5
					26	3.3
Ø14	4.8	5.0	60	21		1.6
					28	3.1
Ø15	4.3	5.0	67	23		1.6
					30	3.0
Ø16	4.0	5.0	72	25		1.7
					32	3.0
Ø17	3.5	5.0	82	27		1.6
					34	2.8
Ø18	5.0	5.0	57	29		2.6
					36	4.2
Ø19	4.8	5.0	60	31		2.7
					38	4.3
Ø20	4.0	5.0	72	33		2.4
					40	3.7
Ø21	3.5	5.0	82	35		2.3
					42	3.4
Ø25	3.0	5.0	95	43		2.5
					50	3.5
Ø32	2.0	5.0	143	57		2.3
					64	3.0
Ø40	1.5	5.0	191	73		2.3
					80	2.8

Straight ramping



Helical ramping

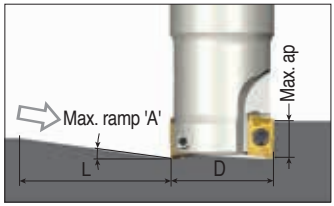


APKT 09

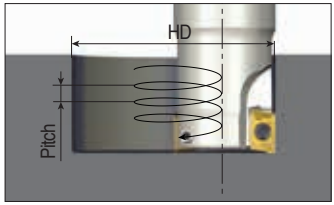
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø10	7.5	9.0	68	14		1.4
					20	3.5
Ø12	7.3	9.0	70	16		1.4
					24	4.1
Ø14	6.0	9.0	86	18		1.1
					28	3.9
Ø16	4.9	9.0	105	21.08		1.2
					32	3.7
Ø17	4.4	9.0	117	23.08		1.2
					34	3.5
Ø18	4.0	9.0	129	25.08		1.3
					36	3.4
Ø20	3.4	9.0	152	29.08		1.4
					40	3.2
Ø21	3.1	9.0	166	31.08		1.5
					42	3.0
Ø22	2.8	9.0	184	33.08		1.4
					44	2.9
Ø25	1.8	9.0	287	39.08		1.2
					50	2.1
Ø26	2.0	9.0	258	41.08		1.4
					52	2.4
Ø30	2.2	9.0	234	49.08		2.0
					60	3.1
Ø32	2.0	9.0	258	53.08		2.0
					64	3.0
Ø33	1.7	9.0	303	55.08		1.7
					66	2.6
Ø40	1.5	9.0	344	69.08		2.0
					80	2.8
Ø50	1.1	9.0	469	89.08		2.0
					100	2.6
Ø63	0.8	9.0	645	115.08		1.9
					126	2.3
Ø80	0.5	9.0	1032	149.08		1.6
					160	1.9

Straight ramping



Helical ramping



APKT 12

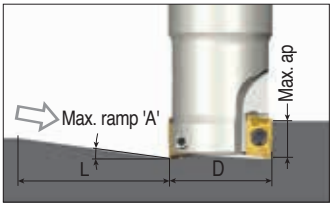
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø16	12.5	12.0	54	17.5		0.5
					32	9.5
Ø18	9.7	12.0	70	20.9		1.3
					36	8.2
Ø20	6.8	12.0	101	24.9		1.6
					40	6.4
Ø21	6.2	12.0	111	26.9		1.7
					42	6.1
Ø25	8.0	12.0	85	34.9		3.7
					50	9.4
Ø26	7.5	12.0	91	36.9		3.8
					52	9.1
Ø32	5.0	12.0	137	48.9		3.9
					64	7.5
Ø33	4.6	12.0	149	50.9		3.8
					66	7.1
Ø40	3.5	12.0	196	64.9		4.1
					80	6.5
Ø50	2.5	12.0	275	84.9		4.8
					100	5.8
Ø63	1.7	12.0	405	110.9		4.5
					126	5.0
Ø80	1.3	12.0	529	144.9		4.6
					160	4.8

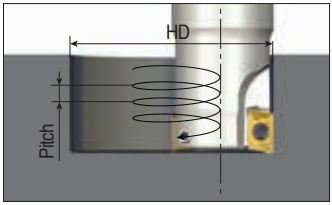
Ramping Data

CHASEMILL

Straight ramping



Helical ramping



APKT 17

(unit: mm)

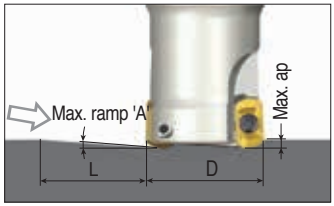
Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø20	8.0	16.1	115	22		0.7
					40	7.5
Ø25	5.0	16.1	184	30.6		1.3
					50	5.8
Ø26	4.0	16.1	230	32.6		1.2
					52	4.9
Ø32	9.0	16.1	102	44.6		5.3
					64	13.5
Ø33	9.0	16.1	102	46.6		5.7
					66	13.9
Ø40	5.0	16.1	184	60.6		4.8
					80	9.3
Ø50	4.4	16.1	209	80.6		6.3
					100	10.3
Ø63	3.2	16.1	288	106.6		6.5
					126	9.4
Ø80	2.3	16.1	401	140.6		6.5
					160	8.6
Ø100	1.8	16.1	513	180.6		6.8
					200	8.4
Ø125	1.4	16.1	659	230.6		6.9
					250	8.1
Ø160	1.0	16.1	923	300.6		6.5
					320	7.5
Ø200	0.7	16.1	1318	380.6		5.9
					400	6.5

APKT 19

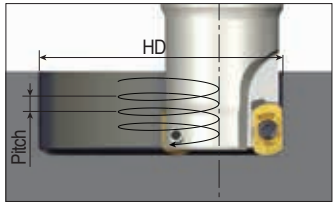
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø40	6.0	17.5	167	56		4.5
					80	11.2
Ø50	4.0	17.5	250	76		4.9
					100	9.3
Ø63	2.9	17.5	346	102		5.3
					126	8.5
Ø80	2.1	17.5	477	136		5.5
					160	7.8
Ø100	1.6	17.5	627	176		5.7
					200	7.5
Ø125	1.2	17.5	736	226		5.6
					250	7.0
Ø160	0.9	17.5	1115	296		5.7
					320	6.7
Ø200	0.7	17.5	1433	376		5.7
					400	6.5

Straight ramping



Helical ramping

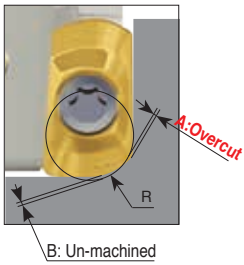


AXMT 0602R-HF

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø8	0.3	0.5	96	14		0.1
					16	0.1
Ø10	0.5	0.5	57	14		0.1
					20	0.2
Ø11	1.0	0.5	29	18		0.3
					22	0.5
Ø12	2.3	0.5	12	18		0.5
					24	0.5
Ø13	4.5	0.5	6	18		0.5
					26	0.5
Ø14	3.5	0.5	8	18		0.5
					28	0.5
Ø15	3.0	0.5	10	26		0.5
					30	0.5
Ø16	2.8	0.5	10	26		0.5
					32	0.5
Ø17	2.5	0.5	11	26		0.5
					34	0.5
Ø18	2.3	0.5	12	26		0.5
					36	0.5
Ø19	2.2	0.5	13	26		0.5
					38	0.5
Ø20	1.9	0.5	15	34		0.5
					40	0.5
Ø21	1.7	0.5	17	34		0.5
					42	0.5
Ø25	1.4	0.5	20	44		0.5
					50	0.5
Ø32	1.0	0.5	29	58		0.5
					64	0.5
Ø40	0.7	0.5	41	74		0.5
					80	0.5

Programming technical data



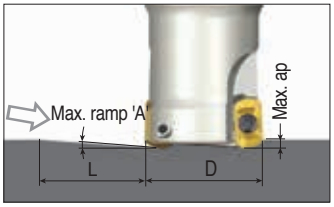
	R Program	A Over cut	B Un-machined
AXMT 0602R-HF	0.9	0	0.22
	1.0	0.01	0.19
	1.5	0.16	0.05
	2.0	0.35	0
APKT 09T3R-HF	1.5	0	0.47
	1.7	0	0.29
	2.0	0.04	0.3
	2.5	0.18	0.15
	3.0	0.36	0.04
APKT 1204R-HF	2	0	0.57
	2.5	0.07	0.42
	3	0.21	0.28
	3.5	0.39	0.15
	4	0.58	0.06

:Recommended program 'R'

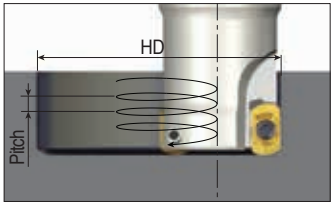
Ramping Data

CHASEMILL

Straight ramping



Helical ramping

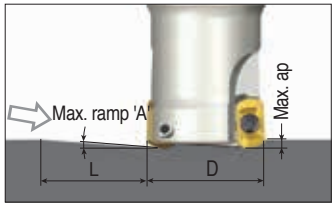


APKT 09T3R-HF

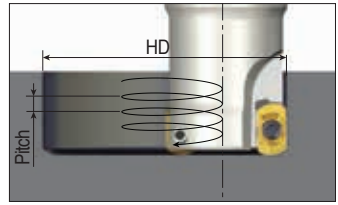
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø16	3.8	1.0	15	22		1.0
					32	1.0
Ø17	3.5	1.0	16	24		1.0
					34	1.0
Ø18	3.4	1.0	17	26		1.0
					36	1.0
Ø20	3.0	1.0	19	30		1.0
					40	1.0
Ø21	2.3	1.0	25	32		1.0
					42	1.0
Ø22	2.0	1.0	29	34		1.0
					44	1.0
Ø25	2.1	1.0	27	40		1.0
					50	1.0
Ø26	2.0	1.0	29	42		1.0
					52	1.0
Ø30	1.8	1.0	32	50		1.0
					60	1.0
Ø32	1.6	1.0	36	54		1.0
					64	1.0
Ø33	1.5	1.0	38	56		1.0
					66	1.0
Ø40	1.2	1.0	48	70		1.0
					80	1.0
Ø50	0.9	1.0	64	90		1.0
					100	1.0
Ø63	0.5	1.0	115	116		1.0
					126	1.0
Ø80	0.4	1.0	143	150		1.0
					160	1.0

Straight ramping



Helical ramping



APKT 1204R-HF

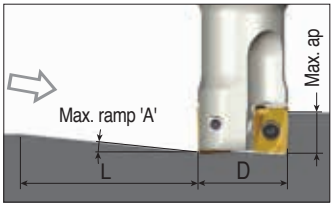
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø16	3.8	1.2	18	21		0.8
					32	1.2
Ø18	4.0	1.2	17	24		1.1
					36	1.2
Ø20	4.0	1.2	17	27		1.2
					40	1.2
Ø21	3.5	1.2	20	29		1.2
					42	1.2
Ø25	2.5	1.2	27	37		1.2
					50	1.2
Ø26	2.3	1.2	30	39		1.2
					52	1.2
Ø32	1.7	1.2	40	51		1.2
					64	1.2
Ø33	1.7	1.2	40	53		1.2
					66	1.2
Ø40	1.5	1.2	46	67		1.2
					80	1.2
Ø50	1.1	1.2	63	86		1.2
					100	1.2
Ø63	1.0	1.2	69	112		1.2
					126	1.2
Ø80	0.8	1.2	86	146		1.2
					160	1.2

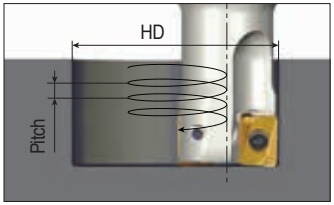
Ramping Data

CHASE2MILL

Straight ramping



Helical ramping



ANH(M)X 11

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø25	1.5	11.0	420	30		0.3
					50	1.7
Ø26	1.4	11.0	450	32		0.4
					52	1.7
Ø32	1.1	11.0	573	44		0.6
					64	1.6
Ø33	1.0	11.0	631	46		0.6
					66	1.5
Ø40	0.8	11.0	788	60		0.7
					80	1.5
Ø50	0.6	11.0	1051	80		0.8
					100	1.4
Ø63	0.4	11.0	1576	106		0.8
					126	1.2
Ø80	0.3	11.0	2102	140		0.8
					160	1.1
Ø100	0.2	11.0	3153	180		0.7
					200	0.9
Ø125	0.2	11.0	3153	230		1.0
					250	1.2

ANH(M)X 16

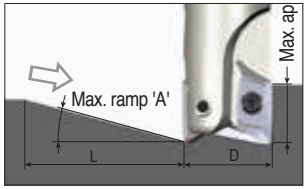
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø32	1.2	15.0	716	44		0.7
					64	1.8
Ø33	1.0	15.0	560	46		0.6
					66	1.5
Ø40	0.9	15.0	955	60		0.8
					80	1.7
Ø50	0.8	15.0	1075	80		1.1
					100	1.9
Ø63	0.6	15.0	1433	106		1.2
					126	1.8
Ø80	0.45	15.0	1911	140		1.3
					160	1.7
Ø100	0.35	15.0	2457	180		1.3
					200	1.6
Ø125	0.25	15.0	3439	230		1.2
					250	1.5
Ø160	0.15	15.0	5732	300		1.0
					320	1.1
Ø200	0.1	15.0	8599	380		0.8
					400	0.9

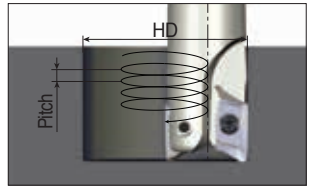
Ramping Data

CHASEALU

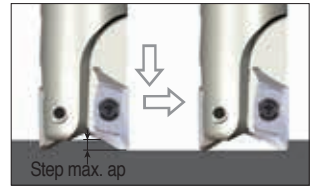
Straight ramping



Helical ramping



Step down



XEVT 16: 0.4R-1.6R

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (Aº)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø25	23.5	16	37	29.1		4.8	4
					50	13.6	4
Ø32	14.5	16	62	43.1		7.7	4
					64	13.6	4
Ø40	10.0	16	91	59.1		9.0	4
					80	13.6	4
Ø50	7.5	16	122	79.1		10.2	4
					100	13.6	4
Ø63	5.5	16	166	105.1		10.8	4
					126	13.6	4
Ø80	4.5	16	203	139.1		12.4	4
					160	13.6	4
Ø100	3.3	16	278	179.1		12.2	4
					200	13.6	4
Ø125	2.5	16	367	229.1		12.1	4
					250	13.6	4
Ø160	1.5	16	611	299.1		9.7	4
					320	11.2	4
Ø200	1.0	16	917	379.1		8.3	4
					400	9.3	4

XEVT 16: 2.0R

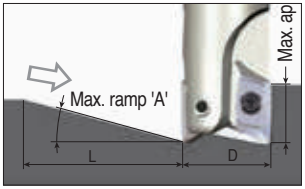
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (Aº)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø25	23.5	15.5	36	29.1		4.8	3.5
					50	13.2	3.5
Ø32	14.5	15.5	60	43.1		7.7	3.5
					64	13.2	3.5
Ø40	10.0	15.5	88	59.1		9.0	3.5
					80	13.2	3.5
Ø50	7.5	15.5	118	79.1		10.2	3.5
					100	13.2	3.5
Ø63	5.5	15.5	161	105.1		10.8	3.5
					126	13.2	3.5
Ø80	4.5	15.5	197	139.1		12.4	3.5
					160	13.2	3.5
Ø100	3.3	15.5	269	179.1		12.2	3.5
					200	13.2	3.5
Ø125	2.5	15.5	355	229.1		12.1	3.5
					250	13.2	3.5
Ø160	1.5	15.5	592	299.1		9.7	3.5
					320	11.2	3.5
Ø200	1.0	15.5	888	379.1		8.3	3.5
					400	9.3	3.5

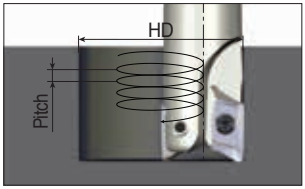
Ramping Data

CHASEALU

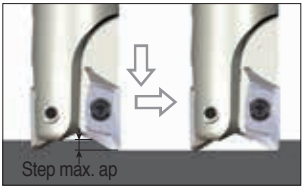
Straight ramping



Helical ramping



Step down



XEVT 16: 3.0R-3.2R

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø25	22.5	14.5	35	29.1		4.5	2.8
					50	12.3	2.8
Ø32	13.5	14.5	60	43.1		7.1	2.8
					64	12.3	2.8
Ø40	9.0	14.5	92	59.1		8.1	2.8
					80	12.3	2.8
Ø50	6.5	14.5	127	79.1		8.8	2.8
					100	12.3	2.8
Ø63	5.0	14.5	166	105.1		9.8	2.8
					126	12.3	2.8
Ø80	4.0	14.5	207	139.1		11.0	2.8
					160	12.3	2.8
Ø100	3.0	14.5	277	179.1		11.1	2.8
					200	12.3	2.8
Ø125	2.0	14.5	415	229.1		9.7	2.8
					250	11.6	2.8
Ø160	1.1	14.5	756	299.1		7.1	2.8
					320	8.2	2.8
Ø200	0.8	14.5	1039	379.1		6.7	2.8
					400	7.4	2.8

XEVT 16: 4.0R-5.0R

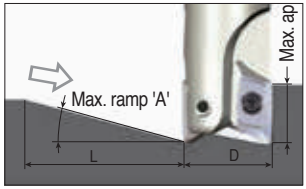
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø25	20.0	14.5	40	29.1		4.0	2.4
					50	12.3	2.4
Ø32	12.0	14.5	68	43.1		6.3	2.4
					64	12.3	2.4
Ø40	7.5	14.5	110	59.1		6.7	2.4
					80	12.3	2.4
Ø50	5.5	14.5	151	79.1		7.5	2.4
					100	12.3	2.4
Ø63	4.5	14.5	184	105.1		8.8	2.4
					126	12.3	2.4
Ø80	3.5	14.5	237	139.1		9.6	2.4
					160	12.3	2.4
Ø100	3.0	14.5	277	179.1		11.1	2.4
					200	12.3	2.4
Ø125	2.0	14.5	415	229.1		9.7	2.4
					250	11.6	2.4
Ø160	1.0	14.5	831	299.1		6.5	2.4
					320	7.5	2.4
Ø200	0.7	14.5	1187	379.1		5.8	2.4
					400	6.5	2.4

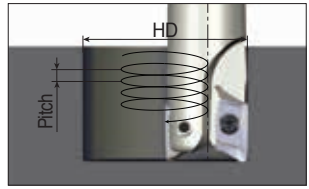
Ramping Data

CHASEALU

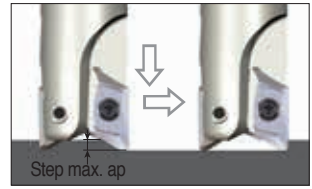
Straight ramping



Helical ramping



Step down



XEVT 22: 0.5R-0.8R

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø32	20.0	21	58	38.5		6.3	4.7
					64	17.9	4.7
Ø40	14.0	21	84	54.5		9.6	4.7
					80	17.9	4.7
Ø50	9.5	21	126	74.5		10.9	4.7
					100	17.9	4.7
Ø63	7.0	21	171	100.5		12.3	4.7
					126	17.9	4.7
Ø80	5.0	21	240	134.5		12.7	4.7
					160	17.9	4.7
Ø100	3.7	21	325	174.5		12.9	4.7
					200	17.3	4.7
Ø125	2.6	21	463	224.5		12.1	4.7
					250	15.1	4.7
Ø200	1.6	21	752	374.5		13.0	4.7
					400	14.9	4.7

XEVT 22: 1.6R-2.0R

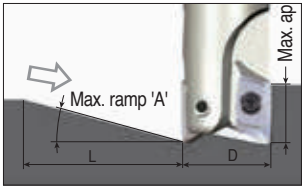
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø32	19.5	20.3	57	38.5		6.1	4.2
					64	17.3	4.2
Ø40	13.5	20.3	85	54.5		9.3	4.2
					80	17.3	4.2
Ø50	9.5	20.3	121	74.5		10.9	4.2
					100	17.3	4.2
Ø63	6.7	20.3	173	100.5		11.8	4.2
					126	17.3	4.2
Ø80	4.7	20.3	247	134.5		12.0	4.2
					160	17.3	4.2
Ø100	3.5	20.3	332	174.5		12.2	4.2
					200	16.3	4.2
Ø125	2.5	20.3	465	224.5		11.6	4.2
					250	14.6	4.2
Ø200	1.5	20.3	776	374.5		12.2	4.2
					400	14.0	4.2

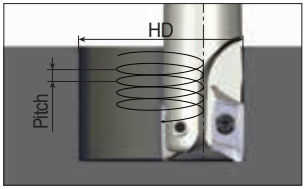
Ramping Data

CHASEALU

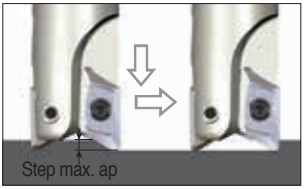
Straight ramping



Helical ramping



Step down



XEVT 22: 3.0R-4.0R

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø32	18.5	19.5	58	38.5		5.8	3.3
					64	16.6	3.3
Ø40	12.5	19.5	88	54.5		8.6	3.3
					80	16.6	3.3
Ø50	8.5	19.5	131	74.5		9.8	3.3
					100	16.6	3.3
Ø63	5.5	19.5	203	100.5		9.6	3.3
					126	16.2	3.3
Ø80	4.0	19.5	279	134.5		10.2	3.3
					160	14.9	3.3
Ø100	3.0	19.5	372	174.5		10.4	3.3
					200	14.0	3.3
Ø125	2.0	19.5	559	224.5		9.3	3.3
					250	11.6	3.3
Ø200	1.0	19.5	1118	374.5		8.1	3.3
					400	9.3	3.3

XEVT 22: 5.0R

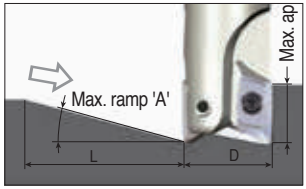
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø32	17.5	19	60	38.5		5.5	2.8
					64	16.2	2.8
Ø40	11.5	19	93	54.5		7.9	2.8
					80	16.2	2.8
Ø50	7.5	19	144	74.5		8.6	2.8
					100	16.2	2.8
Ø63	5.0	19	217	100.5		8.8	2.8
					126	14.7	2.8
Ø80	3.5	19	311	134.5		8.9	2.8
					160	13.1	2.8
Ø100	2.5	19	435	174.5		8.7	2.8
					200	11.6	2.8
Ø125	1.7	19	641	224.5		7.9	2.8
					250	9.9	2.8
Ø200	0.8	19	1361	374.5		6.5	2.8
					400	7.4	2.8

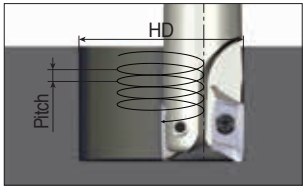
Ramping Data

CHASEALU

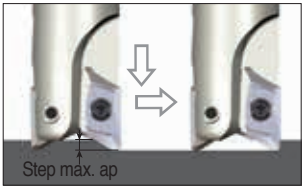
Straight ramping



Helical ramping



Step down



XEVT 22: 6.4R

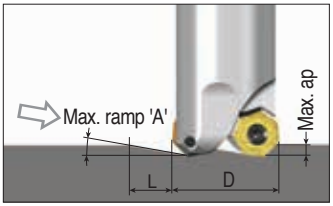
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø32	16	18.2	64	38.5		5.0	2.1
					64	15.5	2.1
Ø40	10	18.2	103	54.5		6.8	2.1
					80	15.5	2.1
Ø50	6.5	18.2	160	74.5		7.4	2.1
					100	15.2	2.1
Ø63	4.5	18.2	231	100.5		7.9	2.1
					126	13.2	2.1
Ø80	3.0	18.2	347	134.5		7.6	2.1
					160	11.2	2.1
Ø100	2.0	18.2	521	174.5		6.9	2.1
					200	9.3	2.1
Ø125	1.5	18.2	695	224.5		7.0	2.1
					250	8.7	2.1
Ø200	0.7	18.2	1490	374.5		5.7	2.1
					400	6.5	2.1

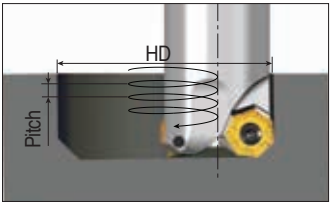
Ramping Data

CHASE HEPTA

Straight ramping



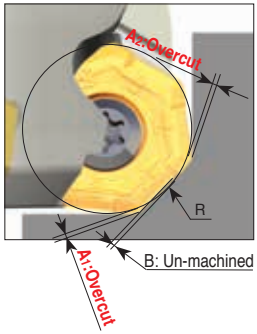
Helical ramping



7EMT 06 (unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø32	29	3.2	6	45.5		3.2
					64	3.2
Ø40	15.5	3.2	12	61.5		3.2
					80	3.2
Ø50	9.5	3.2	19	81.5		3.2
					100	3.2
Ø63	5.5	3.2	33	107.5		3.2
					126	3.2
Ø80	4.0	3.2	46	141.5		3.2
					160	3.2
Ø100	3.0	3.2	61	181.5		3.2
					200	3.2
Ø125	2.0	2.3	66	231.5		3.2
					250	3.2

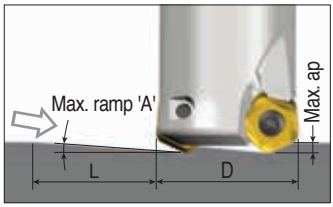
Programming technical data



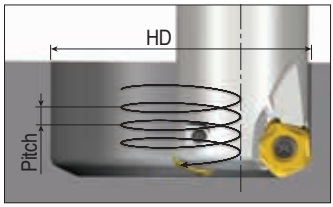
	R Program	A Over cut		B Un-machined
		A_1	A_2	B
7EMT 06	3	0	0	1.77
	4.5	0	0	1.51
	5	0.03	0.02	0.94
	6	0.21	0.19	0.53

:Recommended program 'R'

Straight ramping



Helical ramping

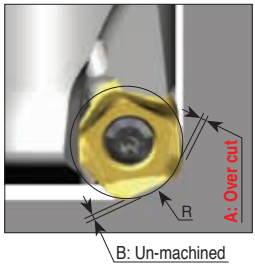


PTKU 05

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø20	1.3	1.5	66	33		0.7
					40	0.9
Ø25	1.1	1.5	78	43		0.8
					50	1.0
Ø26	1.0	1.5	86	45		0.8
					52	0.9
Ø32	1.0	1.5	86	57		1.0
					64	1.1
Ø33	1.0	1.5	86	59		1.0
					66	1.2
Ø40	0.8	1.5	101	73		1.1
					80	1.2
Ø50	0.7	1.5	123	93		1.1
					100	1.2
Ø52	0.7	1.5	123	97		1.2
					104	1.3
Ø63	0.6	1.5	132	119		1.3
					126	1.4
Ø66	0.6	1.5	143	125		1.3
					132	1.4

Programming technical data

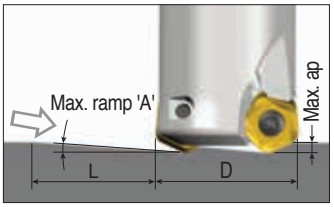


	R Program	A Over cut	B Un-machined
PTKU 05	2.5	0.00	0.83
	2.7	0.00	0.76
	3.0	0.04	0.66

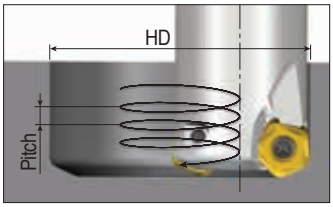
: Recommended program 'R'

Ramping Data

Straight ramping



Helical ramping

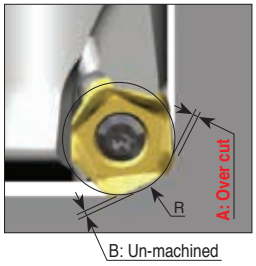


PTKU 10

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø40	1.5	3.0	111	63		1.7
					80	2.2
Ø50	1.9	3.0	88	83		2.8
					100	3.0
Ø63	1.7	3.0	101	109		3.0
					126	3.0
Ø66	2.2	3.0	78	115		3.0
					132	3.0
Ø80	1.5	3.0	115	143		3.0
					160	3.0
Ø100	1.1	3.0	150	183		3.0
					200	3.0
Ø125	0.8	3.0	202	233		3.0
					250	3.0
Ø160	0.6	3.0	265	303		3.0
					320	3.0
Ø200	0.5	3.0	344	383		3.0
					400	3.0

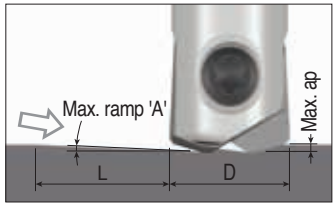
Programming technical data



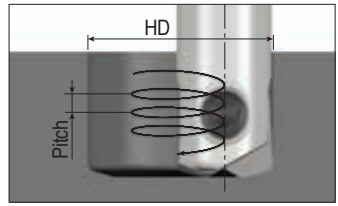
	R Program	A Over cut	B Un-machined
PTKU 10	5.5	0.00	1.45
	6.0	0.09	1.28
	6.5	0.21	1.11

: Recommended program 'R'

Straight ramping



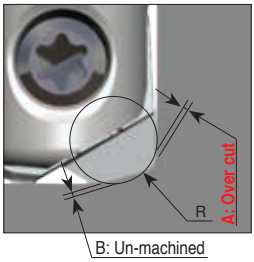
Helical ramping



HFN (unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø6	2.0	0.3	9	9.6		0.3
					11	0.3
Ø8	2.5	0.5	11	12		0.5
					15	0.5

Programming technical data

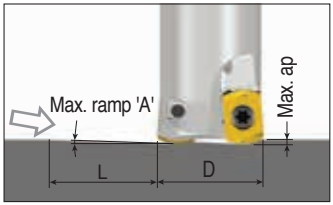


	R Program	A Over cut	B Un-machined
HFN 060	0.8	0.00	0.21
	1.0	0.03	0.16
HFN 080	0.8	0.00	0.38
	1.0	0.00	0.32
	1.2	0.02	0.27

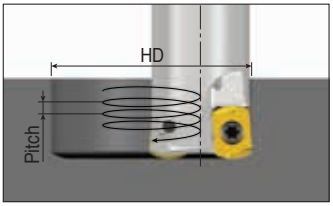
: Recommended program 'R'

Ramping Data

Straight ramping



Helical ramping

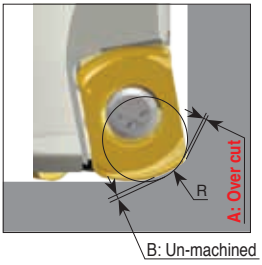


BLMP 04

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø8	0.4	0.5	72	12.6		0.1
					16	0.1
Ø10	0.6	0.5	44	16.6		0.2
					20	0.2
Ø11	0.7	0.5	38	18.6		0.2
					22	0.3
Ø12	1.0	0.5	29	20.6		0.4
					24	0.4
Ø13	1.1	0.5	25	22.6		0.5
					26	0.5
Ø16	1.0	0.5	29	28.6		0.5
					32	0.5
Ø17	1.1	0.5	26	30.6		0.5
					34	0.5
Ø20	1.0	0.5	27	36.6		0.5
					40	0.5
Ø21	0.7	0.5	38	38.6		0.5
					42	0.5
Ø25	0.7	0.5	38	46.6		0.5
					50	0.5
Ø32	0.6	0.5	48	60.6		0.5
					64	0.5

Programming technical data



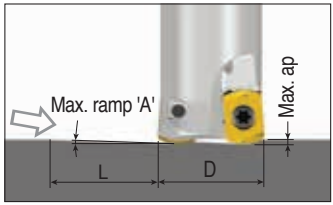
	R Program	A Over cut	B Un-machined
BLMP 04	0.8	0.00	0.28
	0.9	0.00	0.25
	1.0	0.08	0.22

: Recommended program 'R'

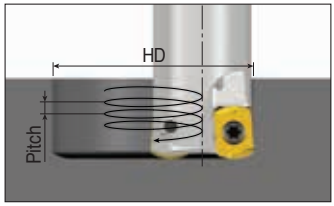
Ramping Data

CHASE4FEED

Straight ramping



Helical ramping

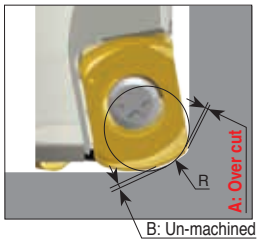


BLMP 06

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø16	2.0	0.7	13	23		0.7
					32	0.7
Ø17	2.0	0.7	15	25		0.7
					34	0.7
Ø18	2.3	0.7	16	27		0.7
					36	0.7
Ø20	1.5	1.0	38	31		0.8
					40	1.0
Ø21	1.5	1.0	38	33		0.8
					42	1.0
Ø22	1.5	1.0	38	35		1.0
					44	1.0
Ø25	1.3	1.0	41	41		1.0
					50	1.0
Ø26	1.2	1.0	44	43		1.0
					52	1.0
Ø30	1.0	1.0	52	51		1.0
					60	1.0
Ø32	0.9	1.0	57	55		1.0
					64	1.0
Ø33	0.9	1.0	57	57		1.0
					66	1.0
Ø35	0.8	1.0	57	61		1.0
					70	1.0
Ø40	0.7	1.0	64	71		1.0
					80	1.0
Ø42	0.7	1.0	72	75		1.0
					84	1.0
Ø50	0.6	1.0	96	91		1.0
					100	1.0
Ø52	0.6	1.0	96	95		1.0
					104	1.0
Ø63	0.5	1.0	115	117		1.0
					126	1.0
Ø66	0.5	1.0	115	123		1.0
					132	1.0

Programming technical data



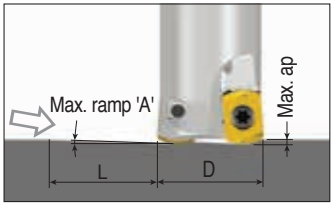
	R Program	A Over cut	B Un-machined
BLMP 06 (Ø16, Ø17, Ø18)	1.5	0	0.35
	2.0	0.1	0.22
	2.5	0.27	0.1
BLMP 06 (Ø20-)	2.0	0	0.42
	2.5	0.12	0.26
	3.0	0.29	0.17

: Recommended program 'R'

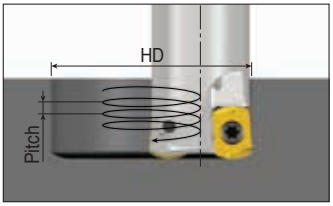
Ramping Data

CHASE4FEED

Straight ramping



Helical ramping

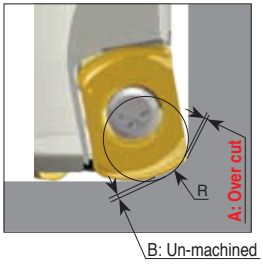


BLMP 09

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø25	2.2	1.5	39	42		1.5
					50	1.5
Ø26	2.2	1.5	39	44		1.5
					52	1.5
Ø30	2.0	1.5	43	52		1.5
					60	1.5
Ø32	2.0	1.5	43	56		1.5
					64	1.5
Ø33	2.0	1.5	43	58		1.5
					66	1.5
Ø35	2.0	1.5	43	60		1.5
					70	1.5
Ø40	1.5	1.5	57	72		1.5
					80	1.5
Ø42	1.5	1.5	57	76		1.5
					84	1.5
Ø50	1.0	1.5	86	92		1.5
					100	1.5
Ø52	1.0	1.5	86	96		1.5
					104	1.5
Ø63	0.9	1.5	96	118		1.5
					126	1.5
Ø66	0.9	1.5	96	124		1.5
					132	1.5
Ø80	0.8	1.5	107	152		1.5
					160	1.5
Ø100	0.7	1.5	123	192		1.5
					200	1.5
Ø125	0.4	1.5	215	240		1.5
					250	1.5

Programming technical data



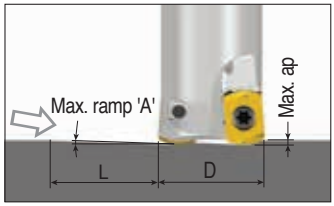
	R Program	A Over cut	B Un-machined
BLMP 09	2.5	0	0.61
	3.0	0.09	0.45
	3.5	0.24	0.30
	4.0	0.41	0.17
	3.0	0.36	0.04

: Recommended program 'R'

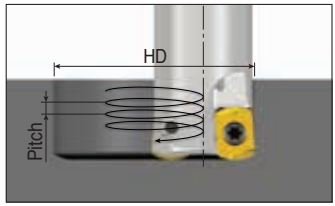
Ramping Data

CHASE4FEED

Straight ramping



Helical ramping

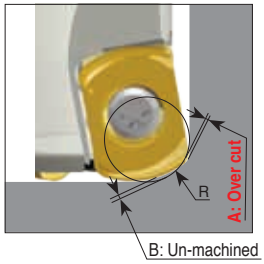


BLMP 11

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø30	0.50	2.0	229	41		0.3
					60	0.7
Ø32	0.50	2.0	229	45		0.3
					64	0.7
Ø33	0.45	2.0	255	47		0.3
					66	0.7
Ø35	0.50	2.0	229	51		0.4
					70	0.8
Ø40	0.55	2.0	208	61		0.5
					80	1.0
Ø42	0.50	2.0	229	65		0.5
					84	1.0
Ø50	0.50	2.0	229	81		0.7
					100	1.2
Ø52	0.45	2.0	255	85		0.7
					104	1.1
Ø63	0.45	2.0	255	107		0.9
					126	1.3
Ø66	0.40	2.0	287	113		0.9
					132	1.2
Ø80	0.35	2.0	328	141		1.0
					160	1.3
Ø100	0.30	2.0	382	181		1.1
					200	1.4
Ø125	0.25	2.0	459	231		1.2
					250	1.5
Ø160	0.20	2.0	573	301		1.3
					320	1.5
Ø200	0.15	2.0	764	381		1.3
					400	1.4

Programming technical data



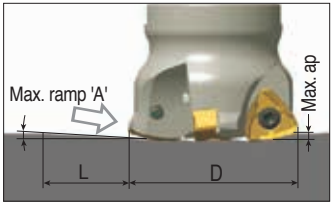
	R Program	A Over cut	B Un-machined
BLMP 11	2.4	0.00	1.09
	3.0	0.00	0.90
	3.2	0.18	0.85

: Recommended program 'R'

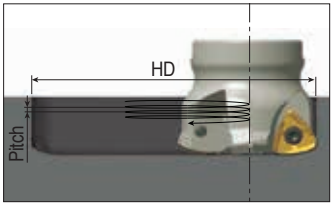
Ramping Data

CHASE2FEED

Straight ramping



Helical ramping

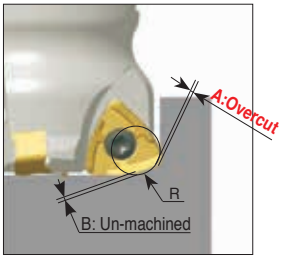


BLMP 13

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø32	0.8	2.0	143	50		0.7
					64	0.9
Ø33	1.1	2.0	104	52		1.0
					66	1.3
Ø35	1.1	2.0	104	56		1.1
					70	1.3
Ø40	1.2	2.0	96	66		1.4
					80	1.7
Ø42	1.1	2.0	104	70		1.3
					84	1.6
Ø50	0.8	2.0	143	86		1.2
					100	1.4
Ø52	0.8	2.0	143	90		1.3
					104	1.5
Ø63	0.6	2.0	191	112		1.2
					126	1.3
Ø66	0.6	2.0	191	118		1.2
					132	1.4
Ø80	0.5	2.0	229	146		1.3
					160	1.4
Ø100	0.4	2.0	287	186		1.3
					200	1.4
Ø125	0.3	2.0	382	236		1.2
					250	1.3
Ø160	0.3	2.0	382	306		1.6
					320	1.7
Ø200	0.2	2.0	573	386		1.3
					400	1.4
Ø250	0.2	2.0	573	486		1.7
					500	1.7

Programming technical data

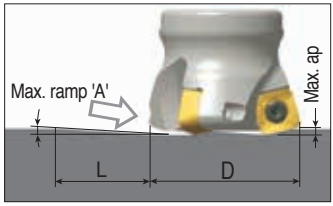


	R Program	A Over cut	B Un-machined
BLMP 13	3.0	0	1.31
	3.5	0	1.17
	4.0	0.04	1.03
	4.5	0.15	0.89
	5.0	0.3	0.76

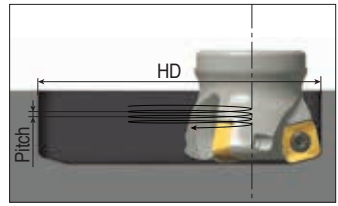
: Recommended program 'R'

Ramping Data

Straight ramping



Helical ramping

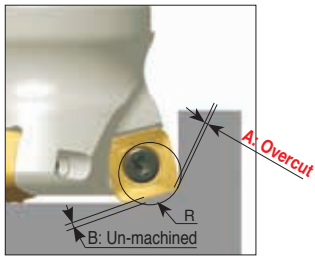


SBMT 06

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø16	2.2	1.0	25.5	22.8		0.7
					32	1.0
Ø17	2.4	1.0	23.4	24.8		0.9
					34	1.0
Ø20	3.2	1.0	17.9	30.8		1.0
					40	1.0
Ø21	3.1	1.0	18.5	32.8		1.0
					42	1.0
Ø25	2.4	1.0	23.4	40.8		1.0
					50	1.0
Ø32	1.8	1.0	31.8	54.8		1.0
					64	1.0
Ø40	1.3	1.0	42.5	70.8		1.0
					80	1.0
Ø50	1.0	1.0	57.3	90.8		1.0
					100	1.0
Ø63	0.7	1.0	76.4	116.8		1.0
					126	1.0

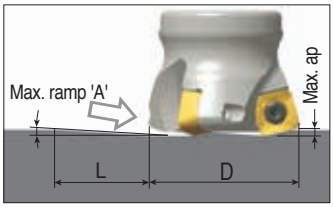
Programming technical data



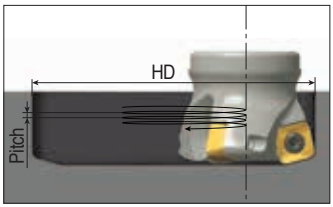
	R Program	A Over cut	B Un-machined
SBMT 06	1.8	0	0.81
	2.0	0	0.77
	2.2	0.01	0.73

:Recommended program 'R'

Straight ramping



Helical ramping

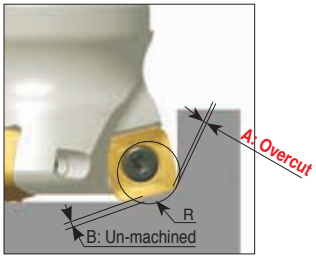


SBMT 09

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (Aº)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø25	1.6	1.2	43	36		1
					50	1.2
Ø26	1.7	1.2	40	38		1.1
					52	1.2
Ø30	3.1	1.2	22	46		1.2
					60	1.2
Ø32	3.9	1.2	18	50		1.2
					64	1.2
Ø33	3.7	1.2	19	52		1.2
					66	1.2
Ø35	3.4	1.2	18	56		1.2
					70	1.2
Ø40	2.8	1.2	25	66		1.2
					80	1.2
Ø42	2.6	1.2	26	70		1.2
					84	1.2
Ø50	2.0	1.2	34	86		1.2
					100	1.2
Ø52	1.9	1.2	38	90		1.2
					104	1.2
Ø63	1.5	1.2	43	112		1.2
					126	1.2
Ø66	1.1	1.2	63	118		1.2
					132	1.2
Ø80	1.2	1.2	63	146		1.2
					160	1.2

Programming technical data

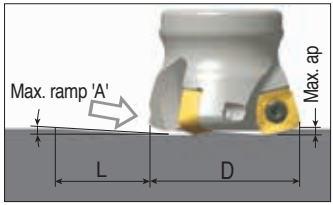


	R Program	A Over cut	B Un-machined
SBMT 09	3.5	0.1	0.81
	3	0	0.9
	2.5	0	0.98
	2	0	1.1

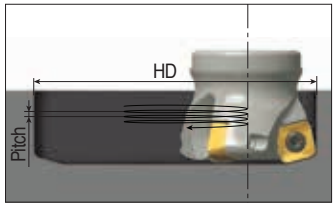
:Recommended program 'R'

Ramping Data

Straight ramping



Helical ramping

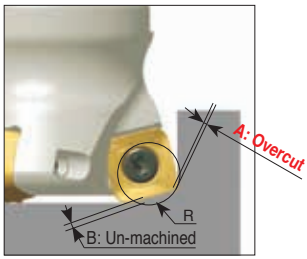


SBMT 13

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø32	7.0	2.0	16	47		2.0
					64	2.0
Ø33	6.9	2.0	17	49		2.0
					66	2.0
Ø35	6.4	2.0	18	53		2.0
					70	2.0
Ø40	5.3	2.0	22	63		2.0
					80	2.0
Ø42	4.4	2.0	26	67		2.0
					84	2.0
Ø50	4.3	2.0	27	83		2.0
					100	2.0
Ø52	4.0	2.0	29	87		2.0
					104	2.0
Ø63	2.9	2.0	40	109		2.0
					126	2.0
Ø80	2.0	2.0	57	143		2.0
					160	2.0
Ø100	1.5	2.0	76	183		2.0
					200	2.0
Ø125	1.1	2.0	104	233		2.0
					250	2.0
Ø160	0.8	2.0	104	303		2.0
					320	2.0
Ø200	0.6	2.0	127	383		2.0
					400	2.0
Ø250	0.5	2.0	164	483		2.0
					500	2.0

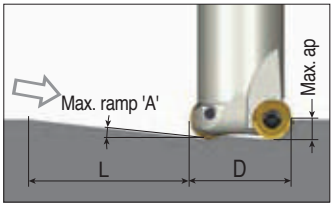
Programming technical data



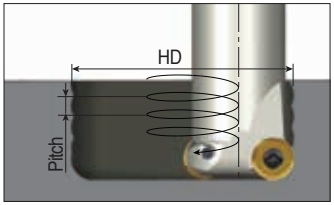
	R Program	A Over cut	B Un-machined
SBMT 13	4.0	0	1.62
	4.5	0	1.51
	5.0	0.04	1.4
	5.5	0.14	1.29
	6.0	0.28	1.18

:Recommended program 'R'

Straight ramping



Helical ramping



RNMU 10

(unit: mm)

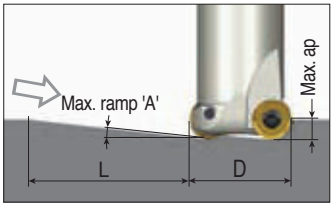
Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (Aº)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø25	1.1	5.0	261	33		0.4
					50	1.3
Ø26	1.1	5.0	261	35		0.5
					52	1.3
Ø32	0.9	5.0	318	47		0.6
					64	1.3
Ø33	0.9	5.0	318	49		0.7
					66	1.4
Ø40	0.9	5.0	318	63		1.0
					80	1.7
Ø42	0.9	5.0	318	67		1.0
					84	1.8
Ø50	0.7	5.0	409	83		1.1
					100	1.6
Ø52	0.8	5.0	358	87		1.3
					104	1.9

RNMU 12

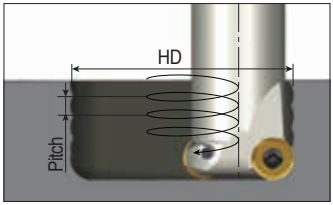
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (Aº)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø32	1.4	6.0	246	42		0.7
					64	2.1
Ø33	1.4	6.0	246	44		0.7
					66	2.2
Ø40	1.3	6.0	265	58		1.1
					80	2.4
Ø50	1.0	6.0	344	78		1.3
					100	2.3
Ø52	1.0	6.0	344	82		1.4
					104	2.4
Ø63	1.0	6.0	344	104		1.9
					126	2.9
Ø66	1.0	6.0	344	110		2.0
					132	3.1
Ø80	0.9	6.0	382	138		2.4
					160	3.4
Ø100	0.7	6.0	491	178		2.5
					200	3.3

Straight ramping



Helical ramping



RNMU 16

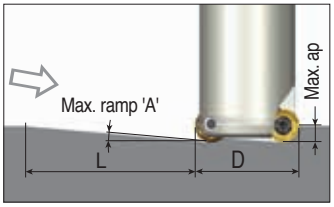
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø40	1.4	8.0	328	52		0.8
					80	2.6
Ø42	1.4	8.0	328	56		0.9
					84	2.7
Ø50	1.3	8.0	353	72		1.3
					100	3.0
Ø52	1.0	8.0	459	76		1.1
					104	2.4
Ø63	1.0	8.0	459	98		1.6
					126	2.9
Ø66	1.0	8.0	459	104		1.8
					132	3.1
Ø80	1.0	8.0	459	132		2.4
					160	3.7
Ø100	0.9	8.0	510	172		3.0
					200	4.2
Ø125	0.9	8.0	510	222		4.1
					250	5.2

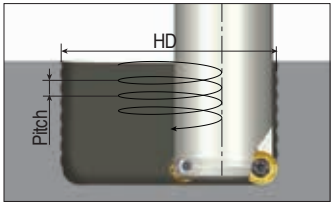
Ramping Data

CHASEMOLD

Straight ramping



Helical ramping



RYM(H)X-08

(unit: mm)

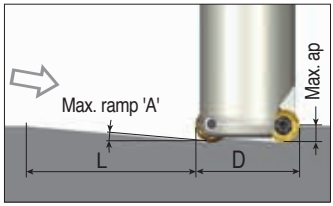
Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø16	2.5	4.0	92	18		0.2
					32	1.9
Ø17	2.5	4.0	92	20		0.3
					34	2.0
Ø18	2.5	4.0	92	22		0.5
					36	2.1
Ø20	4.0	4.0	57	26		1.1
					40	3.4
Ø21	4.0	4.0	57	28		1.3
					42	3.4
Ø25	4.0	4.0	57	36		2.1
					50	3.4
Ø26	4.0	4.0	57	38		2.2
					52	3.4
Ø32	4.0	4.0	57	50		3.4
					64	3.4
Ø40	7.0	4.0	33	66		3.4
					80	3.4

RYMX-10

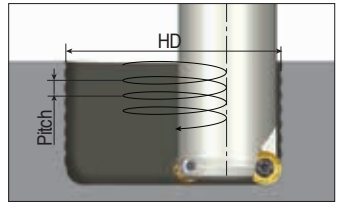
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø20	4.5	5.0	64	22		0.4
					40	4.2
Ø21	4.5	5.0	64	24		0.6
					42	4.4
Ø25	5.0	5.0	57	32		1.6
					50	4.3
Ø26	5.0	5.0	57	34		1.9
					52	4.3
Ø32	5.0	5.0	57	46		3.3
					64	4.3
Ø35	5.0	5.0	57	52		4.0
					70	4.3
Ø40	5.0	5.0	57	62		4.3
					80	4.3
Ø42	5.0	5.0	57	66		4.3
					84	4.3
Ø50	6.5	5.0	44	82		4.3
					100	4.3
Ø52	6.0	5.0	48	86		4.3
					104	4.3
Ø66	4.5	5.0	64	114		4.3
					132	4.3

Straight ramping



Helical ramping



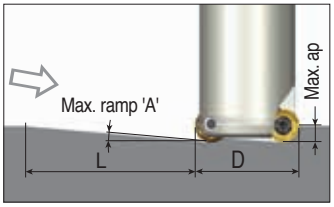
RYMX-12 (unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø25	6.0	6.0	57	28		0.8
					50	5.1
Ø26	6.0	6.0	57	30		1.1
					52	5.1
Ø32	12.0	6.0	28	42		5.1
					64	5.1
Ø33	12.0	6.0	28	44		5.1
					66	5.1
Ø35	12.0	6.0	28	48		5.1
					70	5.1
Ø40	10.0	6.0	34	58		5.1
					80	5.1
Ø42	12.0	6.0	28	62		5.1
					84	5.1
Ø50	9.0	6.0	38	78		5.1
					100	5.1
Ø52	8.0	6.0	43	82		5.1
					104	5.1
Ø55	8.0	6.0	43	88		5.1
					110	5.1
Ø63	7.0	6.0	49	104		5.1
					126	5.1
Ø66	6.5	6.0	53	110		5.1
					132	5.1
Ø80	4.5	6.0	76	138		5.1
					160	5.1
Ø100	3.5	6.0	98	178		5.1
					200	5.1
Ø125	2.5	6.0	137	228		5.1
					250	5.1

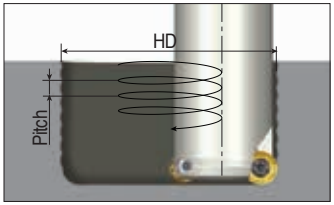
Ramping Data

CHASEMOLD

Straight ramping



Helical ramping



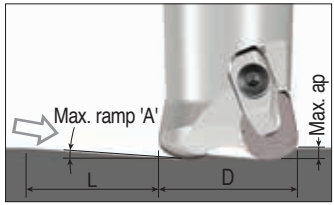
RYMX-16 (unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (Aº)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø32	8.0	8.0	57	34		0.7
					64	6.8
Ø40	9.5	8.0	48	50		4.5
					80	6.8
Ø42	9.0	8.0	51	54		5.1
					84	6.8
Ø50	9.0	8.0	51	70		6.8
					100	6.8
Ø52	9.0	8.0	51	74		6.8
					104	6.8
Ø63	8.5	8.0	54	96		6.8
					126	6.8
Ø66	8.5	8.0	54	102		6.8
					132	6.8
Ø80	6.0	8.0	76	130		6.8
					160	6.8
Ø100	5.0	8.0	91	170		6.8
					200	6.8
Ø125	3.5	8.0	131	220		6.8
					250	6.8
Ø160	3.5	8.0	131	290		6.8
					320	6.8

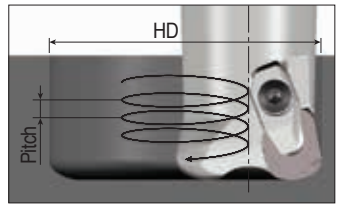
RYMX-20 (unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (Aº)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø50	8.0	10.0	71	62		4.5
					100	8.5
Ø63	12.5	10.0	45	88		8.5
					126	8.5
Ø80	8.5	10.0	67	122		8.5
					160	8.5
Ø100	6.5	10.0	88	162		8.5
					200	8.5
Ø125	4.5	10.0	127	212		8.5
					250	8.5
Ø160	4.0	10.0	143	282		8.5
					320	8.5
Ø200	2.5	10.0	229	362		8.5
					400	8.5
Ø250	2.4	10.0	239	462		8.5
					500	8.5

Straight ramping



Helical ramping

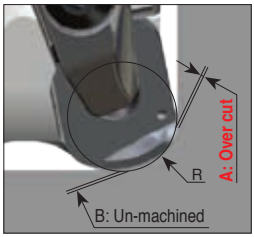


BNGX 09

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø25	1.2	1.5	55	39		0.9
					50	1.1
Ø32	0.6	1.5	132	53		0.6
					64	0.7
Ø40	0.6	1.5	143	69		0.7
					80	0.8
Ø50	0.5	1.5	156	89		0.9
					100	1.0

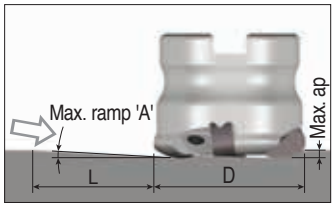
Programming technical data



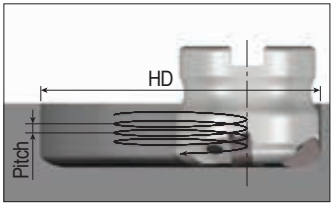
	R Program	A Over cut	B Un-machined
BNGX 09	3.0	0.00	0.61
	3.4	0.00	0.46
	3.5	0.01	0.43
	4.0	0.12	0.26

: Recommended program 'R'

Straight ramping



Helical ramping

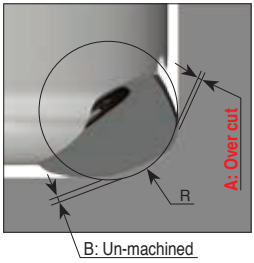


BNGX 12

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (Aº)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø50	0.6	2.5	239	84		1.1
					100	1.0
Ø63	0.5	2.5	287	110		1.1
					126	1.1
Ø80	0.4	2.5	318	144		1.3
					160	1.3

Programming technical data

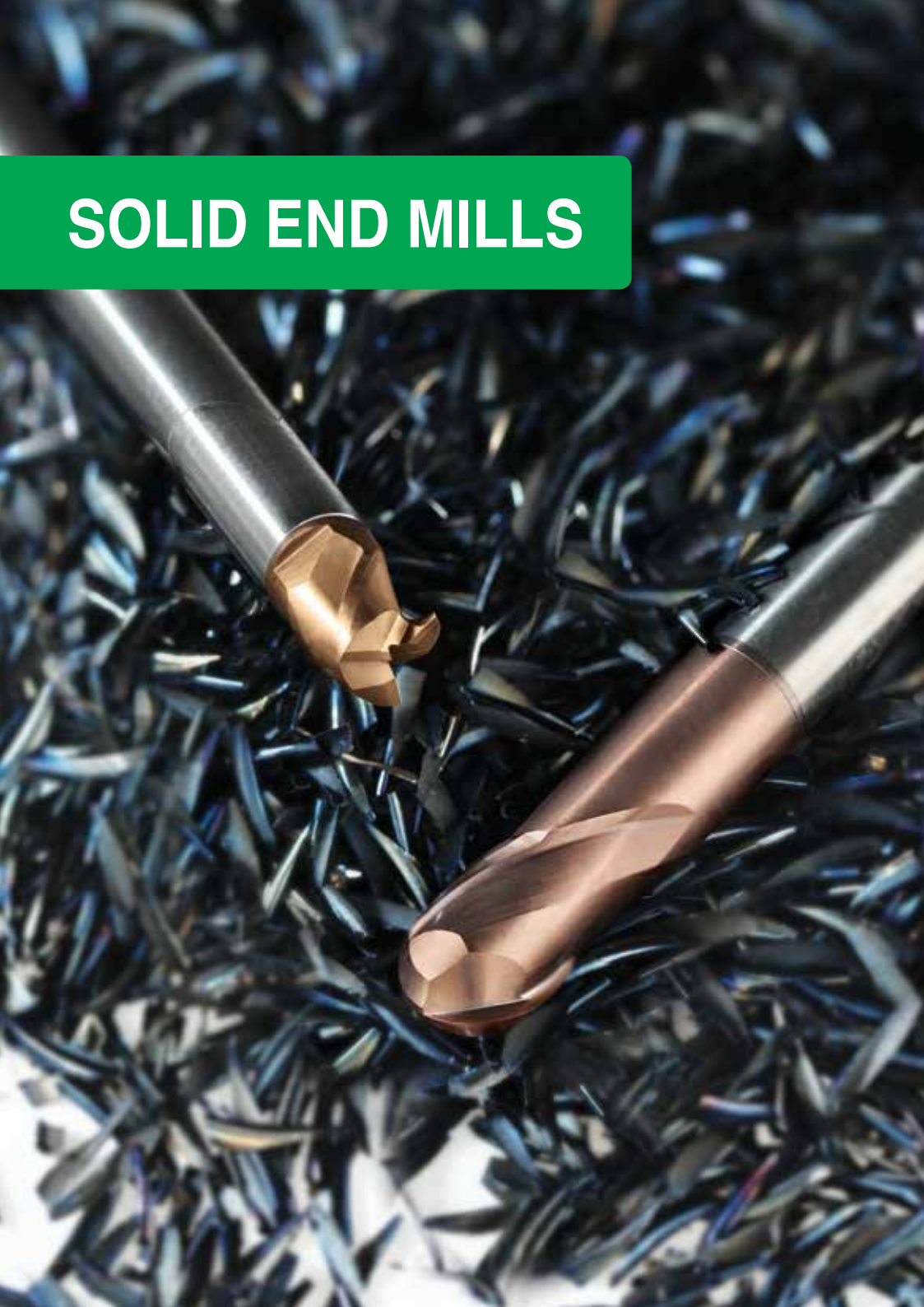


	R Program	A Over cut	B Un-machined
BNGX 12	4.0	0.00	1.18
	4.5	0.00	1.00
	5.0	0.03	0.84

: Recommended program 'R'

INDUSTRY4.0

SOLID END MILLS



SOLID END MILLS

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Guide to Icons



› Flutes



› Helix Angle



› Cutting Condition Page



› Ball Nose



› Corner Radius



› Wave Cutting Edge



› Head Page



› Wrench



Solid End Mill Line	
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MAXI-RUSH Line



Tool Selection Guide

MAXIRUSH

Modular solid carbide end mill heads

Series	MXEE-03	MXEE(D)-04	MXEE-03	MXEE-I04	MXEE-R	MXEE-C04
						
Type	Flat	Radius	Radius	Chamfer/Radius	Chamfer	Chamfer
Flute	3	4	3	4	4-6	4
Grades	TT5523	TT5523	TT5523	TT5523	TT5523	TT5523
Material	P M K N S H ● ○ ● ○	P M K N S H ● ○ ● ○	P M K N S H ● ○ ● ○	P M K N S H ● ○ ● ○	P M K N S H ● ○ ● ○	P M K N S H ● ○ ● ○
Diameter Range (mm)	Ø8 - Ø12	Ø6 - Ø20	Ø7.7 - Ø19.7	Ø8 - Ø25	Ø8 - Ø25	Ø8 - Ø25
Pages	F10	F11	F12	F12	F13	F13

Series	MXEE-A02	MXEE-A03	MXEE(D)-06	MXED-08/10	MXRB-02	MXRD-06
						
Type	Radius	Radius	Radius	Radius	Radius	Radius
Flute	2	3	6	8,10	2	6
Grades	UF10	UF10	TT5523	TT5523	TT5523	TT5523
Material	P M K N S H ●	P M K N S H ●	P M K N S H ○ ○ ● ●	P M K N S H ○ ○ ● ●	P M K N S H ● ○ ● ○	P M K N S H ○ ● ●
Diameter range (mm)	Ø10 - Ø12	Ø8 - Ø20	Ø8 - Ø12	Ø16 - Ø25	Ø20	Ø8 - Ø16
Pages	F14	F14	F15	F15	F16	F16

● Recommended, ○ Suitable

Tool Selection Guide

MAXIRUSH

Modular solid carbide end mill heads

Series	MXFX-02	MXBD-BG-02	MXBD(E)-BG-04	MXBB-SG-02	MXBE-BGA02
					
Type	Ball	Ball	Ball	Ball (Spherical)	Ball
Flute	2	2	4	2	2
Grades	TT5523	TT5523	TT5523	TT5523	UF10
Material	P M K N S H ● ○ ● ○	P M K N S H ● ○ ● ○	P M K N S H ● ○ ● ○	P M K N S H ● ○ ● ○	P M K N S H ●
Diameter range (mm)	Ø10 - Ø16	Ø8 - Ø16	Ø6 - Ø25	Ø12	Ø8 - Ø20
Pages	F17	F17	F18	F18	F19

Series	MXCP-02	MXCA-04/06	MXCW-02	MXCSL	MXCSO
					
Type	Chamfer	Chamfer	Chamfer	Lens shape	Oval shape
Flute	2	4,6	2	4	4
Grades	TT5523	TT5523	TT5523	TT5523	TT5523
Material	P M K N S H ● ○ ● ○	P M K N S H ● ○ ● ○	P M K N S H ● ○ ● ○	● ○ ● ○	● ○ ● ○
Diameter range (mm)	Ø8 - Ø16.5	Ø10 - Ø20	Ø11.8	Ø8 - Ø16	Ø8 - Ø16
Pages	F19	F20	F20	F21	F21

● Recommended, ○ Suitable

Tool Selection Guide

MAXIRUSH

Modular solid carbide end mill heads

Series	MXDP-02	MXGC-02	MXCR-02		
					
Type	Center drill	Counter Boring	Concave		
Flute	2	2	2		
Grades	TT5523	TT5523	TT5523		
Material	P M K N S H ● ○ ● ○	P M K N S H ● ○ ● ○	P M K N S H ● ○ ● ○		
Diameter range (mm)	Ø3.28 - Ø6.46	Ø8 - Ø16	Ø8 - Ø20		
Pages	F22	F22	F23		

Modular solid carbide slotting heads

Series	TST-3	TST-4/6	TST-A45	TTB-C15	TTB-06
					
Type	Slot	Slot	Slot Chamfer	Slot	Slot
Flute	3	4,6	3,4	6	6
Grades	TT5543	TT5543	TT5543	TT5543	TT5543
Material	P M K N S H ● ● ○ ○	P M K N S H ● ○ ● ○	P M K N S H ● ○ ● ○	P M K N S H ● ○ ● ○	P M K N S H ● ○ ● ○
Diameter range (mm)	Ø15.7 - Ø17.7	Ø21.7 - Ø27.7	Ø17.7 - Ø21.7	Ø13.5	Ø13.5 - Ø25
Width of cut (mm)	1.5-3.17	0.76-10.0	3.4-5.5	2	3-8
Pages	F24	F25	F26	F26	F27

● Recommended, ○ Suitable

Holders for MAXI-RUSH head

Series	MXSSD	MXSSD-W-A	MXTSD	MXTSD-W-A	MXSC-C	MXSTD
						
Shank Type	Straight & neck	Straight & neck	Straight & taper	Straight & taper	Straight	Straight
Shank material	Steel/Carbide	Tungsten	Steel/Carbide	Tungsten	Carbide	Steel
Internal coolant	X	●	X	X	●	●
Connection size	S05 - S15	S06 - S12	S05 - S15	S06	S06, S08	S05 - S10
Shank range (mm)	Ø8 - Ø25	Ø10 - Ø20	Ø12 - Ø32	Ø12 - Ø16	Ø10 - Ø12	Ø8 - Ø16
Pages	F28	F29	F30	F31	F31	F32

Adaptor for MAXI-RUSH head

Series	MXAD-M	MXER				
						
Shank Type	Adapter	Adapter				
Shank material	Steel	Steel				
Internal coolant	X	X				
Connection size	S08/M8 - M12	S05 - S08				
Shank range (mm)	-	-				
Pages	F33	F34				

Grades

MAXI-RUSH grades

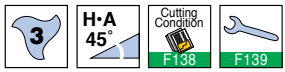
Grades	ISO	Characteristics & applications
TT5523 PVD coated	P20 – P40 M20 – M40 S20 – S40	• High speed milling of steel, stainless steed and high-temp alloy
TT5543 PVD coated	P30 – P50 M30 – M50 S30 – S50	• Interrupted and rough machining of steel, stainless steel and high-temp alloy
UF10 Uncoated	P25 – P35 M25 – M35 N25 – N35	• General machining of steel, aluminum alloys, non-ferrous materials • Submicron substrate

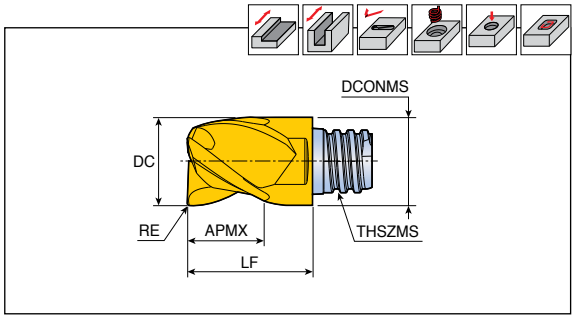
MXEE-03

MAXIRUSH

3 flute, for general purpose







Designation		Feed (mm/tooth)	Dimension (mm)						Grade
			DC	RE	APMX	THSZMS	DCONMS	LF	TT5523
MXEE	**080L05R00-03S05**	0.030-0.080	8	-	5	S05	7.7	10	●
	100L07R00-03S06	0.035-0.090	10	-	7	S06	9.7	13	●
	120L09R00-03S08	0.035-0.110	12	-	9	S08	11.7	16.5	●

• Wrench should be ordered separately

●: Standard items

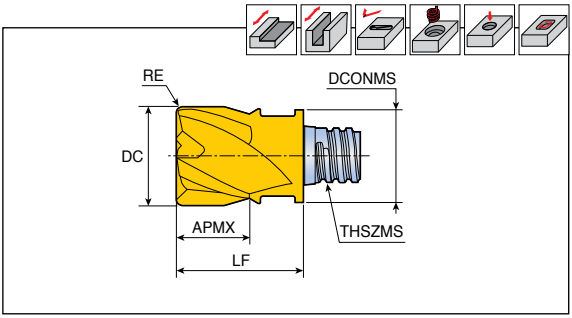
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MXEE(D)-04

MAXIRUSH

4 flute, for general purpose





4 | H·A 30° | H·A 45° | Cutting Condition F138 | F139

Designation	Feed (mm/tooth)	Dimension (mm)							Grade
		DC	RE	FHA	APMX	THSZMS	DCONMS	LF	TT5523
MXEE 060L05R00-04S05	0.025-0.060	6	-	45	5	S05	8.0	10	●
MXEE 080L05R00-04S05	0.030-0.080	8	-	45	5	S05	7.7	10	●
MXED 080L05R05-04S05	0.030-0.080	8	0.5	30	5	S05	7.7	10	●
MXED 080L05R10-04S05	0.030-0.080	8	1.0	30	5	S05	7.7	10	●
MXED 080L05R15-04S05	0.030-0.080	8	1.5	30	5	S05	7.7	10	●
MXEE 100L07R00-04S06	0.035-0.090	10	-	45	7	S06	9.7	13	●
MXED 100L07R05-04S06	0.035-0.090	10	0.5	30	7	S06	9.7	13	●
MXEE 100L07R05-04S06	0.035-0.090	10	0.5	45	7	S06	9.7	13	●
MXED 100L07R10-04S06	0.035-0.090	10	1.0	30	7	S06	9.7	13	●
MXEE 100L07R10-04S06	0.035-0.090	10	1.0	45	7	S06	9.7	13	●
MXEE 120L09R00-04S08	0.035-0.110	12	-	45	9	S08	11.7	16.5	●
MXED 120L09R05-04S08	0.035-0.110	12	0.5	30	9	S08	11.7	16.5	●
MXEE 120L09R05-04S08	0.035-0.110	12	0.5	45	9	S08	11.7	16.5	●
MXED 120L09R10-04S08	0.035-0.110	12	1.0	30	9	S08	11.7	16.5	●
MXEE 120L09R10-04S08	0.035-0.110	12	1.0	45	9	S08	11.7	16.5	●
MXEE 160L12R00-04S10	0.040-0.130	16	-	45	12	S10	15.3	20.5	●
MXED 160L12R05-04S10	0.040-0.130	16	0.5	30	12	S10	15.3	20.5	●
MXEE 160L12R05-04S10	0.040-0.130	16	0.5	45	12	S10	15.3	20.5	●
MXED 160L12R10-04S10	0.040-0.130	16	1.0	30	12	S10	15.3	20.5	●
MXEE 160L12R10-04S10	0.040-0.130	16	1.0	45	12	S10	15.3	20.5	●
MXED 160L12R15-04S10	0.040-0.130	16	1.5	30	12	S10	15.3	20.5	●
MXEE 160L12R15-04S10	0.040-0.130	16	1.5	45	12	S10	15.3	20.5	●
MXED 160L12R20-04S10	0.040-0.130	16	2.0	30	12	S10	15.3	20.5	●
MXEE 160L12R20-04S10	0.040-0.130	16	2.0	45	12	S10	15.3	20.5	●
MXEE 160L12R30-04S10	0.040-0.130	16	3.0	45	12	S10	15.3	20.5	●
MXEE 160L12R40-04S10	0.040-0.130	16	4.0	45	12	S10	15.3	20.5	●
MXEE 200L15R00-04S12	0.050-0.150	20	-	45	15	S12	18.3	25.5	●
MXED 200L15R05-04S12	0.050-0.150	20	0.5	30	15	S12	18.3	25.5	●
MXED 200L15R10-04S12	0.050-0.150	20	1.0	30	15	S12	18.3	25.5	●
MXED 200L15R20-04S12	0.050-0.150	20	2.0	30	15	S12	18.3	25.5	●
MXED 200L15R30-04S12	0.050-0.150	20	3.0	30	15	S12	18.3	25.5	●

• Wrench should be ordered separately
• FHA: Flute helix angle

●: Standard items

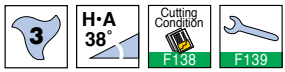
TaeguTec

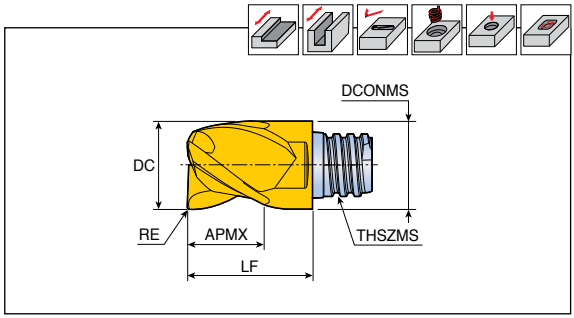
MXEE-03

MAXIRUSH

3 flute, for keyways







Designation		Feed (mm/tooth)	Dimension (mm)						Grade
			DC	RE	APMX	THSZMS	DCONMS	LF	TT5523
MXEE	077L04R02-03S05	0.030-0.080	7.7	0.2	4	S05	7.7	10	●
	097L05R03-03S06	0.035-0.090	9.7	0.3	5	S06	9.7	13	●
	117L07R03-03S08	0.035-0.110	11.7	0.3	7	S08	11.7	16.5	●
	157L08R03-03S10	0.040-0.130	15.7	0.3	8	S10	15.3	20.5	●
	197L12R04-03S12	0.050-0.150	19.7	0.4	12	S12	18.3	25.5	●

• Wrench should be ordered separately

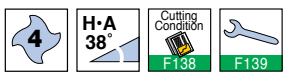
●: Standard items

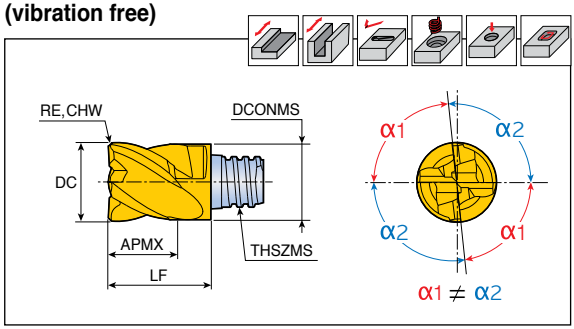
MXEE-I04

MAXIRUSH

4 flute, unequal spacing of cutting edges (vibration free)







Designation		Feed (mm/tooth)	Dimension (mm)							Grade
			DC	RE	CHW	APMX	THSZMS	DCONMS	LF	TT5523
MXEE	080L05C30I04S05	0.030-0.080	8	-	0.3	5	S05	7.7	10	●
	100L07C40I04S06	0.035-0.090	10	-	0.4	7	S06	9.7	13	●
	120L09C50I04S08	0.035-0.110	12	-	0.5	9	S08	11.7	16.5	●
	160L12C60I04S10	0.040-0.130	16	-	0.6	12	S10	15.3	20.5	●
	200L15C60I04S12	0.050-0.150	20	-	0.6	15	S12	18.3	25.5	●
	250L22C60I04S15	0.060-0.170	25	-	0.6	22	S15	23.9	37	●
	250L22R00I04S15	0.060-0.170	25	-	-	22	S15	23.9	37	●
	250L22R05I04S15	0.060-0.170	25	0.5	-	22	S15	23.9	37	●
	250L22R10I04S15	0.060-0.170	25	1.0	-	22	S15	23.9	37	●
	250L22R20I04S15	0.060-0.170	25	2.0	-	22	S15	23.9	37	●
	250L22R30I04S15	0.060-0.170	25	3.0	-	22	S15	23.9	37	●

• Wrench should be ordered separately

●: Standard items

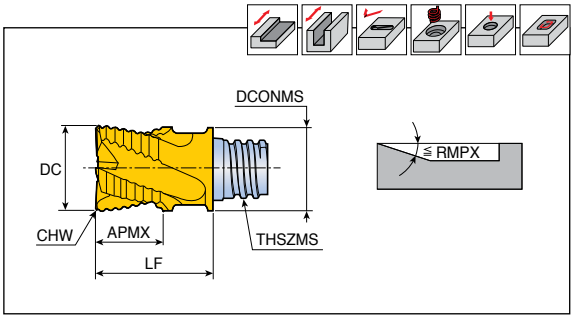
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TaeguTec Industry 4.0

MXEE-R

MAXIRUSH

4-6 flute, for roughing





4-6 | H·A 45° | Cutting Condition F138 | F139

Designation		Feed (mm/tooth)	Dimension (mm)								Grade
			DC	NOF	APMX	CHW	THSZMS	DCONMS	LF	RMPX	TT5523
MXEE	080L05C25R04S05	0.030-0.080	8	4	5	0.25	S05	7.7	10	90	●
	100L07C30R04S06	0.035-0.090	10	4	7	0.30	S06	9.7	13	90	●
	120L09C35R04S08	0.035-0.110	12	4	9	0.35	S08	11.7	16.5	90	●
	160L12C40R05S10	0.040-0.130	16	5	12	0.40	S10	15.3	20.5	7	●
	200L15C40R06S12	0.050-0.150	20	6	15	0.40	S12	18.3	25.5	3	●
	250L22C50R06S15	0.060-0.170	25	6	22	0.50	S15	23.9	37	3	●

- Wrench should be ordered separately
- RMPX: Ramping angle maximum
- NOF: Number of flutes

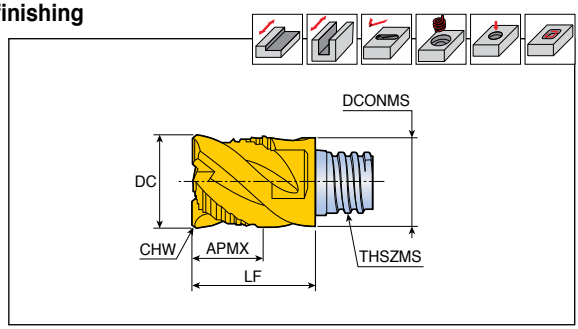
●: Standard items

MXEE-C04

MAXIRUSH

4 flute, combined edges for roughing & finishing





4 | H·A 45° | Cutting Condition F138 | F139

Designation		Feed (mm/tooth)	Dimension (mm)						Grade
			DC	APMX	CHW	THSZMS	DCONMS	LF	TT5523
MXEE	080L05C30C04S05	0.030-0.080	8	5	0.3	S05	7.7	10	●
	100L07C30C04S06	0.035-0.090	10	7	0.3	S06	9.7	13	●
	120L09C40C04S08	0.035-0.110	12	9	0.4	S08	11.7	16.5	●
	160L12C60C04S10	0.040-0.130	16	12	0.6	S10	15.3	20.5	●
	200L15C60C04S12	0.050-0.150	20	15	0.6	S12	18.3	25.5	●
	250L22C60C04S15	0.060-0.170	25	22	0.6	S15	23.9	37	●

- Wrench should be ordered separately

●: Standard items

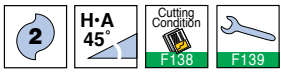
TaeguTec

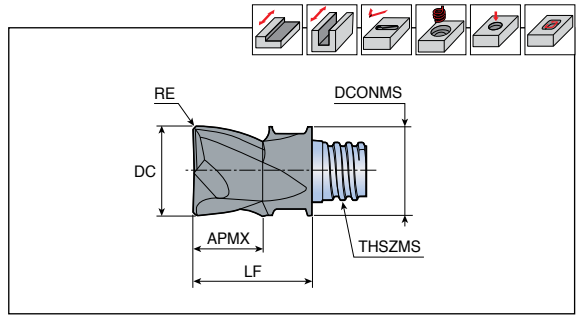
MXEE-A02

MAXIRUSH

2 flute, for aluminum machining







Designation		Feed (mm/tooth)	Dimension (mm)						Grade
			DC	RE	APMX	THSZMS	DCONMS	LF	UF10
MXEE	**100L07R05A02S06**	0.035-0.090	10	0.5	7	S06	9.7	13	●
	100L07R10A02S06	0.035-0.090	10	1.0	7	S06	9.7	13	●
	120L09R05A02S08	0.035-0.110	12	0.5	9	S08	11.7	16.5	●

• Wrench should be ordered separately

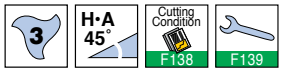
●: Standard items

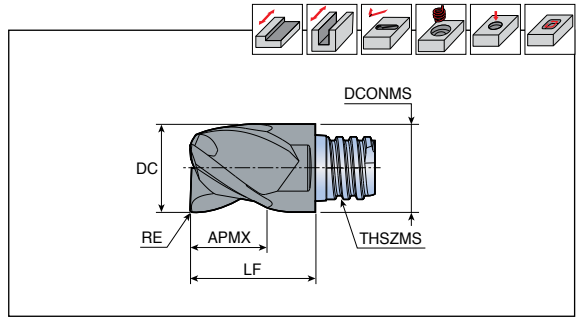
MXEE-A03

MAXIRUSH

3 flute, for aluminum machining







Designation		Feed (mm/tooth)	Dimension (mm)						Grade
			DC	RE	APMX	THSZMS	DCONMS	LF	UF10
MXEE	**080L05R05A03S05**	0.030-0.080	8	0.5	5	S05	7.7	10	●
	100L06R05A03S06	0.035-0.090	10	0.5	6	S06	9.7	13	●
	100L06R10A03S06	0.035-0.090	10	1.0	6	S06	9.7	13	●
	120L08R05A03S08	0.035-0.110	12	0.5	8	S08	11.7	16.5	●
	120L08R10A03S08	0.035-0.110	12	1.0	8	S08	11.7	16.5	●
	160L10R00A03S10	0.040-0.130	16	-	10	S10	15.3	20.5	●
	160L10R10A03S10	0.040-0.130	16	1.0	10	S10	15.3	20.5	●
	160L10R20A03S10	0.040-0.130	16	2.0	10	S10	15.3	20.5	●
	200L12R05A03S12	0.050-0.150	20	0.5	12	S12	18.3	25.5	●
	200L12R10A03S12	0.050-0.150	20	1.0	12	S12	18.3	25.5	●
	200L12R20A03S12	0.050-0.150	20	2.0	12	S12	18.3	25.5	●

• Wrench should be ordered separately

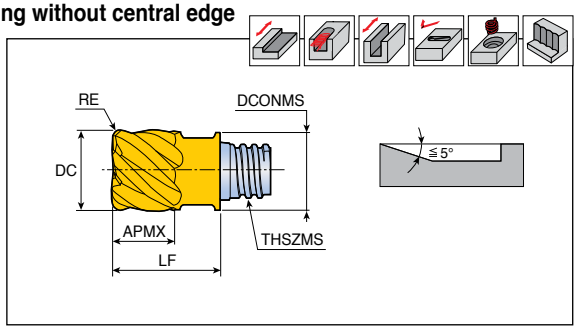
●: Standard items

MXEE(D)-06

MAXIRUSH

6 flute, for difficult-to-cut material machining without central edge





6 | H·A 30° | H·A 45° | Cutting Condition F138 | F139

Designation	Feed (mm/tooth)	Dimension (mm)							Grade
		DC	RE	FHA	APMX	THSZMS	DCONMS	LF	TT5523
MXEE 080L05R05-06S05	0.030-0.080	8	0.5	45	5	S05	7.7	10	●
MXEE 080L05R10-06S05	0.030-0.080	8	1.0	45	5	S05	7.7	10	●
MXED 100L07R05-06S06	0.035-0.090	10	0.5	30	7	S06	9.7	13	●
MXED 100L07R10-06S06	0.035-0.090	10	1.0	30	7	S06	9.7	13	●
MXEE 100L07R05-06S06	0.035-0.090	10	0.5	45	7	S06	9.7	13	●
MXEE 100L07R10-06S06	0.035-0.090	10	1.0	45	7	S06	9.7	13	●
MXEE 100L07R15-06S06	0.035-0.090	10	1.5	45	7	S06	9.7	13	●
MXED 120L09R05-06S08	0.035-0.110	12	0.5	30	9	S08	11.7	16.5	●
MXEE 120L09R00-06S08	0.035-0.110	12	-	45	9	S08	11.7	16.5	●
MXEE 120L09R10-06S08	0.035-0.110	12	1.0	45	9	S08	11.7	16.5	●
MXEE 120L09R15-06S08	0.035-0.110	12	1.5	45	9	S08	11.7	16.5	●

• Wrench should be ordered separately
• FHA : Flute Helix Angle

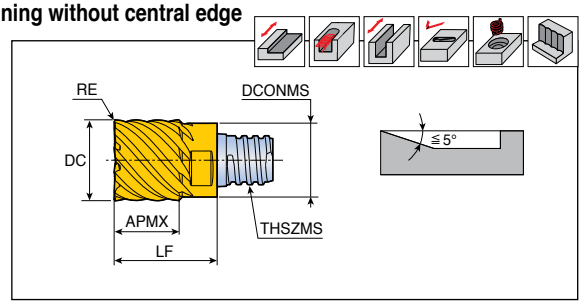
●: Standard items

MXED-08/10

MAXIRUSH

8, 10 flute, for difficult-to-cut material machining without central edge





8,10 | H·A 30° | Cutting Condition F138 | F139

Designation	Feed (mm/tooth)	Dimension (mm)							Grade
		DC	NOF	RE	APMX	THSZMS	DCONMS	LF	TT5523
MXED 160L12R05-08S10	0.040-0.130	16	8	0.5	12	S10	15.3	20.5	●
160L12R10-08S10	0.040-0.130	16	8	1.0	12	S10	15.3	20.5	●
160L12R20-08S10	0.040-0.130	16	8	2.0	12	S10	15.3	20.5	●
200L15R10-10S12	0.050-0.150	20	10	1.0	15	S12	18.3	25.5	●
200L15R20-10S12	0.050-0.150	20	10	2.0	15	S12	18.3	25.5	●
250L22R10-10S15	0.060-0.170	25	10	1.0	22	S15	23.9	37	●
250L22R20-10S15	0.060-0.170	25	10	2.0	22	S15	23.9	37	●

• Wrench should be ordered separately
• NOF: Number of flutes

●: Standard items

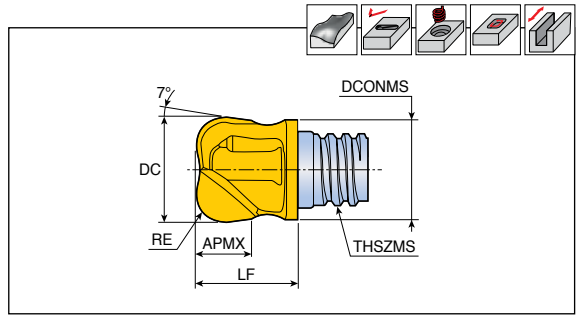
TaeguTec

MXRB-02

MAXIRUSH

2 flute, 7° back taper flute





Designation	Feed (mm/tooth)	Dimension (mm)						Grade
		DC	RE	APMX	THSZMS	DCONMS	LF	TT5523
MXRB 200L11R50-02S12	0.05-0.150	20	5	11.3	S12	18.3	17.3	●

• Wrench should be ordered separately

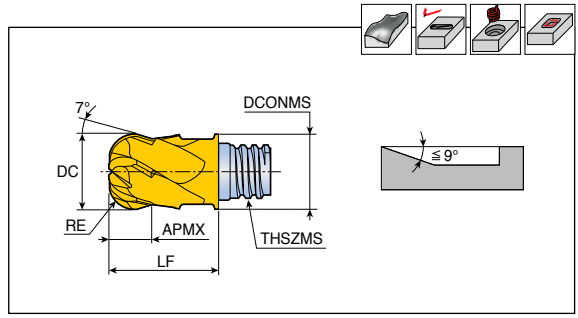
●: Standard items

MXRD-06

MAXIRUSH

6 flute, 7° back taper sided ground flute





Designation	Feed (mm/tooth)	Dimension (mm)						Grade
		DC	RE	APMX	THSZMS	DCONMS	LF	TT5523
MXRD 080L04R20-06S05	0.030-0.080	8	2	4	S05	7.7	10	●
100L05R30-06S06	0.035-0.090	10	3	5	S06	9.7	13	●
120L07R40-06S08	0.035-0.110	12	4	7	S08	11.7	16.5	●
160L09R50-06S10	0.040-0.130	16	5	9	S10	15.3	20.5	●

• Wrench should be ordered separately

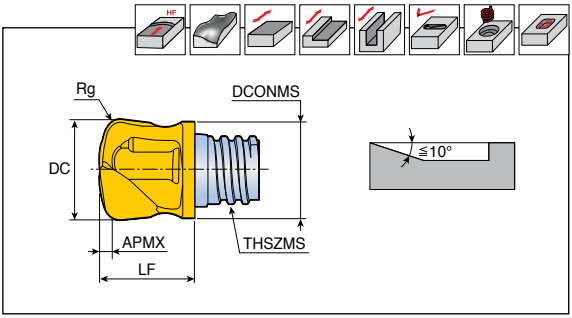
●: Standard items

MXFX-02

MAXIRUSH

2 flute, for high feed milling





Designation		Feed (mm/tooth)	Dimension (mm)						Grade
			DC	Rg	APMX	THSZMS	DCONMS	LF	TT5523
MXFX	**100L0.6R20-02S06**	0.30-0.60	10	2.0	0.6	S06	9.6	12.5	●
	120L1.0R25-02S08	0.50-1.00	12	2.5	0.68	S08	11.5	11.1	●
	160L1.1R30-02S10	0.55-1.10	16	3.0	1.1	S10	15.2	20	●

• Wrench should be ordered separately
• Rg: Radius for programmers

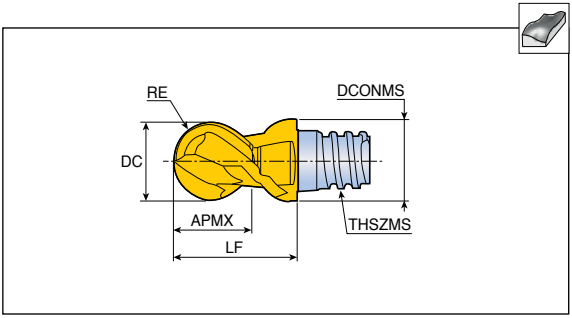
●: Standard items

MXBD-BG-02

MAXIRUSH

2 flute, for high precision machining





Designation		Feed (mm/tooth)	Dimension (mm)						Grade
			DC	RE	APMX	THSZMS	DCONMS	LF	TT5523
MXBD	**080L05-BG-02S05**	0.030-0.080	8	3.982(1)	5	S05	7.7	10	●
	100L07-BG-02S06	0.035-0.090	10	4.982(1)	7	S06	9.7	13	●
	120L09-BG-02S08	0.035-0.110	12	5.978(2)	9	S08	11.7	16.5	●
	160L09-BG-02S10	0.040-0.130	16	7.978(2)	9	S10	15.3	20.5	●

• Wrench should be ordered separately
• RE Tolerance: (1) ± 0.01, (2) ± 0.012

●: Standard items

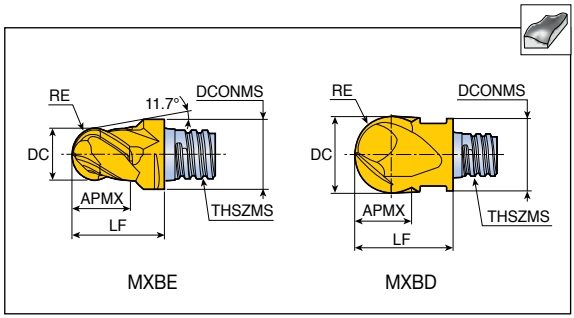
MXBD(E)-BG-04

MAXIRUSH

4 flute, for high precision machining







Designation		Feed (mm/tooth)	Dimension (mm)							Grade
			DC	RE	FHA	APMX	THSZMS	DCONMS	LF	TT5523
MXBE	**060L05-BG-04S05**	0.025-0.060	6	2.987(1)	38	5.5	S05	8.0	10	●
MXBD	**080L05-BG-04S05**	0.030-0.080	8	3.982(1)	30	5	S05	7.7	10	●
	100L07-BG-04S06	0.035-0.090	10	4.982(1)	30	7	S06	9.7	13	●
	120L09-BG-04S08	0.035-0.110	12	5.978(2)	30	9	S08	11.7	16.5	●
	160L12-BG-04S10	0.040-0.130	16	7.978(2)	30	12	S10	15.3	20.5	●
	200L15-BG-04S12	0.050-0.150	20	9.972(2)	30	15	S12	18.3	25.5	●
	250L22-BG-04S15	0.060-0.170	25	12.470(3)	30	22	S15	23.9	37	●

- Wrench should be ordered separately
- RE Tolerance: (1) ± 0.01, (2)± 0.012, (3)± 0.02
- FHA: Flute helix angle

●: Standard items

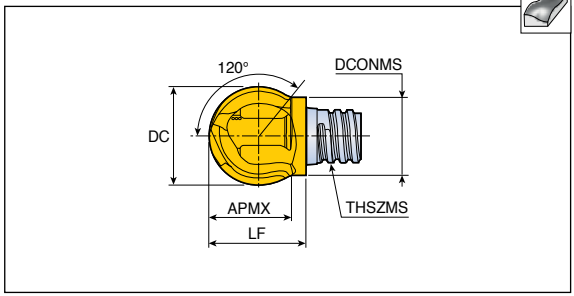
MXBB-SG-02

MAXIRUSH

2 flute, spherical designed edge







Designation		Feed (mm/tooth)	Dimension (mm)					Grade
			DC	APMX	THSZMS	DCONMS	LF	TT5523
* **MXBB**	**120L09-SG-02S06**	0.035-0.110	12	9.0	S06	9.5	11.6	●

- Wrench should be ordered separately
- *Use a different size wrench: MX KEY-S08

●: Standard items

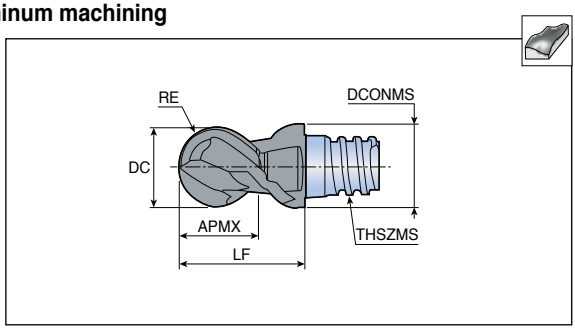
ADVANCE MACHINING
TaeguTec Industry 4.0

MXBE-BGA02

MAXIRUSH

2 flute, spherical designed edge for aluminum machining





2 | H·A 45° | Cutting Condition F138 | F139

Designation		Feed (mm/tooth)	Dimension (mm)						Grade
			DC	RE	APMX	THSZMS	DCONMS	LF	UF10
MXBE	080L05-BGA02S05	0.030-0.080	8	3.982(1)	5	S05	7.7	10	●
	100L07-BGA02S06	0.035-0.090	10	4.982(1)	7	S06	9.7	13	●
	120L09-BGA02S08	0.035-0.110	12	5.987(2)	9	S08	11.7	16.5	●
	160L12-BGA02S10	0.040-0.130	16	7.978(2)	12	S10	15.3	20.5	●
	200L15-BGA02S12	0.050-0.150	20	9.972(2)	15	S12	18.3	25.5	●

• Wrench should be ordered separately
• RE Tolerance: (1) ± 0.01, (2)± 0.012

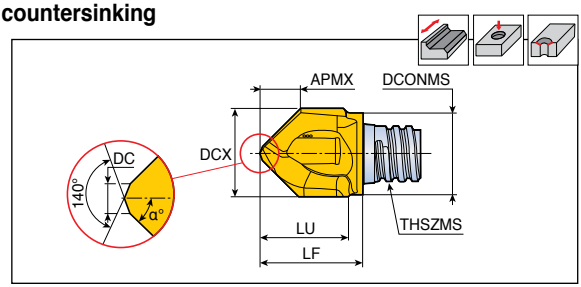
●: Standard items

MXCP-02

MAXIRUSH

2 flute, for spot drilling, chamfering and countersinking





2 | Cutting Condition F138 | F139

Designation		Feed (mm/tooth)	Dimension (mm)								Grade
			DCX	DC	APMX	THSZMS	DCONMS	LU	LF	α°	TT5523
MXCP	100L09A30-02S06	0.035-0.090	10	1.5	7.5	S06	9.5	8.5	11.75	30	●
	120L12A30-02S08	0.035-0.110	12	1.5	9.2	S08	11.5	11	15.4	30	●
	160L15A30-02S10	0.040-0.130	16	2.5	12	S10	15.2	16	20.2	30	●
	080L07A45-02S05	0.030-0.080	8	1.0	3.7	S05	7.6	7.5	9.75	45	●
	083L07A45-02S05	0.030-0.080	8.3	1.0	3.8	S05	7.6	7.5	10	45	●
	100L09A45-02S06	0.035-0.090	10	1.5	4.4	S06	9.5	9.5	11.75	45	●
	104L09A45-02S06	0.035-0.090	10.4	1.5	4.6	S06	9.5	9.5	11.75	45	●
	120L12A45-02S08	0.035-0.110	12	1.5	5.4	S08	11.5	11.5	15.4	45	●
	124L12A45-02S08	0.035-0.110	12.4	1.5	5.6	S08	11.5	11.5	15.4	45	●
	160L15A45-02S10	0.040-0.130	16	1.5	7.1	S10	15.2	15	18.8	45	●
	165L15A45-02S10	0.040-0.130	16.5	1.5	7.1	S10	15.2	15	18.8	45	●
	100L09A60-02S06	0.035-0.090	10	1.5	2.7	S06	9.5	9.5	12.7	60	●
	120L12A60-02S08	0.035-0.110	12	1.5	3.3	S08	11.5	11.5	15.2	60	●
	160L15A60-02S10	0.040-0.130	16	1.5	4.4	S10	15.2	16	19.9	60	●

• Wrench should be ordered separately

●: Standard items

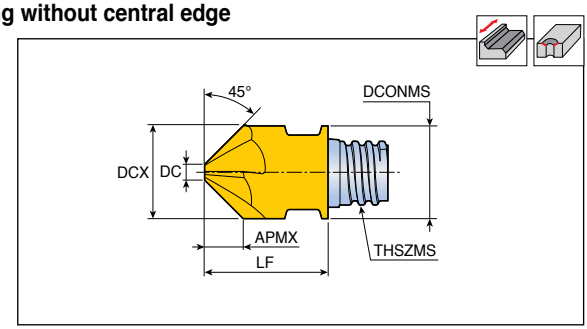
TaeguTec

MXCA-04/06

MAXIRUSH

4, 6 flute, chamfering and countersinking without central edge





4,6 | Cutting Condition F138 | F139

Designation		Feed (mm/tooth)	Dimension (mm)							Grade
			DCX	DC	NOF	APMX	THSZMS	DCONMS	LF	TT5523
MXCA	**100L04A45-04S06**	0.035-0.090	10	1.95	4	4.0	S06	10	13	●
	120L05A45-04S08	0.035-0.110	12	1.95	4	5.0	S08	12	16.5	●
	127L05A45-04S08	0.035-0.110	12.7	1.98	4	5.3	S08	12.7	16.5	●
	160L06A45-06S10	0.040-0.130	16	3.0	6	6.5	S10	16	20.3	●
	200L07A45-06S12	0.050-0.150	20	5.0	6	7.5	S12	20	25.5	●

• Wrench should be ordered separately
• NOF: Number of flutes

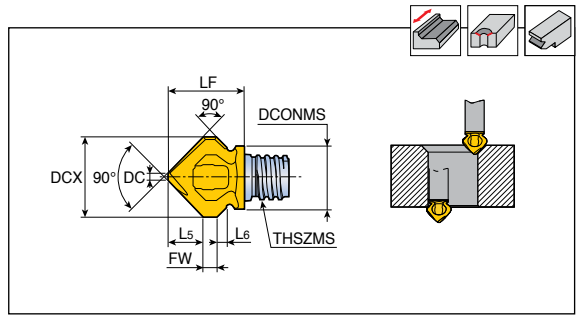
●: Standard items

MXCW-02

MAXIRUSH

2 flute, for double chamfering





2 | Cutting Condition F138 | F139

Designation		Feed (mm/tooth)	Dimension (mm)							Grade
			DCX	DC	L5	L6	FW	THSZMS	DCONMS	LF	TT5523
*MXCW	**118L05A45-02S06**	0.035-0.110	11.8	1.2	5	1.2	2	S06	9.3	11.2	●

• Wrench should be ordered separately
• *Use a different size wrench: MX KEY-S08

●: Standard items

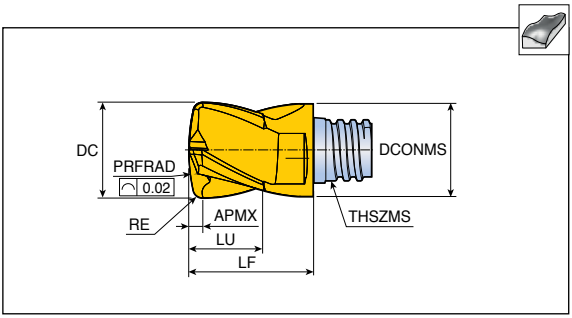
ADVANCE MACHINING TaeguTec Industry 4.0

MXCSL

MAXIRUSH

4 flute, lens shape for 5-axis profiling





Designation		Feed (mm/tooth)	Dimension (mm)							Grade
			DC	PRFRAD	RE	APMX	LU	THSZMS	DCONMS	LF	TT5523
MXCSL	**4080R016-S05**	0.02-0.08	8	16	0.5	0.9	5.5	S05	8	10	●
	4100R020-S06	0.03-0.09	10	20	1	1.4	7.5	S06	10	13	●
	4120R024-S08	0.03-0.10	12	24	1	1.6	9	S08	12	16.5	●
	4160R032-S10	0.04-0.12	16	32	1	1.8	12	S10	16	20.5	●

- Wrench should be ordered separately
- PRFRAD: Profile radius

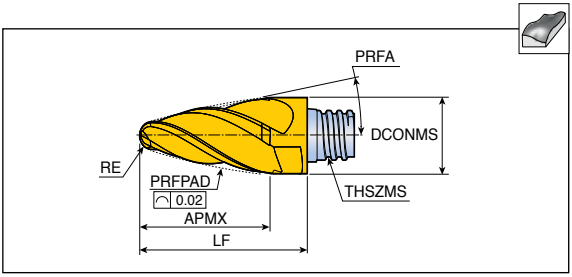
●: Standard items

MXCSO

MAXIRUSH

4 flute, oval shape for 5-axis profiling





Designation		Feed (mm/tooth)	Dimension (mm)							Grade
			PRFRAD	RE	APMX	PRFA	THSZMS	DCONMS	LF	TT5523
MXCSL	**4080R016-S05**	0.02-0.08	80	1.5	14.2	12	S05	8	18	●
	4100R020-S06	0.03-0.09	85	2	16.5	12	S06	10	22	●
	4120R024-S08	0.03-0.10	75	2	21.3	12	S08	12	27	●
	4160R032-S10	0.04-0.12	75	3	27	12	S10	16	33.4	●

- Wrench should be ordered separately
- PRFRAD: Profile radius

●: Standard items

TaeguTec

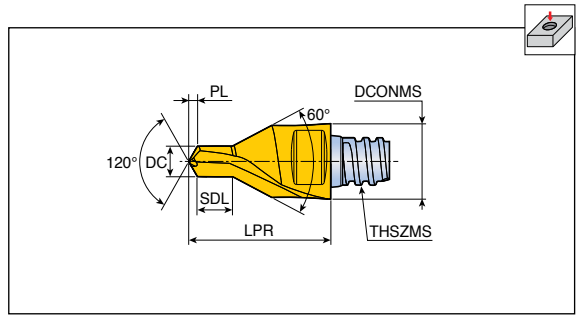
MXDP-02

MAXIRUSH

2 flute, for center drilling







Designation	Feed (mm/tooth)	Dimension (mm)						Grade
		DC	PL	SDL	THSZMS	DCONMS	LPR	TT5523
MXDP 328L04A30-02S05	0.04-0.08	3.28	0.85	3.75	S05	8	15	●
412L05A30-02S06	0.05-0.10	4.12	1.07	4.83	S06	10	19	●
513L07A30-02S08	0.05-0.12	5.13	1.32	5.88	S08	12	23	●
646L08A30-02S10	0.06-0.15	6.46	1.65	7.25	S10	16	28	●

• Wrench should be ordered separately
• SDL: Step diameter length

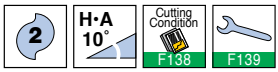
●: Standard items

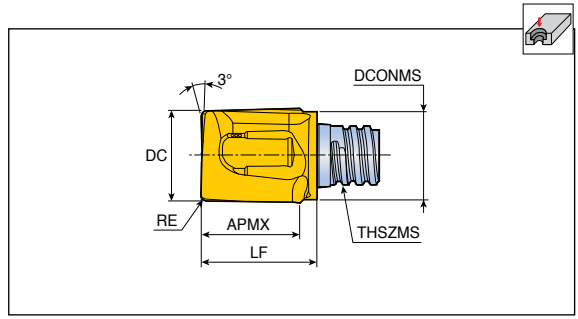
MXGC-02

MAXIRUSH

2 flute, for counter boring







Designation	Feed (mm/tooth)	Dimension (mm)						Grade
		DC	RE	APMX	THSZMS	DCONMS	LF	TT5523
MXGC 080L08R04-02S05	0.030-0.080	8	0.4	7.7	S05	7.6	10	●
080L08R10-02S05	0.030-0.080	8	1.0	7.7	S05	7.6	10	●
100L09R04-02S06	0.035-0.090	10	0.4	9.0	S06	9.5	12.4	●
100L09R20-02S06	0.035-0.090	10	2.0	9.0	S06	9.5	12.4	●
120L10R04-02S08	0.035-0.110	12	0.4	10	S08	11.5	14.2	●
120L10R10-02S08	0.035-0.110	12	1.0	10	S08	11.5	14.2	●
120L10R20-02S08	0.035-0.110	12	2.0	10	S08	11.5	14.2	●
160L15R04-02S10	0.040-0.130	16	0.4	14.9	S10	15.2	19	●

• Wrench should be ordered separately

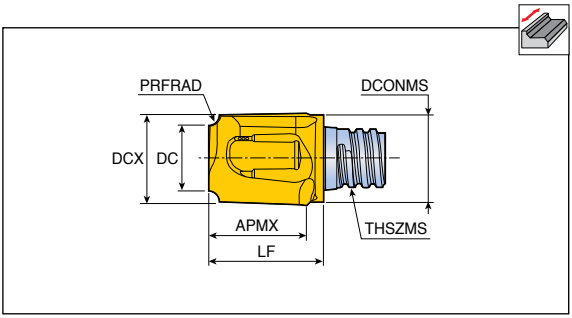
●: Standard items

MXCR-02

MAXIRUSH

2 flute, for concave radius milling







Designation		Feed (mm/tooth)	Dimension (mm)							Grade
			DCX	DC	PRFRAD	APMX	THSZMS	DCONMS	LF	TT5523
MXCR	**080L07R10-02S05**	0.030-0.080	8	5.8	1.0	7.5	S05	7.6	10.5	●
	100L09R16-02S06	0.035-0.090	10	6.8	1.6	9.5	S06	9.5	12.5	●
	100L09R25-02S06	0.035-0.090	10	5.1	2.5	9.5	S06	9.5	12.5	●
	127L12R30-02S08	0.035-0.110	12.7	6.5	3.0	12	S08	12.2	15.6	●
	127L12R40-02S08	0.035-0.110	12.7	4.7	4.0	12	S08	12.2	15.6	●
	160L15R50-02S10	0.040-0.130	16	6.2	5.0	15	S10	15.2	19.1	●
	200L07R60-02S12	0.050-0.150	20	8	6.0	7	S12	18.3	17.4	●

• Wrench should be ordered separately
• PRFRAD: Profile radius

●: Standard items

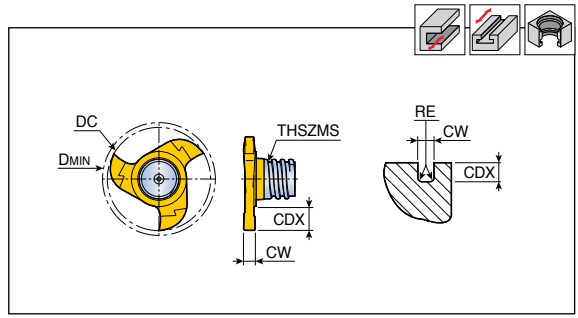
TaeguTec

TST-3

MAXIRUSH

3 flute, for slotting





3 | Cutting Condition F138 | F139

Designation		Feed (mm/tooth)	Dimension (mm)						Grade
			DC	CW	CDX	RE	THSZMS	DMIN	TT5543
TST	157W1.50R010-3S06	0.025-0.120	15.7	1.5	2.8	0.1	S06	16.0	●
	157W1.57R020-3S06	0.025-0.120	15.7	1.57	2.8	0.2	S06	16.0	●
	157W2.0R020-3S06	0.025-0.120	15.7	2.0	2.8	0.2	S06	16.0	●
	157W2.50R020-3S06	0.025-0.120	15.7	2.5	2.8	0.2	S06	16.0	●
	157W3.0R020-3S06	0.025-0.130	15.7	3.0	2.8	0.2	S06	16.0	●
	157W3.17R020-3S06	0.025-0.150	15.7	3.17	2.8	0.2	S06	16.0	●
	177W1.20R005-3S06	0.025-0.120	17.7	1.2(1)	3.8	0.05	S06	18.0	●
	177W1.40R005-3S06	0.025-0.120	17.7	1.4(1)	3.8	0.05	S06	18.0	●
	177W1.50R010-3S06	0.025-0.120	17.7	1.5	3.8	0.1	S06	18.0	●
	177W1.57R020-3S06	0.025-0.120	17.7	1.57	3.8	0.2	S06	18.0	●
	177W1.70R005-3S06	0.025-0.120	17.7	1.7(1)	3.8	0.05	S06	18.0	●
	177W2.0R020-3S06	0.025-0.120	17.7	2.0	3.8	0.2	S06	18.0	●
	177W2.20R110-3S06	0.025-0.120	17.7	2.2	3.8	1.1	S06	18.0	●
	177W2.50R020-3S06	0.025-0.120	17.7	2.5	3.8	0.2	S06	18.0	●
	177W3.0R020-3S06	0.025-0.130	17.7	3.0	3.8	0.2	S06	18.0	●
	177W3.17R020-3S06	0.025-0.150	17.7	3.17	3.8	0.2	S06	18.0	●

• Wrench should be ordered separately

• (1) CW for circle clips according to DIN 471/472

●: Standard items

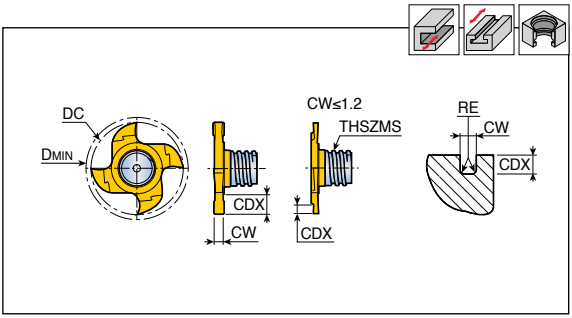
ADVANCE MACHINING
TaeguTec Industry 4.0

TST-4/6

MAXIRUSH

4, 6 flute, for slotting





4,6 | Cutting Condition F138 | F139

Designation		Feed (mm/tooth)	Dimension (mm)							Torx	Grade
			DC	NOF	CW	CDX	RE	THSZMS	DMIN		TT5543
TST	217W0.76R000-4S08	0.025-0.100	21.7	4	0.76(1)	1.5	-	S08	22.0	-	●
	217W0.96R000-4S08	0.025-0.100	21.7	4	0.96(1)	1.9	-	S08	22.0	-	●
	217W1.0R005-4S08	0.025-0.100	21.7	4	1.0	2	0.05	S08	22.0	-	●
	217W1.20R005-4S08	0.025-0.120	21.7	4	1.2(1)	4.5	0.05	S08	22.0	-	●
	217W1.40R005-4S08	0.025-0.120	21.7	4	1.4(1)	4.5	0.05	S08	22.0	-	●
	217W1.57R000-4S08	0.025-0.120	21.7	4	1.57	4.5	-	S08	22.0	-	●
	217W1.70R010-4S08	0.025-0.120	21.7	4	1.7(1)	4.5	0.1	S08	22.0	-	●
	217W1.95R020-4S08	0.025-0.120	21.7	4	1.95(1)	4.5	0.2	S08	22.0	-	●
	217W2.0R020-4S08	0.025-0.120	21.7	4	2.0	4.5	0.2	S08	22.0	-	●
	217W2.25R020-4S08	0.025-0.120	21.7	4	2.25(1)	4.5	0.2	S08	22.0	-	●
	217W2.39R020-4S08	0.025-0.120	21.7	4	2.39	4.5	0.2	S08	22.0	-	●
	217W2.50R020-4S08	0.025-0.120	21.7	4	2.5	4.5	0.2	S08	22.0	-	●
	217W2.75R020-4S08	0.025-0.130	21.7	4	2.75(1)	4.5	0.2	S08	22.0	-	●
	217W3.0R020-4S08	0.025-0.130	21.7	4	3.0	4.5	0.2	S08	22.0	-	●
	217W3.17R020-4S08	0.025-0.150	21.7	4	3.17	4.5	0.2	S08	22.0	-	●
	217W3.25R020-4S08	0.025-0.150	21.7	4	3.25(1)	4.5	0.2	S08	22.0	-	●
	217W4.0R020-4S08	0.025-0.150	21.7	4	4.0	4.5	0.2	S08	22.0	-	●
	217W4.25R020-4S08	0.025-0.150	21.7	4	4.25(1)	4.5	0.2	S08	22.0	-	●
	217W4.75R020-4S08	0.025-0.150	21.7	4	4.75	4.5	0.2	S08	22.0	-	●
	217W5.25R020-4S08	0.025-0.170	21.7	4	5.25(1)	4.5	0.2	S08	22.0	-	●
	277W2.50R020-6S10	0.025-0.120	27.7	6	2.5	6	0.2	S10	28.0	T40	●
	277W5.25R020-6S10	0.025-0.170	27.7	6	5.25	6	0.2	S10	28.0	T40	●
	277W10R020-6S10	0.025-0.170	27.7	6	10.0	6	0.2	S10	28.0	T40	●

- Wrench should be ordered separately
- NOF: Number of flutes
- (1) CW for circle clips according to DIN 471/472

●: Standard items

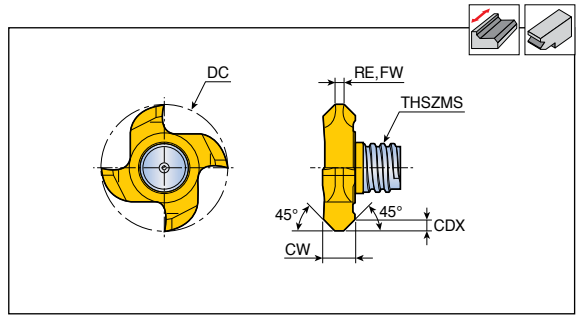
TaeguTec

TST-A45

MAXIRUSH

3, 4 flute, for chamfering





3,4 | Cutting Condition F138 | F139

Designation	Feed (mm/tooth)	Dimension (mm)							Grade
		DC	NOF	CW	CDX	RE	FW	THSZMS	TT5543
TST 177L01.40A45-3S06	0.025-0.150	17.7	3	3.4	1.4	0.1	-	S06	●
217L01.70A45-4S08	0.025-0.170	21.7	4	5.5	1.7	-	1.5	S08	●

- Wrench should be ordered separately
- NOF: Number of flutes
- FW: Flat width

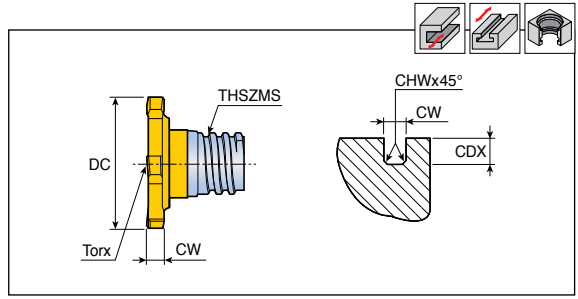
●: Standard items

TTB-C15

MAXIRUSH

6 flute, for chamfered slotting





6 | Cutting Condition F138 | F139

Designation	Feed (mm/tooth)	Dimension (mm)					Torx	Grade
		DC	CW	CDX	CHW	THSZMS		TT5543
TTB 135W2.0C15-06S05	0.025-0.120	13.5	2	2.65	0.15	S05	T20	●

- Wrench should be ordered separately
- CHW: Corner chamfer width

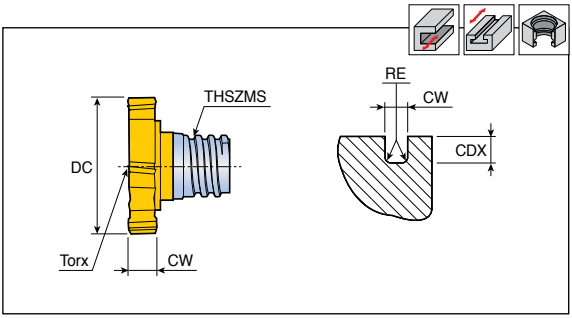
●: Standard items

TTB-06

MAXIRUSH

6 flute, for slotting





6 | Cutting Condition F138 | F139

Designation		Feed (mm/tooth)	Dimension (mm)					Torx	Grade
			DC	CW	CDX	RE	THSZMS		TT5543
TTB	135W3.0R04-06S05	0.025-0.130	13.5	3	2.65	0.4	S05	T20	●
	135W4.0R04-06S05	0.025-0.150	13.5	4	2.65	0.4	S05	T20	●
	160W2.0R04-06S06	0.025-0.120	16	2	2.9	0.4	S06	T20	●
	160W3.0R04-06S06	0.025-0.130	16	3	2.9	0.4	S06	T25	●
	160W4.0R04-06S06	0.025-0.150	16	4	2.9	0.4	S06	T25	●
	165W2.0R04-06S06	0.025-0.120	16.5	2	3.15	0.4	S06	T20	●
	165W3.0R04-06S06	0.025-0.130	16.5	3	3.15	0.4	S06	T25	●
	165W4.0R04-06S06	0.025-0.150	16.5	4	3.15	0.4	S06	T25	●
	195W4.0R04-06S08	0.025-0.150	19.5	4	3.45	0.4	S08	T30	●
	195W5.0R04-06S08	0.025-0.150	19.5	5	3.45	0.4	S08	T30	●
	195W6.0R04-06S08	0.025-0.170	19.5	6	3.45	0.4	S08	T30	●
	225W5.0R04-06S08	0.025-0.150	22.5	5	4.95	0.4	S08	T40	●
	225W6.0R04-06S08	0.025-0.170	22.5	6	4.95	0.4	S08	T40	●
	225W8.0R04-06S08	0.025-0.170	22.5	8	4.95	0.4	S08	T40	●
	250W6.0R04-06S08	0.025-0.170	25	6	5.9	0.4	S08	T50	●
	250W8.0R04-06S08	0.025-0.170	25	8	5.9	0.4	S08	T50	●
	250W5.0R04-06S10	0.025-0.150	25	5	4.3	0.4	S10	T50	●
	250W6.0R04-06S10	0.025-0.170	25	6	4.3	0.4	S10	T50	●
	250W8.0R04-06S10	0.025-0.170	25	8	4.3	0.4	S10	T50	●

• Wrench should be ordered separately

●: Standard items

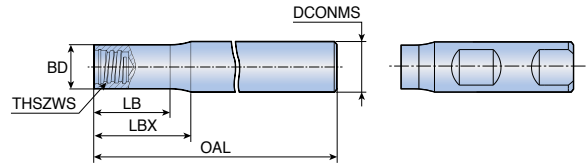
TaeguTec

MXSSD

MAXIRUSH

Straight shanks with neck





Cylindrical shank type Weldon shank type

F10-27

Designation	Dimension (mm)						Shank type	Shank material
	THSZWS	DCONMS	BD	OAL	LB	LBX		
MXSSD 08L060S05-S	S05	8	7.6	60	12.8	15	Cylindrical	Steel
08L070S05-C	S05	8	7.6	70	19	20	Cylindrical	Carbide
08L090S05-C	S05	8	7.6	90	39	40	Cylindrical	Carbide
08L110S05-C	S05	8	7.6	110	59	60	Cylindrical	Carbide
10L070S06-C	S06	10	9.6	70	18.5	20	Cylindrical	Carbide
10L075S06-S	S06	10	9.6	75	17.7	20	Cylindrical	Steel
10L090S06-C	S06	10	9.6	90	38.5	40	Cylindrical	Carbide
10L110S06-C	S06	10	9.6	110	58.5	60	Cylindrical	Carbide
10L150S06-C	S06	10	9.6	150	98.5	100	Cylindrical	Carbide
12L055W05-S	S05	12	7.6	55	-	3.8	Weldon	Steel
12L070S08-C	S08	12	11.5	70	17	20	Cylindrical	Carbide
12L090S08-C	S08	12	11.5	90	37	40	Cylindrical	Carbide
12L090S08-S	S08	12	11.5	90	13.6	16	Cylindrical	Steel
12L110S08-C	S08	12	11.5	110	57	60	Cylindrical	Carbide
12L130S08-C	S08	12	11.5	130	77	80	Cylindrical	Carbide
16L065W06-S	S06	16	9.6	65	-	6	Weldon	Steel
16L065W08-S	S08	16	11.5	65	-	4	Weldon	Steel
16L090S10-C	S10	16	15.2	90	38	40	Cylindrical	Carbide
16L100S10-S	S10	16	15.2	100	18	20	Cylindrical	Steel
16L110S10-C	S10	16	15.2	110	58	60	Cylindrical	Carbide
16L130S10-C	S10	16	15.2	130	78	80	Cylindrical	Carbide
16L150S10-C	S10	16	15.2	150	98	100	Cylindrical	Carbide
20L070W10-S	S10	20	15.2	70	-	4	Weldon	Steel
20L090S12-C	S12	20	18.3	90	37	40	Cylindrical	Carbide
20L120S12-S	S12	20	18.3	120	20.5	25	Cylindrical	Steel
20L130S12-C	S12	20	18.3	130	77	80	Cylindrical	Carbide
20L200S12-C	S12	20	18.3	200	117	120	Cylindrical	Carbide
25L075W12-S	S12	25	18.3	75	-	6	Weldon	Steel
25L120S15-C	S15	25	23.9	120	58	60	Cylindrical	Carbide
25L135S15-S	S15	25	23.9	135	33	35	Cylindrical	Steel
25L170S15-C	S15	25	23.9	170	98	100	Cylindrical	Carbide
25L250S15-C	S15	25	23.9	250	148	150	Cylindrical	Carbide

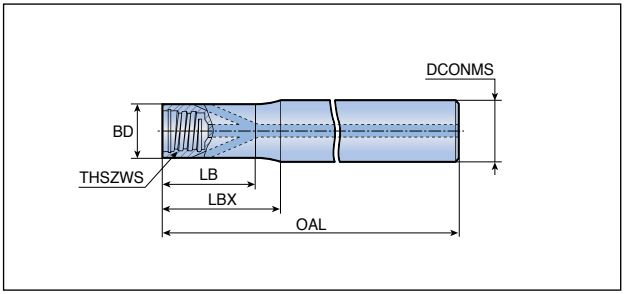
• THSZWS: Connection thread size

MXSSD-W-A

MAXIRUSH

Straight shanks with neck & internal coolant hole





F10-27

Designation		Dimension (mm)						Shank material
		THSZWS	DCONMS	BD	OAL	LB	LBX	
MXSSD	**10L070S06-W-A**	S06	10	9.6	70	19	20	Tungsten
	10L090S06-W-A	S06	10	9.6	90	39	40	Tungsten
	10L110S06-W-A	S06	10	9.6	110	59	60	Tungsten
	12L070S08-W-A	S08	12	11.5	70	19	20	Tungsten
	12L090S08-W-A	S08	12	11.5	90	39	40	Tungsten
	12L110S08-W-A	S08	12	11.5	110	59	60	Tungsten
	12L130S08-W-A	S08	12	11.5	130	79	80	Tungsten
	16L070S10-W-A	S10	16	15.2	70	18.5	20	Tungsten
	16L090S10-W-A	S10	16	15.2	90	36.5	40	Tungsten
	16L110S10-W-A	S10	16	15.2	110	58.5	60	Tungsten
	16L130S10-W-A	S10	16	15.2	130	78.5	80	Tungsten
	20L090S12-W-A	S12	20	18.3	90	37	40	Tungsten
	20L130S12-W-A	S12	20	18.3	130	77	80	Tungsten

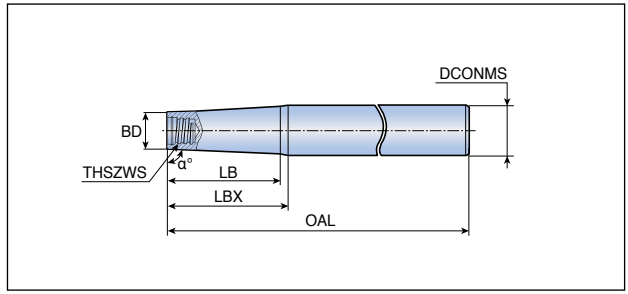
• THSZWS: Connection thread size

MXTSD

MAXIRUSH

Straight shanks with taper neck





F10-27

Designation	Dimension (mm)							Shank material
	α°	THSZWS	DCONMS	BD	OAL	LB	LBX	
MXTSD 12L080S05-S	85	S05	12	7.6	80	-	25	Steel
12L100S05-S	89	S05	12	7.6	100	31.0	35	Steel
12L110S05-C	89	S05	12	7.6	110	58.0	60	Carbide
12L130S05-C	89	S05	12	7.6	130	79.0	80	Carbide
16L125S06-S	85	S06	16	9.6	125	31.6	34	Steel
16L130S08-C	89	S08	16	11.5	130	78.8	80	Carbide
16L140S08-S	85	S08	16	11.5	140	19.3	22	Steel
16L150S05-C	89	S05	16	7.6	150	96.0	100	Carbide
16L150S06-C	89	S06	16	9.6	150	98.0	100	Carbide
16L150S08-C	89	S08	16	11.5	150	-	100	Carbide
16L160S06-S	89	S06	16	9.6	160	45.9	55	Steel
16L170S06-C	89	S06	16	9.6	170	119.0	120	Carbide
20L140S10-S	85	S10	20	15.2	140	-	27.5	Steel
20L170S08-C	89	S08	20	11.5	170	117.0	120	Carbide
20L170S08-S	89	S08	20	11.5	170	68.6	80	Steel
20L170S10-C	89	S10	20	15.2	170	-	120	Carbide
20L190S10-C	89	S10	20	15.2	190	-	140	Carbide
20L190S10-S	89	S10	20	15.2	190	73.0	80	Steel
20L210S10-C	89	S10	20	15.2	210	-	160	Carbide
25L160S12-S	85	S12	25	18.3	160	-	40	Steel
25L170S10-S	85	S10	25	15.2	170	-	56	Steel
25L180S12-C	89	S12	25	18.3	180	-	120	Carbide
25L210S12-S	89	S12	25	18.3	210	91.0	100	Steel
25L250S12-C	89	S12	25	18.3	250	-	140	Carbide
32L155S15-S	85	S15	32	23.9	155	40.0	45	Steel
32L190S12-S	85	S12	32	18.3	190	-	80	Steel
32L220S15-S	85	S15	32	23.9	220	-	100	Steel
32L250S15-C	89	S15	32	23.9	250	-	150	Carbide
32L300S15-C	89	S15	32	23.9	300	-	200	Carbide

• THSZWS: Connection thread size

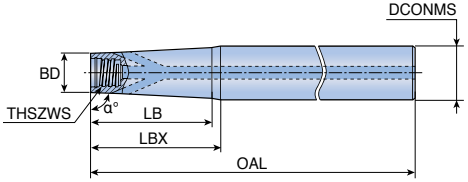
MXTSD-W-A

MAXIRUSH

Straight tungsten shanks with taper neck & internal coolant hole



F10-27



Designation		Dimension (mm)							Shank material
		α°	THSZWS	DCONMS	BD	OAL	LB	LBX	
MXTSD	**12L110S06-W-A**	89	S06	12	9.6	110	59	60	Tungsten
	16L170S06-W-A	89	S06	16	9.6	170	116	120	Tungsten

• THSZWS: Connection thread size

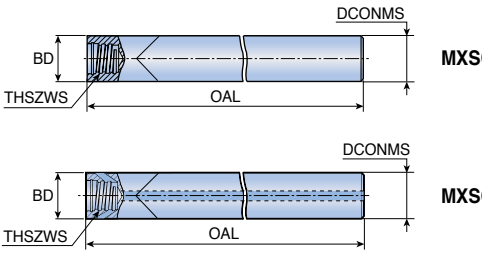
MXSC-C

MAXIRUSH

Straight carbide shanks for TST & TTB slotting head



F24-27



Designation		Dimension (mm)				Coolant hole	Shank material
		THSZWS	DCONMS	BD	OAL		
MXSC	**100L100S06-C**	S06	10	10	100	X	Carbide
	120L100S08-C-A	S08	12	12	100	●	Carbide

• THSZWS: Connection thread size

Note:

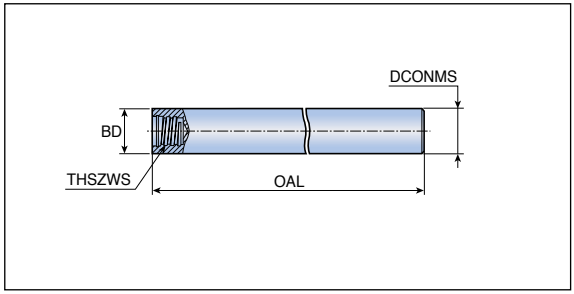
• For MXSC type shank, it is recommended to use the TST & TTB slotting head only. If other heads are used on the MXSC shank, the depth of cut must be smaller than the max. ap in each head. The MXSC-C type shank does not have external clearance, so the shank may interfere with the work piece.

MXSTD

MAXIRUSH

Straight steel shanks for TST & TTB slotting head





F24-27

Designation		Dimension (mm)				Shank material
		THSZWS	DCONMS	BD	OAL	
MXSTD	**08L050S05-S**	S05	8	8	50	Steel
	08L070S05-S	S05	8	8	70	Steel
	10L050S06-S	S06	10	10	50	Steel
	10L080S06-S	S06	10	10	80	Steel
	12L090S08-S	S08	12	12	90	Steel
	16L100S10-S	S10	16	16	100	Steel

• THSZWS: Connection thread size

Note:

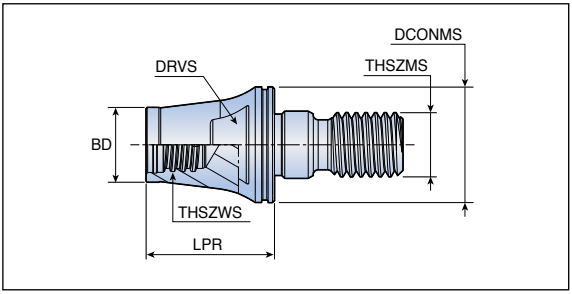
• For MXSTD type shank, it is recommended to use the TST & TTB slotting type head only. If other heads are used on the MXSTD shank, the depth of cut must be smaller than the max. ap in each head. The MXSTD type shank does not have external clearance, so the shank may interfere with the work piece.

MXAD-M

MAXIRUSH

Adapters for T-FLEXTEC





F10-27

Designation		Dimension (mm)						Shank material
		THSZWS	THSZMS	DCONMS	BD	LPR	DRVS	
MXAD	**130L016S08-S-M8**	S08	M8	13	11.7	16	11	Steel
	130L025S08-S-M8	S08	M8	13	11.7	25	11	Steel
	180L020S08-S-M10	S08	M10	18	11.7	20	13	Steel
	180L025S08-S-M10	S08	M10	18	11.7	25	11	Steel
	210L020S08-S-M12	S08	M12	21	11.7	20	12.75	Steel
	210L025S08-S-M12	S08	M12	21	11.7	25	12.75	Steel

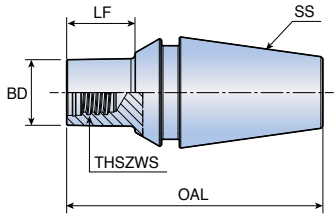
- THSZWS: Connection thread size
- DRVS: Clamping wrench size

MXER

MAXI-RUSH

ER collet chucks conversion adaptor with MAXI-RUSH





F10-27

Designation		Dimension (mm)					Shank material
		SS	THSZWS	BD	LF	OAL	
MXER	**11CL006S05-S**	ER11	S05	7.92	6	24.0	Steel
	11CL020S05-S	ER11	S05	7.92	20	38.0	Steel
	16CL012S05-S	ER16	S05	7.92	12	39.5	Steel
	16CL020S05-S	ER16	S05	7.92	20	47.5	Steel
	16CL010S06-S	ER16	S06	9.92	10	37.5	Steel
	16CL020S06-S	ER16	S06	9.92	20	47.5	Steel
	16CL006S08-S	ER16	S08	11.6	6	33.5	Steel
	16CL020S08-S	ER16	S08	11.6	20	47.5	Steel
	25CL004S08-S	ER25	S08	11.6	4	38.0	Steel
	25CL010S08-S	ER25	S08	11.6	10	44.5	Steel

• THSZWS: Connection thread size

Solid End Mill Line



Tool Selection Guide

Solid end mill

Series	HARDMILL					
	HSB 2				HSF 2	
	HSB 2	HSB 2...S6	HSB 2...S/M	HSB 4...M	HSF 2	HSF 2...M
						
Type	Ball	Ball	Ball	Ball	Flat	Flat
Flute	2	2	2	4	2	2
Length	Long neck	Long neck	Short/Medium	Medium	Long neck	Medium
Grades	TT5505	TT5505	TT5505	TT5505	TT5505	TT5505
Application	* H.S.M	H.S.M	H.S.M	H.S.M	H.S.M	H.S.M
Material	P M K N S H ○ ○ ●	P M K N S H ○ ○ ●	P M K N S H ○ ○ ●	P M K N S H ○ ○ ●	P M K N S H ○ ○ ●	P M K N S H ○ ○ ●
Range	Ø0.3 - Ø12.0	Ø0.6 - Ø2.0	Ø0.3 - Ø12.0	Ø4.0 - Ø12.0	Ø0.3 - Ø12.0	Ø0.3 - Ø12.0
Pages	F46 - F49	F50	F51 - F52	F53	F54 - F57	F58 - F59

Series	HARDMILL					
	HSF 4		HSF 6		HSR 2	
	HSF 4	HSF 4...M	HSF 6...M	HSF 6...XLT	HSR 2	HSR 2...M
						
Type	Flat	Flat	Flat	Flat	Radius	Radius
Flute	4	4	6	6	2	2
Length	Long neck	Medium	Medium	Extra long	Long neck	Medium
Grades	TT5505	TT5505	TT5505	TT5505	TT5505	TT5505
Application	H.S.M	H.S.M	Finishing	Finishing	H.S.M	H.S.M
Material	P M K N S H ○ ○ ●	P M K N S H ○ ○ ●	P M K N S H ○ ○ ●	P M K N S H ○ ○ ●	P M K N S H ○ ○ ●	P M K N S H ○ ○ ●
Range	Ø1.0 - Ø12.0	Ø1.0 - Ø12.0	Ø3.0 - Ø12.0	Ø5.0 - Ø12.0	Ø0.3 - Ø12.0	Ø0.3 - Ø12.0
Pages	F60 - F61	F62	F63	F63	F64 - F70	F71- F73

• *H.S.M : High Speed Machining

● Recommended, ○ Suitable

Tool Selection Guide

Solid end mill

HARDMILL					APEXMILL	
HSR 4		HSR 6			SBE 2	
HSR 4	**HSR 4...M**	**HSR 6**	**HSR 6...M**	**HSB 2CBN**	**SBE 2...S**	**SBE 2/SBE 2...T**
						
Radius	Radius	Radius	Radius	CBN Ball	Ball	Ball
4	4	6	6	2	2	2
Long neck	Medium	Long neck	Medium	Long neck	Short	Medium
TT5505	TT5505	TT5505	TT5505	TB7015	TT5515	UF10N/TT5515
* H.S.M	H.S.M	Finishing	Finishing	Finishing	General	General
P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H
○ ○ ●	○ ○ ●	○ ○ ●	○ ○ ●	●	● ○ ● ○	● ○ ● ● ○
Ø1.0 - Ø12.0	Ø1.0 - Ø12.0	Ø6.0 - Ø12.0	Ø6.0 - Ø12.0	Ø0.4 - Ø4.0	Ø2.0 - Ø20.0	Ø1.0 - Ø20.0
F74 - F77	F78 - F79	F80	F80	F81	F82	F83 - F84

APEXMILL						
SBE 2		SBE 4				
SBE 2...L	**SBE 2...LT**	**SBE 4/SBE 4...T**	**BES 2...T**	**BES 4...T**	**TSE 2...M**	**TSE 4...M**
						
Ball	Ball	Ball	Ball (Spherical)	Ball (Spherical)	Flat	Flat
2	2	4	2	4	2	4
Long	Long	Medium	Medium	Medium	Medium	Medium
UF10N	TT5515	UF10N/TT5515	TT5515	TT5515	TT5515,TT5525,UF10	TT5515,TT5525,UF10
General	General	General	General	General	General	General
P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H
● ○ ● ● ○	● ○ ● ● ○	● ○ ● ● ○	● ○ ○ ○	● ○ ○ ○	● ○ ● ● ○	● ○ ● ● ○
Ø1.0 -Ø 20.0	Ø2.0 -Ø 16.0	Ø1.0 -Ø 20.0	Ø3.0 - Ø16.0	Ø3.0 - Ø16.0	Ø1.0 - Ø25.0	Ø1.0 - Ø25.0
F85	F86	F87 - F88	F89	F89	F90 - F91	F92 - F93

• *H.S.M : High Speed Machining

● Recommended, ○ Suitable

TaeguTec

Tool Selection Guide

Solid end mill

Series	APEXMILL					
	HES 2		HES 4		HES 2-R	
	HES 2...LT	HES 2...XLT	HES 4...LT	HES 4...XLT	HES 2...T-R	HES 2...LT-R
						
Type	Flat	Flat	Flat	Flat	Radius	Radius
Flute	2	2	4	4	2	2
Length	Long	Extra long	Long	Extra long	Medium	Long
Grades	TT5525	TT5515, TT5525	TT5525	TT5515, TT5525	TT5515, TT5525	TT5515, TT5525
Application	General	General	General	General	General	General
Material	P M K N S H ● ○ ● ○	P M K N S H ● ○ ● ○	P M K N S H ● ○ ● ○	P M K N S H ● ○ ● ○	P M K N S H ● ○ ● ○	P M K N S H ● ○ ● ○
Range	Ø3.0 - Ø20.0	Ø3.0 - Ø20.0	Ø3.0 - Ø20.0	Ø3.0 - Ø20.0	Ø3.0 - Ø20.0	Ø3.0 - Ø12.0
Pages	F94	F95	F96	F97	F98	F99

Series	APEXMILL					
	HES 4-R					
	HES 4...T-R	HES 4...LT-R	HFM 2	HFM 4	CFM 4...M	REL ...L
						
Type	Radius	Radius	Flat	Flat	Chamfer	Chamfer
Flute	4	4	2	4	4	3-4
Length	Medium	Long	Medium	Medium	Medium	Long
Grades	TT5515, TT5525	TT5515, TT5525	TT5515	TT5515	TT5525	TT5515
Application	General	General	* H.F.M	* H.F.M	General	Roughing
Material	P M K N S H ● ○ ● ○	P M K N S H ● ○ ● ○	P M K N S H ● ● ○	P M K N S H ● ● ○	P M K N S H ● ● ○ ●	P M K N S H ● ○ ○ ○ ●
Range	Ø3.0 - Ø20.0	Ø3.0 - Ø12.0	Ø4.0 - Ø12.0	Ø6.0 - Ø12.0	Ø6.0 - Ø25.0	Ø6.0 - Ø20.0
Pages	F100	F101	F102	F102	F103	F103

• *H.F.M : High Feed Machining

● Recommended, ○ Suitable

Tool Selection Guide

Solid end mill

APEXMILL

FSM 4...M	CEM 2...-C60	CEM 2	CEM 2...-C120	ECEM 2	ECEM 4
					
Chamfer	Chamfer 60°	Chamfer 45°	Chamfer 30°	Chamfer 45°	Chamfer 45°
4	2	2	2	2	4
Medium	Long	Long	Long	Medium	Medium
TT5525	UF10	UF10, TT5525	UF10	UF10	UF10
Roughing+Finishing	General	General	General	General	General
P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H
● ○	● ○ ○ ● ○	● ○ ○ ● ○	● ○ ○ ● ○	● ○ ○ ● ○	● ○ ○ ● ○
Ø6.0 - Ø25.0	Ø4.0 - Ø20.0	Ø4.0 - Ø20.0	Ø4.0 - Ø20.0	Ø2.0 - Ø16.0	Ø6.0 - Ø12.0
F104	F104	F105	F105	F106	F106

APEXMILL	STARMILL				
			SED 4		
HCEM 5	SBT 3...U	SBT 4...U	SED 4...U	SED 4...UL	SED 4...-R
					
Chamfer 45°	Ball	Ball	Flat	Flat	Radius
5	3	4	4	4	4
Medium	Medium	Medium	Medium	Long	Medium
TT5525	TT5515	TT5515	TT5515	TT5515	TT5515
General	Difficult-to-cut	Difficult-to-cut	Difficult-to-cut	Difficult-to-cut	Difficult-to-cut
P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H
● ○ ● ○	○ ● ● ○	○ ● ● ○	○ ● ● ○	○ ● ● ○	○ ● ● ○
Ø0.8 - Ø16.0	Ø4.0 - Ø12.0	Ø4.0 - Ø12.0	Ø3.0 - Ø20.0	Ø3.0 - Ø12.0	Ø2.0 - Ø16.0
F107	F108	F108	F109	F109	F110

● Recommended, ○ Suitable

TaeguTec
Member IMC Group

Tool Selection Guide

Solid end mill

Series	STARMILL					
		SED 7			REH	
	SED 4...-C	SED 7	SED 7...N	SER	REH ...S	REH ...M
						
Type	Chamfer	Radius	Radius	Splitter	Chamfer	Chamfer
Flute	4	7	7	3-5	4-6	3-6
Length	Medium	Medium	Medium	Medium	Short	Medium
Grades	TT5515	TT5515	TT5515	TT5525	TT5525	TT5525
Application	Difficult-to-cut	Difficult-to-cut	TT5515	Difficult-to-cut	Roughing	Roughing
Material	P M K N S H ○ ● ●	P M K N S H ● ●	P M K N S H ○ ● ●	P M K N S H ○ ● ●	P M K N S H ○ ○ ● ○	P M K N S H ○ ○ ● ○
Range	Ø4.0 - Ø12.0	Ø6.0 - Ø20.0	Ø6.0 - Ø20.0	Ø3.0 - Ø20.0	Ø6.0 - Ø20.0	Ø4.0 - Ø25.0
Pages	F111	F111	F112	F113	F114	F115

Series	STARMILL	ALUMILL				
	REH	AES 2		AES 3		
	REH ...L	AES 2	AES 2...XL	AES 3	AES 3...ML	AES 3...XL
						
Type	Chamfer	Flat	Flat	Flat	Flat	Flat
Flute	4-6	2	2	3	3	3
Length	Long	Medium	Extra long	Medium	Long	Extra long
Grades	TT5525	UF10	UF10	UF10	UF10	UF10
Application	Roughing	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Material	P M K N S H ○ ○ ● ○	P M K N S H ●	P M K N S H ●	P M K N S H ●	P M K N S H ●	P M K N S H ●
Range	Ø6.0 - Ø20.0	Ø1.0 - Ø20.0	Ø2.0 - Ø20.0	Ø2.0 - Ø25.0	Ø3.0 - Ø20.0	Ø6.0 - Ø20.0
Pages	F116	F117	F118	F119	F120	F121

● Recommended, ○ Suitable

Tool Selection Guide

Solid end mill

ALUMILL					
				AWE 3	
AES 2...-R	**AES 3...-R**	**REMA 3/3...C**	**REA 3...L**	**AWE 3**	**AWE 3...ML**
					
Radius	Radius	Radius	Chamfer	Wave Flat	Wave Flat
2	3	3	3	3	3
Medium	Medium	Long neck	Long	Medium	Long
UF10	UF10	UF10	UF10	UF10	UF10
Aluminum	Aluminum	Roughing	Roughing	Aluminum	Aluminum
P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H	P M K N S H
●	●	●	●	●	●
Ø6.0 - Ø16.0	Ø6.0 - Ø16.0	Ø6.0 - Ø20.0	Ø6.0 - Ø20.0	Ø6.0 - Ø20.0	Ø6.0 - Ø20.0
F122	F123	F124	F124	F125	F125

ALUMILL	CERAMICSPEED			DIAMILL	
					DEB 2
AWE 3...ML-R	**CRF 4**	**CRF 6**	**CRH 4**	**DMB 2**	**DEB 2...S**
					
Wave Radius	Radius	Radius	Radius	Ball	Ball
3	4	6	4	2	2
Long	Medium	Medium	Medium	Miniature	Short
UF10	TC3030	TC3030	TC3030	TTD620	TTD620
Aluminum	* H.S.M	* H.S.M	* H.F.M	Graphite	Graphite
P M K N S H	P M K N S H	P M K N S H	P M K N S H	Graphite	Graphite
●	●	●	●		
Ø6.0 - Ø12.0	Ø6.0 - Ø16.0	Ø6.0 - Ø16.0	Ø6.0 - Ø16.0	Ø0.6 - Ø2.0	Ø3.0 - Ø12.0
F126	F126	F127	F127	F128	F128

• *H.S.M : High Speed Machining • *H.F.M : High Feed Machining ● Recommended, ○ Suitable

TaeguTec Member IMC Group

Tool Selection Guide

Solid end mill

Series	DIA MILL				
	DEB 2		DER 3		
	DEB 2...L	DMR 2	DER 3...S	DER 3...L	RRFE
					
Type	Ball	Radius	Radius	Radius	Flat
Flute	2	2	3	3	6-12
Length	Long	Miniature	Short	Long	
Grades	TTD620	TTD620	TTD620	TTD620	TTD610
Application	Graphite	Graphite	Graphite	Graphite	Roughing
Material	Graphite	Graphite	Graphite	Graphite	Composite material
Range	Ø3.0 - Ø12.0	Ø0.6 - Ø2.0	Ø3.0 - Ø12.0	Ø4.0 - Ø12.0	Ø4.0 - Ø12.0
Pages	F129	F129	F130	F130	F131

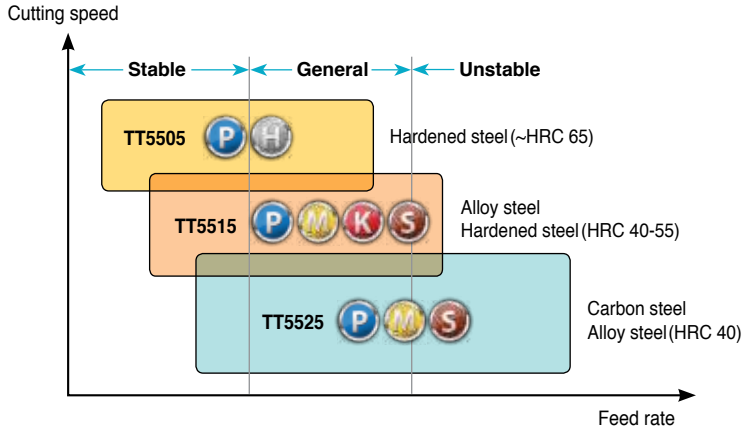
Series	DIA MILL				
	RCFE	RCME	RCDE	RCOM	RDCF
					
Type	Flat	Flat	Chamfer	Flat	Flat
Flute				4,6	4-8
Length					
Grades	TTD610	TTD610	TTD610	TTD610	TTD610
Application	Roughing	Medium	Drilling + Medium	Finishing	Finishing
Material	Composite material	Composite material	Composite material	Composite material	Composite material
Range	Ø4.0 - Ø12.0	Ø4.0 - Ø12.0	Ø4.0 - Ø12.0	Ø6.0 - Ø12.0	Ø4.0 - Ø12.0
Pages	F131	F132	F132	F133	F133

Grades

Solid end mill grades

Grades	ISO	Characteristics & applications
TT5505 PVD coated	P05 – P25 H05 – H25	• High wear and oxidation resistance that delivers exceptional productivity levels • Hardened steel, pre-hardened steel (Hardness < 65 HRC) • High speed machining
TT5515 PVD coated	P10 – P30 M15 – M30 K10 – K30 S10 – S30 H10 – H30	• An ultra wear resistant high performance grade covering all ISO ranges • Alloy steel, pre-hardeded steel, stainless steel, high-temp alloy (45 < HRC < 55) • Medium to high speed machining
TT5525 PVD coated	P20 – P40 M20 – M40 S20 – S40	• Optimally balanced with wear resistant and anti-chipping properties • General machining of carbon steel, alloy steel, stainless steel, high-temp alloy (< 40 HRC) • Low to medium speed machining
TTD620 Diamond coated	**Graphite**	• High hardness and excellent wear resistance • Machining of graphite
TTD610 Diamond coated	**Composite material**	• Advanced nano diamond coating provides longer tool life and stability of machining • Excellent abrasive wear resistance (Hardness: more Hv 8000) • Machining of composite material
UF10N **UF10** Uncoated	P25 – P35 M25 – M35 N25 – N35	• General machining of steel, aluminum alloys, non-ferrous materials • Submicron substrate
TC3030 Ceramic	S25 – S35	• SiAlON ceramic grade • High speed machining of nikel based super alloys

Selection guide for solid end mill grades

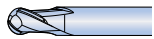


Designation System

HARDMILL

HSB	2	010	M	010	030
1	2	3	4	5/5*	6

1 End mill type

HSB	Ball nose	
HSF	Flat	
HSR	Corner radius	

2 No. of flute

2	2 Flutes	
4	4 Flutes	
6	6 Flutes	

3 Cutting diameter

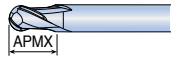
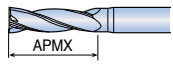
010	1.0 mm	
100	10.0 mm	

4 Cutting length type

-(none)	Long neck
S	Short
M	Medium
L	Long
XLT	Extra long

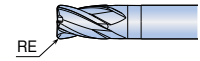
5 Length of cut

HSB / HSF type

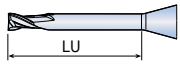
010	1.0 mm	
120	12.0 mm	

5* Corner radius

HSR type

005	R0.05 mm	
020	R0.2 mm	

6 Length of neck

030	3.0 mm	
200	20.0mm	
-(none)	No undercut	

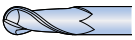
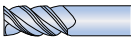
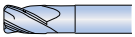
ADVANCE MACHINING
TaeguTec Industry 4.0

Designation System

APEXMILL STARMILL ALUMILL DIAMILL

SBE	2	010	S-	***
1	2	3	4	5

1 End mill type

SBE/SBT/DEB	Ball nose	
TSE/SED/AES	Flat	
DER	Corner radius	

2 No. of flute

2 2 Flutes 

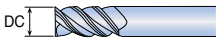
4 4 Flutes 

6 6 Flutes 

3 Cutting diameter

010 1.0 mm

100 10.0 mm



4 Overall length

S Short length 

M Medium length 

L Long length 

XL Extra long length 

5 Others

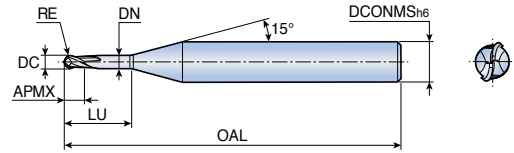
-□ Shank diameter

-R□□ Corner radius

HSB 2

2 flute long neck ball





RE		
	DC≤6	±0.005
	DC>6	±0.010

DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015

2 | H·A 30° | Cutting Condition F134

Designation		Dimension (mm)							Grade
		DC	RE	OAL	APMX	LU	DN	DCONMS	TT5505
HSB	2003 003 010	0.3	0.15	45	0.3	1.0	0.27	4.0	●
	2003 003 020	0.3	0.15	45	0.3	2.0	0.27	4.0	●
	2003 003 030	0.3	0.15	45	0.3	3.0	0.27	4.0	●
	2004 004 010	0.4	0.2	45	0.4	1.0	0.36	4.0	●
	2004 004 015	0.4	0.2	45	0.4	1.5	0.36	4.0	●
	2004 004 020	0.4	0.2	45	0.4	2.0	0.36	4.0	●
	2004 004 025	0.4	0.2	45	0.4	2.5	0.36	4.0	●
	2004 004 030	0.4	0.2	45	0.4	3.0	0.36	4.0	●
	2004 004 040	0.4	0.2	45	0.4	4.0	0.36	4.0	●
	2005 005 010	0.5	0.25	45	0.5	1.0	0.45	4.0	●
	2005 005 015	0.5	0.25	45	0.5	1.5	0.45	4.0	●
	2005 005 020	0.5	0.25	45	0.5	2.0	0.45	4.0	●
	2005 005 025	0.5	0.25	45	0.5	2.5	0.45	4.0	●
	2005 005 030	0.5	0.25	45	0.5	3.0	0.45	4.0	●
	2005 005 040	0.5	0.25	45	0.5	4.0	0.45	4.0	●
	2005 005 050	0.5	0.25	45	0.5	5.0	0.45	4.0	●
	2005 005 060	0.5	0.25	45	0.5	6.0	0.45	4.0	●
	2005 005 080	0.5	0.25	45	0.5	8.0	0.45	4.0	●
	2006 006 020	0.6	0.3	45	0.6	2.0	0.55	4.0	●
	2006 006 030	0.6	0.3	45	0.6	3.0	0.55	4.0	●
	2006 006 040	0.6	0.3	45	0.6	4.0	0.55	4.0	●
	2006 006 050	0.6	0.3	45	0.6	5.0	0.55	4.0	●
	2006 006 060	0.6	0.3	45	0.6	6.0	0.55	4.0	●
	2006 006 080	0.6	0.3	45	0.6	8.0	0.55	4.0	●
	2006 006 100	0.6	0.3	45	0.6	10.0	0.55	4.0	●
	2008 008 020	0.8	0.4	45	0.8	2.0	0.75	4.0	●
	2008 008 030	0.8	0.4	45	0.8	3.0	0.75	4.0	●
	2008 008 040	0.8	0.4	45	0.8	4.0	0.75	4.0	●
	2008 008 050	0.8	0.4	45	0.8	5.0	0.75	4.0	●
	2008 008 060	0.8	0.4	45	0.8	6.0	0.75	4.0	●
	2008 008 080	0.8	0.4	45	0.8	8.0	0.75	4.0	●
	2008 008 100	0.8	0.4	45	0.8	10.0	0.75	4.0	●
	2008 008 120	0.8	0.4	45	0.8	12.0	0.75	4.0	●

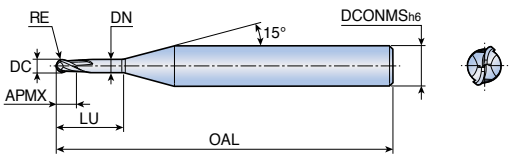
●: Standard items

HSB 2

RHINOSOLID HARDMILL

2 flute long neck ball





RE		
DC≤6	±0.005	
DC>6	±0.010	

DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015

2 | H·A 30° | Cutting Condition F134

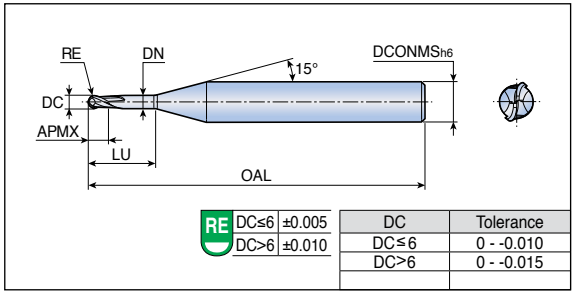
Designation	Dimension (mm)							Grade
	DC	RE	OAL	APMX	LU	DN	DCONMS	TT5505
HSB 2010 010 030	1.0	0.5	50	1.0	3	0.97	4.0	●
2010 010 040	1.0	0.5	50	1.0	4	0.97	4.0	●
2010 010 050	1.0	0.5	50	1.0	5	0.97	4.0	●
2010 010 060	1.0	0.5	50	1.0	6	0.97	4.0	●
2010 010 070	1.0	0.5	50	1.0	7	0.97	4.0	●
2010 010 080	1.0	0.5	50	1.0	8	0.95	4.0	●
2010 010 090	1.0	0.5	50	1.0	9	0.95	4.0	●
2010 010 100	1.0	0.5	50	1.0	10	0.95	4.0	●
2010 010 120	1.0	0.5	50	1.0	12	0.93	4.0	●
2010 010 140	1.0	0.5	50	1.0	14	0.93	4.0	●
2010 010 160	1.0	0.5	50	1.0	16	0.93	4.0	●
2010 010 180	1.0	0.5	55	1.0	18	0.93	4.0	●
2010 010 200	1.0	0.5	55	1.0	20	0.93	4.0	●
2012 012 040	1.2	0.6	50	1.2	4	1.15	4.0	●
2012 012 060	1.2	0.6	50	1.2	6	1.15	4.0	●
2012 012 080	1.2	0.6	50	1.2	8	1.15	4.0	●
2012 012 100	1.2	0.6	50	1.2	10	1.15	4.0	●
2012 012 120	1.2	0.6	50	1.2	12	1.13	4.0	●
2015 015 040	1.5	0.75	50	1.5	4	1.45	4.0	●
2015 015 060	1.5	0.75	50	1.5	6	1.45	4.0	●
2015 015 080	1.5	0.75	50	1.5	8	1.45	4.0	●
2015 015 100	1.5	0.75	50	1.5	10	1.45	4.0	●
2015 015 120	1.5	0.75	50	1.5	12	1.43	4.0	●
2015 015 140	1.5	0.75	50	1.5	14	1.43	4.0	●
2015 015 160	1.5	0.75	50	1.5	16	1.41	4.0	●
2015 015 180	1.5	0.75	55	1.5	18	1.41	4.0	●
2015 015 200	1.5	0.75	55	1.5	20	1.39	4.0	●
2020 030 060	2.0	1.0	50	3.0	6	1.95	4.0	●
2020 030 080	2.0	1.0	50	3.0	8	1.95	4.0	●
2020 030 100	2.0	1.0	50	3.0	10	1.95	4.0	●
2020 030 120	2.0	1.0	50	3.0	12	1.93	4.0	●
2020 030 140	2.0	1.0	50	3.0	14	1.93	4.0	●
2020 030 160	2.0	1.0	50	3.0	16	1.93	4.0	●
2020 030 180	2.0	1.0	55	3.0	18	1.93	4.0	●
2020 030 200	2.0	1.0	55	3.0	20	1.93	4.0	●

●: Standard items

HSB 2

2 flute long neck ball





RE		
	DC≤6	±0.005
	DC>6	±0.010

DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015



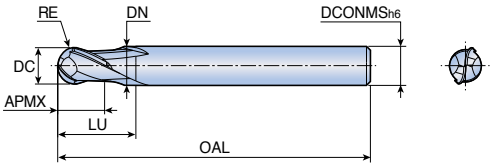
Designation	Dimension (mm)							Grade
	DC	RE	OAL	APMX	LU	DN	DCONMS	TT5505
HSB 2020 030 250	2.0	1.0	60	3.0	25	1.93	4.0	●
2020 030 300	2.0	1.0	70	3.0	30	1.93	4.0	●
2025 035 080	2.5	1.25	55	3.5	8	2.45	4.0	●
2025 035 100	2.5	1.25	55	3.5	10	2.45	4.0	●
2025 035 120	2.5	1.25	55	3.5	12	2.43	4.0	●
2025 035 160	2.5	1.25	55	3.5	16	2.41	4.0	●
2025 035 200	2.5	1.25	55	3.5	20	2.41	4.0	●
2030 040 080	3.0	1.5	55	4.0	8	2.85	6.0	●
2030 040 100	3.0	1.5	55	4.0	10	2.85	6.0	●
2030 040 120	3.0	1.5	55	4.0	12	2.85	6.0	●
2030 040 140	3.0	1.5	55	4.0	14	2.85	6.0	●
2030 040 160	3.0	1.5	55	4.0	16	2.85	6.0	●
2030 040 180	3.0	1.5	60	4.0	18	2.85	6.0	●
2030 040 200	3.0	1.5	60	4.0	20	2.85	6.0	●
2030 040 250	3.0	1.5	60	4.0	25	2.85	6.0	●
2030 040 300	3.0	1.5	75	4.0	30	2.85	6.0	●
2030 040 350	3.0	1.5	75	4.0	35	2.85	6.0	●
2030 040 400	3.0	1.5	80	4.0	40	2.85	6.0	●
2040 050 100	4.0	2.0	55	5.0	10	3.9	6.0	●
2040 050 120	4.0	2.0	55	5.0	12	3.9	6.0	●
2040 050 160	4.0	2.0	55	5.0	16	3.9	6.0	●
2040 050 200	4.0	2.0	60	5.0	20	3.9	6.0	●
2040 050 250	4.0	2.0	60	5.0	25	3.9	6.0	●
2040 050 300	4.0	2.0	75	5.0	30	3.9	6.0	●
2040 050 350	4.0	2.0	75	5.0	35	3.9	6.0	●
2040 050 400	4.0	2.0	80	5.0	40	3.9	6.0	●
2050 060 120	5.0	2.5	70	6.0	12	4.9	6.0	●
2050 060 300	5.0	2.5	70	6.0	30	4.9	6.0	●

●: Standard items

HSB 2

2 flute long neck ball





RE		
DC≤6	±0.005	
DC>6	±0.010	

DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015

2 | H·A 30° | Cutting Condition F134

Designation		Dimension (mm)							Grade
		DC	RE	OAL	APMX	LU	DN	DCONMS	TT5505
HSB	2060 080 150	6.0	3	60	8	15	5.9	6.0	●
	2060 080 200	6.0	3	60	8	20	5.9	6.0	●
	2060 080 300	6.0	3	80	8	30	5.9	6.0	●
	2060 080 350	6.0	3	80	8	35	5.9	6.0	●
	2080 100 150	8.0	4	80	10	15	7.9	8.0	●
	2080 100 200	8.0	4	80	10	20	7.9	8.0	●
	2080 100 300	8.0	4	100	10	30	7.9	8.0	●
	2100 120 200	10.0	5	80	12	20	9.9	10.0	●
	2100 120 250	10.0	5	80	12	25	9.9	10.0	●
	2100 120 350	10.0	5	100	12	35	9.9	10.0	●
	2120 140 250	12.0	6	80	14	25	11.9	12.0	●
	2120 140 400	12.0	6	110	14	40	11.9	12.0	●

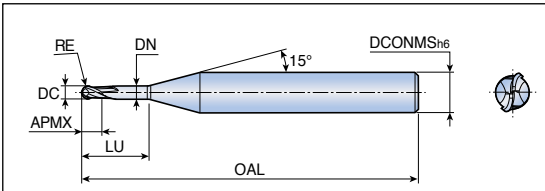
●: Standard items

HSB 2...S6

RHINOSOLID HARDMILL

2 flute long neck ball (Shank 6mm)





RE	
DC≤6	±0.005
DC>6	±0.010

DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015

2 | H·A 30° | Cutting Condition F134

Designation		Dimension (mm)							Grade
		DC	RE	OAL	APMX	LU	DN	DCONMS	TT5505
HSB	2006 006 020 S6	0.6	0.3	45	0.6	2	0.55	6.0	●
	2006 006 040 S6	0.6	0.3	45	0.6	4	0.55	6.0	●
	2006 006 060 S6	0.6	0.3	45	0.6	6	0.55	6.0	●
	2008 008 020 S6	0.8	0.4	45	0.8	2	0.75	6.0	●
	2008 008 040 S6	0.8	0.4	45	0.8	4	0.75	6.0	●
	2008 008 060 S6	0.8	0.4	45	0.8	6	0.75	6.0	●
	2008 008 080 S6	0.8	0.4	45	0.8	8	0.75	6.0	●
	2010 010 030 S6	1.0	0.5	50	1.0	3	0.95	6.0	●
	2010 010 040 S6	1.0	0.5	50	1.0	4	0.95	6.0	●
	2010 010 060 S6	1.0	0.5	50	1.0	6	0.95	6.0	●
	2010 010 080 S6	1.0	0.5	50	1.0	8	0.95	6.0	●
	2010 010 100 S6	1.0	0.5	50	1.0	10	0.95	6.0	●
	2015 015 040 S6	1.5	0.75	50	1.5	4	1.45	6.0	●
	2015 015 060 S6	1.5	0.75	50	1.5	6	1.45	6.0	●
	2015 015 080 S6	1.5	0.75	50	1.5	8	1.45	6.0	●
	2015 015 100 S6	1.5	0.75	50	1.5	10	1.45	6.0	●
	2015 015 120 S6	1.5	0.75	50	1.5	12	1.45	6.0	●
	2020 030 060 S6	2.0	1.0	50	3.0	6	1.95	6.0	●
	2020 030 080 S6	2.0	1.0	50	3.0	8	1.95	6.0	●
	2020 030 100 S6	2.0	1.0	50	3.0	10	1.95	6.0	●
	2020 030 120 S6	2.0	1.0	50	3.0	12	1.95	6.0	●
	2020 030 160 S6	2.0	1.0	50	3.0	16	1.95	6.0	●

●: Standard items

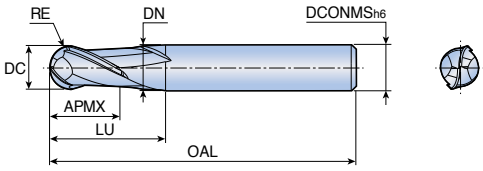
ADVANCE MACHINING TaeguTec Industry 4.0

HSB 2...S

RHINOSOLID HARDMILL

2 flute short ball





RE		
DC≤6	±0.005	
DC>6	±0.010	

DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015

2 | H·A 30° | Cutting Condition F134

Designation	Dimension (mm)							Grade
	DC	RE	OAL	APMX	LU	DN	DCONMS	TT5505
HSB 2010S 015 025	1.0	0.5	38	1.5	2.5	0.95	6.0	●
2015S 025 045	1.5	0.75	38	2.5	4.5	1.45	6.0	●
2020S 030 065	2.0	1.0	38	3.0	6.5	1.95	6.0	●
2030S 045 080	3.0	1.5	38	4.5	8.0	2.9	6.0	●
2040S 060 100	4.0	2.0	54	6.0	10.0	3.9	6.0	●
2050S 075 150	5.0	2.5	54	7.5	15.0	4.9	6.0	●
2060S 090 170	6.0	3.0	54	9.0	17.0	5.9	6.0	●
2080S 120 200	8.0	4.0	58	12.0	20.0	7.9	8.0	●
2100S 150 250	10.0	5.0	66	15.0	25.0	9.9	10.0	●
2120S 180 300	12.0	6.0	73	18.0	30.0	11.9	12.0	●

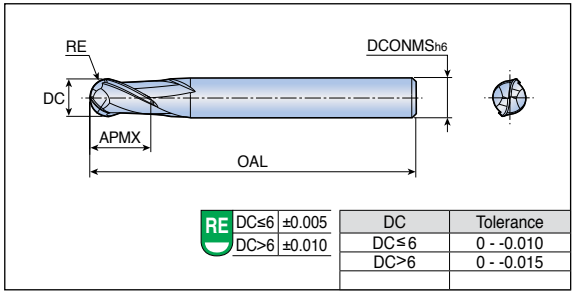
●: Standard items

TaeguTec

HSB 2...M

2 flute medium ball





RE	
DC≤6	±0.005
DC>6	±0.010

DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015

2 | H·A 30° | Cutting Condition F134

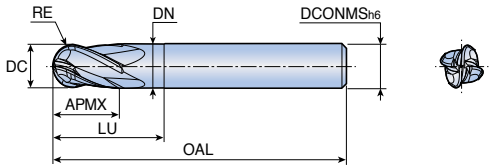
Designation	Dimension (mm)					Grade
	DC	RE	OAL	APMX	DCONMS	TT5505
HSB 2003M 006	0.3	0.15	45	0.6	4.0	●
2004M 008	0.4	0.2	45	0.8	4.0	●
2005M 010	0.5	0.25	45	1.0	4.0	●
2006M 012	0.6	0.3	45	1.2	4.0	●
2007M 014	0.7	0.35	45	1.4	4.0	●
2008M 016	0.8	0.4	45	1.6	4.0	●
2009M 018	0.9	0.45	45	1.8	4.0	●
2010M 025	1.0	0.5	50	2.5	6.0	●
2015M 040	1.5	0.75	50	4.0	6.0	●
2020M 050	2.0	1.0	50	5.0	6.0	●
2025M 070	2.5	1.25	60	7.0	6.0	●
2030M 080	3.0	1.5	60	8.0	6.0	●
2035M 080	3.5	1.75	70	8.0	6.0	●
2040M 080	4.0	2.0	70	8.0	6.0	●
2045M 100	4.5	2.25	80	10.0	6.0	●
2050M 100	5.0	2.5	80	10.0	6.0	●
2060M 120	6.0	3.0	80	12.0	6.0	●
2080M 140	8.0	4.0	90	14.0	8.0	●
2100M 180	10.0	5.0	100	18.0	10.0	●
2120M 220	12.0	6.0	110	22.0	12.0	●

●: Standard items

HSB 4...M

4 flute medium ball





RE		
DC≤6	±0.005	
DC>6	±0.010	

DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015

4 | H·A 30° | Cutting Condition F134

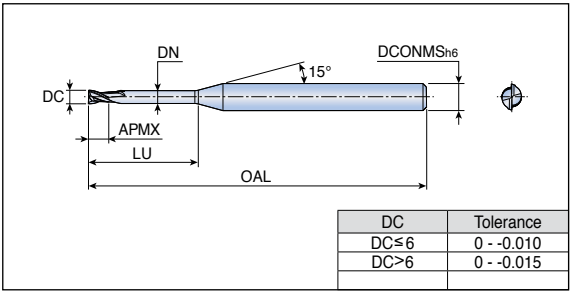
Designation		Dimension (mm)							Grade
		DC	RE	OAL	APMX	LU	DN	DCONMS	TT5505
HSB	4040M 060 100	4.0	2.0	70	6.0	10	3.9	6.0	●
	4050M 075 150	5.0	2.5	80	7.5	15	4.9	6.0	●
	4060M 090 170	6.0	3.0	80	9.0	17	5.9	6.0	●
	4080M 120 200	8.0	4.0	90	12.0	20	7.9	8.0	●
	4100M 150 250	10.0	5.0	100	15.0	25	9.9	10.0	●
	4120M 180 300	12.0	6.0	110	18.0	30	11.9	12.0	●

●: Standard items

HSF 2

2 flute long neck flat





DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015



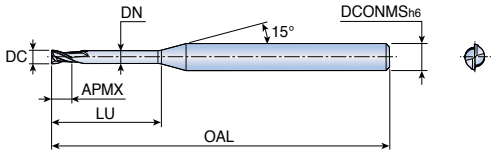
Designation	Feed (mm/tooth)	Dimension (mm)						Grade
		DC	OAL	APMX	LU	DN	DCONMS	TT5505
HSF 2003 004 010	0.006-0.010	0.3	45	0.4	1.0	0.27	4.0	●
2003 004 015	0.006-0.010	0.3	45	0.4	1.5	0.27	4.0	●
2003 004 020	0.006-0.010	0.3	45	0.4	2.0	0.27	4.0	●
2003 004 025	0.006-0.010	0.3	45	0.4	2.5	0.27	4.0	●
2003 004 030	0.006-0.010	0.3	45	0.4	3.0	0.27	4.0	●
2003 004 040	0.005-0.008	0.3	45	0.4	4.0	0.27	4.0	●
2003 004 050	0.005-0.008	0.3	45	0.4	5.0	0.27	4.0	●
2004 006 010	0.006-0.010	0.4	45	0.6	1.0	0.37	4.0	●
2004 006 015	0.006-0.010	0.4	45	0.6	1.5	0.37	4.0	●
2004 006 020	0.006-0.010	0.4	45	0.6	2.0	0.37	4.0	●
2004 006 025	0.006-0.010	0.4	45	0.6	2.5	0.37	4.0	●
2004 006 030	0.006-0.010	0.4	45	0.6	3.0	0.37	4.0	●
2004 006 040	0.006-0.010	0.4	45	0.6	4.0	0.37	4.0	●
2004 006 050	0.005-0.008	0.4	45	0.6	5.0	0.37	4.0	●
2004 006 060	0.005-0.008	0.4	45	0.6	6.0	0.37	4.0	●
2005 007 010	0.006-0.010	0.5	45	0.7	1.0	0.45	4.0	●
2005 007 015	0.006-0.010	0.5	45	0.7	1.5	0.45	4.0	●
2005 007 020	0.006-0.010	0.5	45	0.7	2.0	0.45	4.0	●
2005 007 025	0.006-0.009	0.5	45	0.7	2.5	0.45	4.0	●
2005 007 030	0.006-0.009	0.5	45	0.7	3.0	0.45	4.0	●
2005 007 040	0.006-0.008	0.5	45	0.7	4.0	0.45	4.0	●
2005 007 050	0.006-0.008	0.5	45	0.7	5.0	0.45	4.0	●
2005 007 060	0.005-0.007	0.5	45	0.7	6.0	0.45	4.0	●
2005 007 080	0.005-0.007	0.5	45	0.7	8.0	0.45	4.0	●
2006 009 020	0.008-0.013	0.6	45	0.9	2.0	0.55	4.0	●
2006 009 030	0.008-0.013	0.6	45	0.9	3.0	0.55	4.0	●
2006 009 040	0.008-0.013	0.6	45	0.9	4.0	0.55	4.0	●
2006 009 050	0.008-0.013	0.6	45	0.9	5.0	0.55	4.0	●
2006 009 060	0.008-0.013	0.6	45	0.9	6.0	0.55	4.0	●
2006 009 080	0.006-0.010	0.6	45	0.9	8.0	0.55	4.0	●
2006 009 100	0.006-0.010	0.6	45	0.9	10.0	0.55	4.0	●
2007 012 020	0.008-0.013	0.7	45	1.2	2.0	0.65	4.0	●
2007 012 040	0.008-0.013	0.7	45	1.2	4.0	0.65	4.0	●
2007 012 060	0.008-0.013	0.7	45	1.2	6.0	0.65	4.0	●
2007 012 080	0.008-0.013	0.7	45	1.2	8.0	0.65	4.0	●
2007 012 100	0.006-0.010	0.7	45	1.2	10.0	0.65	4.0	●

●: Standard items

HSF 2

2 flute long neck flat





DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015



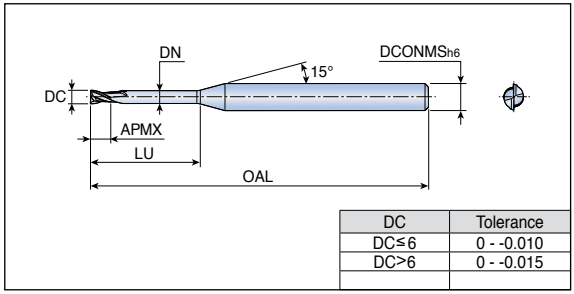
Designation	Feed (mm/tooth)	Dimension (mm)						Grade
		DC	OAL	APMX	LU	DN	DCONMS	TT5505
HSF 2007 012 120	0.006-0.010	0.7	45	1.2	12.0	0.65	4.0	●
2008 012 020	0.007-0.015	0.8	45	1.2	2.0	0.75	4.0	●
2008 012 030	0.007-0.015	0.8	45	1.2	3.0	0.75	4.0	●
2008 012 040	0.007-0.015	0.8	45	1.2	4.0	0.75	4.0	●
2008 012 050	0.007-0.015	0.8	45	1.2	5.0	0.75	4.0	●
2008 012 060	0.007-0.015	0.8	45	1.2	6.0	0.75	4.0	●
2008 012 080	0.007-0.013	0.8	45	1.2	8.0	0.73	4.0	●
2008 012 100	0.007-0.012	0.8	45	1.2	10.0	0.73	4.0	●
2008 012 120	0.007-0.012	0.8	45	1.2	12.0	0.73	4.0	●
2010 015 030	0.009-0.020	1.0	50	1.5	3.0	0.97	4.0	●
2010 015 040	0.009-0.020	1.0	50	1.5	4.0	0.97	4.0	●
2010 015 050	0.009-0.018	1.0	50	1.5	5.0	0.97	4.0	●
2010 015 060	0.009-0.018	1.0	50	1.5	6.0	0.97	4.0	●
2010 015 070	0.009-0.018	1.0	50	1.5	7.0	0.97	4.0	●
2010 015 080	0.009-0.018	1.0	50	1.5	8.0	0.95	4.0	●
2010 015 100	0.009-0.016	1.0	50	1.5	10.0	0.95	4.0	●
2010 015 120	0.008-0.014	1.0	50	1.5	12.0	0.93	4.0	●
2010 015 140	0.008-0.014	1.0	50	1.5	14.0	0.93	4.0	●
2010 015 160	0.008-0.014	1.0	50	1.5	16.0	0.91	4.0	●
2010 015 180	0.008-0.012	1.0	55	1.5	18.0	0.91	4.0	●
2010 015 200	0.008-0.012	1.0	55	1.5	20.0	0.85	4.0	●
2012 018 040	0.010-0.020	1.2	50	1.8	4.0	1.17	4.0	●
2012 018 060	0.010-0.020	1.2	50	1.8	6.0	1.17	4.0	●
2012 018 080	0.010-0.020	1.2	50	1.8	8.0	1.15	4.0	●
2012 018 100	0.010-0.019	1.2	50	1.8	10.0	1.15	4.0	●
2012 018 120	0.010-0.018	1.2	50	1.8	12.0	1.15	4.0	●
2012 018 160	0.010-0.018	1.2	50	1.8	16.0	1.13	4.0	●
2015 023 040	0.015-0.025	1.5	50	2.3	4.0	1.47	4.0	●
2015 023 060	0.015-0.025	1.5	50	2.3	6.0	1.47	4.0	●
2015 023 080	0.015-0.025	1.5	50	2.3	8.0	1.45	4.0	●
2015 023 100	0.015-0.025	1.5	50	2.3	10.0	1.45	4.0	●
2015 023 120	0.013-0.025	1.5	50	2.3	12.0	1.43	4.0	●
2015 023 140	0.013-0.025	1.5	50	2.3	14.0	1.43	4.0	●
2015 023 160	0.011-0.015	1.5	50	2.3	16.0	1.41	4.0	●
2015 023 180	0.011-0.015	1.5	55	2.3	18.0	1.41	4.0	●
2015 023 200	0.011-0.015	1.5	55	2.3	20.0	1.41	4.0	●

●: Standard items

HSF 2

2 flute long neck flat





DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015



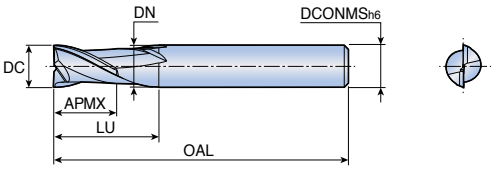
Designation	Feed (mm/tooth)	Dimension (mm)						Grade
		DC	OAL	APMX	LU	DN	DCONMS	TT5505
HSF 2020 030 040	0.018-0.040	2.0	50	3.0	4	1.95	4.0	●
2020 030 060	0.018-0.040	2.0	50	3.0	6	1.95	4.0	●
2020 030 080	0.018-0.040	2.0	50	3.0	8	1.95	4.0	●
2020 030 100	0.018-0.040	2.0	50	3.0	10	1.95	4.0	●
2020 030 120	0.016-0.025	2.0	50	3.0	12	1.93	4.0	●
2020 030 140	0.016-0.025	2.0	50	3.0	14	1.93	4.0	●
2020 030 160	0.015-0.022	2.0	50	3.0	16	1.91	4.0	●
2020 030 180	0.015-0.022	2.0	55	3.0	18	1.91	4.0	●
2020 030 200	0.013-0.019	2.0	55	3.0	20	1.91	4.0	●
2020 030 250	0.013-0.019	2.0	60	3.0	25	1.91	4.0	●
2020 030 300	0.010-0.015	2.0	70	3.0	30	1.91	4.0	●
2025 040 080	0.019-0.045	2.5	50	4.0	8	2.4	4.0	●
2025 040 100	0.019-0.045	2.5	50	4.0	10	2.4	4.0	●
2025 040 120	0.017-0.040	2.5	50	4.0	12	2.4	4.0	●
2025 040 160	0.015-0.030	2.5	50	4.0	16	2.4	4.0	●
2025 040 200	0.013-0.020	2.5	55	4.0	20	2.4	4.0	●
2030 045 080	0.021-0.060	3.0	55	4.5	8	2.85	6.0	●
2030 045 100	0.021-0.060	3.0	55	4.5	10	2.85	6.0	●
2030 045 120	0.018-0.050	3.0	55	4.5	12	2.85	6.0	●
2030 045 140	0.018-0.045	3.0	55	4.5	14	2.85	6.0	●
2030 045 160	0.018-0.045	3.0	55	4.5	16	2.85	6.0	●
2030 045 180	0.015-0.040	3.0	60	4.5	18	2.85	6.0	●
2030 045 200	0.015-0.040	3.0	60	4.5	20	2.85	6.0	●
2030 045 250	0.015-0.040	3.0	60	4.5	25	2.85	6.0	●
2030 045 300	0.015-0.038	3.0	70	4.5	30	2.85	6.0	●
2030 045 350	0.015-0.038	3.0	75	4.5	35	2.85	6.0	●
2030 045 400	0.015-0.030	3.0	80	4.5	40	2.85	6.0	●
2040 060 100	0.030-0.075	4.0	55	6.0	10	3.9	6.0	●
2040 060 120	0.030-0.075	4.0	55	6.0	12	3.9	6.0	●
2040 060 160	0.030-0.075	4.0	55	6.0	16	3.9	6.0	●
2040 060 200	0.030-0.070	4.0	60	6.0	20	3.9	6.0	●
2040 060 250	0.030-0.070	4.0	60	6.0	25	3.9	6.0	●
2040 060 300	0.030-0.070	4.0	70	6.0	30	3.9	6.0	●
2040 060 350	0.030-0.068	4.0	75	6.0	35	3.9	6.0	●
2040 060 400	0.030-0.068	4.0	80	6.0	40	3.9	6.0	●

●: Standard items

HSF 2

2 flute long neck flat





DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015



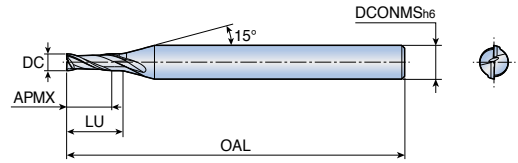
Designation	Feed (mm/tooth)	Dimension (mm)						Grade
		DC	OAL	APMX	LU	DN	DCONMS	TT5505
HSF 2050 080 150	0.056-0.090	5.0	60	8	15	4.8	6.0	●
2050 080 300	0.056-0.090	5.0	90	8	30	4.8	6.0	●
2060 090 150	0.067-0.100	6.0	60	9	15	5.9	6.0	●
2060 090 200	0.067-0.100	6.0	80	9	20	5.9	6.0	●
2060 090 300	0.067-0.100	6.0	90	9	30	5.9	6.0	●
2080 120 200	0.090-0.120	8.0	65	12	20	7.9	8.0	●
2080 120 300	0.090-0.120	8.0	80	12	30	7.9	8.0	●
2080 120 400	0.090-0.120	8.0	100	12	40	7.9	8.0	●
2100 150 250	0.117-0.130	10.0	70	15	25	9.9	10.0	●
2100 150 350	0.117-0.130	10.0	85	15	35	9.9	10.0	●
2100 150 450	0.117-0.130	10.0	100	15	45	9.9	10.0	●
2120 180 300	0.126-0.168	12.0	80	18	30	11.9	12.0	●
2120 180 400	0.126-0.168	12.0	100	18	40	11.9	12.0	●
2120 180 500	0.126-0.168	12.0	120	18	50	11.9	12.0	●

●: Standard items

HSF 2...M

2 flute medium flat





DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015



Designation		Feed (mm/tooth)	Dimension (mm)					Grade
			DC	OAL	APMX	LU	DCONMS	TT5505
HSF	2003M 003	0.006-0.010	0.3	45	0.3	0.6	4.0	●
	2003M 006	0.006-0.010	0.3	45	0.6	0.9	4.0	●
	2004M 004	0.006-0.010	0.4	45	0.4	0.7	4.0	●
	2004M 008	0.006-0.010	0.4	45	0.8	1.1	4.0	●
	2005M 005	0.006-0.010	0.5	45	0.5	0.8	4.0	●
	2005M 010	0.006-0.010	0.5	45	1.0	1.3	4.0	●
	2006M 006	0.008-0.013	0.6	45	0.6	0.9	4.0	●
	2006M 012	0.008-0.013	0.6	45	1.2	1.5	4.0	●
	2008M 008	0.007-0.015	0.8	45	0.8	1.2	4.0	●
	2008M 016	0.007-0.015	0.8	45	1.6	2	4.0	●
	2010M 025	0.009-0.020	1.0	50	2.5	4	6.0	●
	2012M 030	0.010-0.020	1.2	50	3.0	5	6.0	●
	2015M 040	0.015-0.025	1.5	50	4.0	6	6.0	●
	2020M 060	0.018-0.040	2.0	50	6.0	8	6.0	●
	2025M 070	0.019-0.045	2.5	50	7.0	9	6.0	●
	2030M 080	0.021-0.060	3.0	60	8.0	10	6.0	●
	2040M 100	0.030-0.075	4.0	60	10.0	13	6.0	●
	2050M 130	0.056-0.090	5.0	60	13.0	16	6.0	●

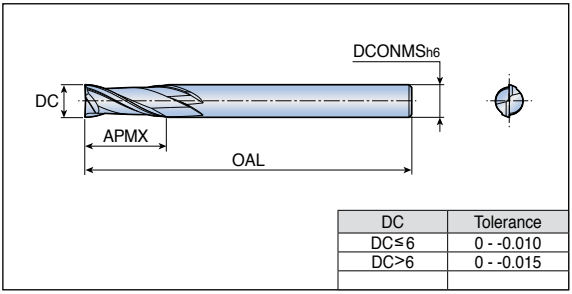
●: Standard items

HSF 2...M

RHINOSOLID HARDMILL

2 flute medium flat





DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015

2 | H·A 30° | Cutting Condition F134

Designation		Feed (mm/tooth)	Dimension (mm)				Grade
			DC	OAL	APMX	DCONMS	TT5505
HSF	2060M 150	0.067-0.100	6.0	60	15.0	6.0	●
	2080M 200	0.090-0.120	8.0	65	20.0	8.0	●
	2100M 250	0.117-0.130	10.0	70	25.0	10.0	●
	2120M 300	0.126-0.168	12.0	80	30.0	12.0	●

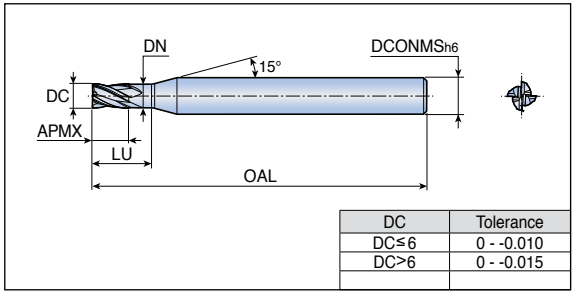
●: Standard items

TaeguTec

HSF 4

4 flute long neck flat





DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015

4 | H·A 30° | Cutting Condition F134

Designation		Feed (mm/tooth)	Dimension (mm)						Grade
			DC	OAL	APMX	LU	DN	DCONMS	TT5505
HSF	4010 015 030	0.009-0.020	1.0	50	1.5	3	0.97	4.0	●
	4010 015 040	0.009-0.020	1.0	50	1.5	4	0.97	4.0	●
	4010 015 060	0.009-0.018	1.0	50	1.5	6	0.97	4.0	●
	4010 015 080	0.009-0.018	1.0	50	1.5	8	0.97	4.0	●
	4010 015 100	0.009-0.016	1.0	50	1.5	10	0.97	4.0	●
	4015 025 040	0.015-0.025	1.5	50	2.5	4	1.45	4.0	●
	4015 025 060	0.015-0.025	1.5	50	2.5	6	1.45	4.0	●
	4015 025 080	0.015-0.025	1.5	50	2.5	8	1.45	4.0	●
	4015 025 100	0.015-0.025	1.5	50	2.5	10	1.45	4.0	●
	4015 025 120	0.013-0.025	1.5	50	2.5	12	1.45	4.0	●
	4015 025 160	0.011-0.015	1.5	50	2.5	16	1.45	4.0	●
	4020 030 060	0.018-0.040	2.0	50	3.0	6	1.95	4.0	●
	4020 030 080	0.018-0.040	2.0	50	3.0	8	1.95	4.0	●
	4020 030 100	0.018-0.040	2.0	50	3.0	10	1.95	4.0	●
	4020 030 120	0.016-0.025	2.0	50	3.0	12	1.95	4.0	●
	4020 030 160	0.015-0.022	2.0	50	3.0	16	1.95	4.0	●
	4020 030 200	0.013-0.019	2.0	50	3.0	20	1.95	4.0	●
	4030 045 080	0.021-0.060	3.0	55	4.5	8	2.85	6.0	●
	4030 045 100	0.021-0.060	3.0	55	4.5	10	2.85	6.0	●
	4030 045 120	0.018-0.050	3.0	55	4.5	12	2.85	6.0	●
	4030 045 160	0.018-0.045	3.0	55	4.5	16	2.85	6.0	●
	4030 045 200	0.015-0.040	3.0	60	4.5	20	2.85	6.0	●
	4040 060 100	0.030-0.075	4.0	55	6.0	10	3.90	6.0	●
	4040 060 120	0.030-0.075	4.0	55	6.0	12	3.90	6.0	●
	4040 060 160	0.030-0.075	4.0	55	6.0	16	3.90	6.0	●
	4040 060 200	0.030-0.070	4.0	60	6.0	20	3.90	6.0	●
	4040 060 250	0.030-0.070	4.0	60	6.0	25	3.90	6.0	●
	4050 080 150	0.056-0.090	5.0	60	8.0	15	4.80	6.0	●
	4050 080 300	0.056-0.090	5.0	90	8.0	30	4.80	6.0	●

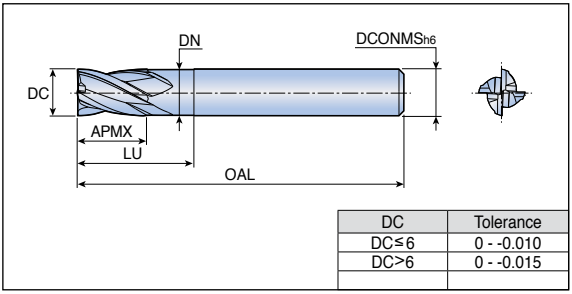
●: Standard items

HSF 4

RHINOSOLID HARDMILL

4 flute long neck flat





DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015



Designation		Feed (mm/tooth)	Dimension (mm)						Grade
			DC	OAL	APMX	LU	DN	DCONMS	TT5505
HSF	4060 090 150	0.067-0.100	6.0	60	9	15	5.9	6.0	●
	4060 090 200	0.067-0.100	6.0	80	9	20	5.9	6.0	●
	4060 090 300	0.067-0.100	6.0	100	9	30	5.9	6.0	●
	4080 120 200	0.090-0.120	8.0	65	12	20	7.9	8.0	●
	4080 120 300	0.090-0.120	8.0	80	12	30	7.9	8.0	●
	4080 120 400	0.090-0.120	8.0	100	12	40	7.9	8.0	●
	4100 150 250	0.117-0.130	10.0	70	15	25	9.9	10.0	●
	4100 150 350	0.117-0.130	10.0	80	15	35	9.9	10.0	●
	4100 150 450	0.117-0.130	10.0	100	15	45	9.9	10.0	●
	4120 180 300	0.126-0.168	12.0	80	18	30	11.9	12.0	●
	4120 180 400	0.126-0.168	12.0	100	18	40	11.9	12.0	●
	4120 180 500	0.126-0.168	12.0	120	18	50	11.9	12.0	●

●: Standard items

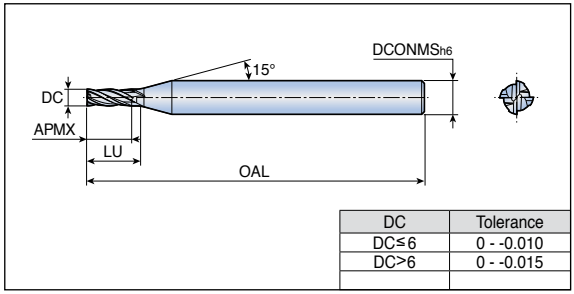
TaeguTec

HSF 4...M

RHINOSOLID HARDMILL

4 flute medium flat





DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015

4 | H·A 30° | Cutting Condition F134

Designation	Feed (mm/tooth)	Dimension (mm)					Grade
		DC	OAL	APMX	LU	DCONMS	TT5505
HSF 4010M 025	0.009-0.020	1.0	50	2.5	3	6.0	●
4012M 030	0.010-0.020	1.2	50	3.0	4	6.0	●
4015M 040	0.015-0.025	1.5	50	4.0	5	6.0	●
4020M 060	0.018-0.040	2.0	50	6.0	7	6.0	●
4025M 070	0.019-0.045	2.5	50	7.0	8.5	6.0	●
4030M 080	0.021-0.060	3.0	60	8.0	9.5	6.0	●
4035M 090	0.026-0.068	3.5	60	9.0	11	6.0	●
4040M 100	0.030-0.075	4.0	60	10.0	12	6.0	●
4050M 130	0.056-0.090	5.0	60	13.0	15.5	6.0	●
4070M 180	0.079-0.110	7.0	65	18.0	22	8.0	●
4090M 220	0.104-0.125	9.0	70	22.0	25	10.0	●
4110M 280	0.122-0.149	11.0	80	28.0	33	12.0	●

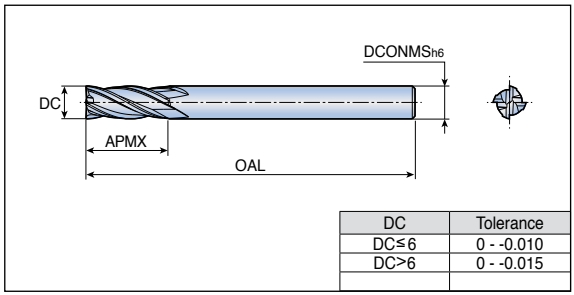
●: Standard items

HSF 4...M

RHINOSOLID HARDMILL

4 flute medium flat





DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015

4 | H·A 30° | Cutting Condition F134

Designation	Feed (mm/tooth)	Dimension (mm)				Grade
		DC	OAL	APMX	DCONMS	TT5505
HSF 4060M 150	0.067-0.100	6.0	60	15.0	6.0	●
4080M 200	0.090-0.120	8.0	65	20.0	8.0	●
4100M 250	0.117-0.130	10.0	70	25.0	10.0	●
4120M 300	0.126-0.168	12.0	80	30.0	12.0	●

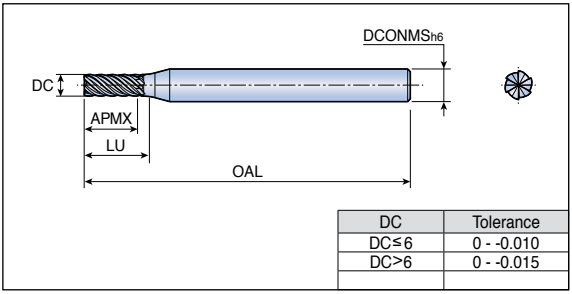
●: Standard items

HSF 6...M

RHINOSOLID HARDMILL

6 flute medium flat





DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015

• Finishing



Designation		Feed (mm/tooth)	Dimension (mm)					Grade
			DC	OAL	APMX	LU	DCONMS	TT5505
HSF	6030M 080	0.010-0.030	3.0	50	8	10	6.0	●
	6040M 100	0.010-0.050	4.0	60	10	12	6.0	●
	6050M 150	0.020-0.050	5.0	60	15	17	6.0	●
	6060M 150	0.038-0.050	6.0	60	15	-	6.0	●
	6080M 200	0.045-0.060	8.0	65	20	-	8.0	●
	6100M 220	0.045-0.060	10.0	70	22	-	10.0	●
	6120M 260	0.053-0.070	12.0	80	26	-	12.0	●

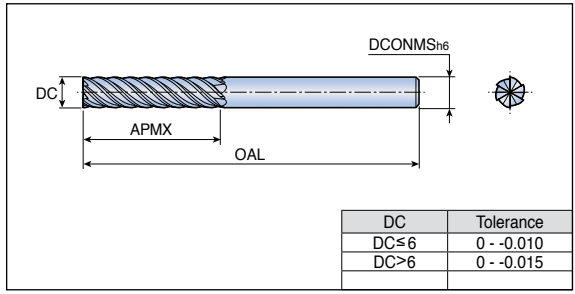
●: Standard items

HSF 6...XLT

RHINOSOLID HARDMILL

6 flute extra long flat





DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015

• Finishing



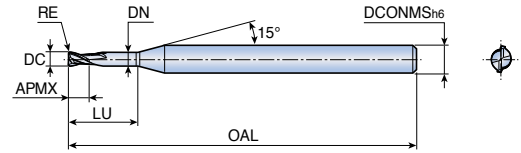
Designation		Feed (mm/tooth)	Dimension (mm)				Grade
			DC	OAL	APMX	DCONMS	TT5505
HSF	6050XLT 250	0.03-0.05	5.0	80	25	6.0	●
	6060XLT 250	0.03-0.05	6.0	80	25	6.0	●
	6080XLT 350	0.04-0.06	8.0	90	35	8.0	●
	6100XLT 450	0.04-0.06	10.0	100	45	10.0	●
	6120XLT 550	0.05-0.07	12.0	110	55	12.0	●

●: Standard items

HSR 2

2 flute long neck corner radius





RE ±0.005

DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015

2 | H·A 30° | Cutting Condition F134

Designation	Feed (mm/tooth)	Dimension (mm)							Grade
		DC	RE	OAL	APMX	LU	DN	DCONMS	TT5505
HSR 2003 005 010	0.006-0.010	0.3	0.05	45	0.4	1.0	0.27	4.0	●
2003 005 020	0.006-0.010	0.3	0.05	45	0.4	2.0	0.27	4.0	●
2003 005 030	0.006-0.010	0.3	0.05	45	0.4	3.0	0.27	4.0	●
2004 005 010	0.006-0.010	0.4	0.05	45	0.6	1.0	0.37	4.0	●
2004 005 015	0.006-0.010	0.4	0.05	45	0.6	1.5	0.37	4.0	●
2004 005 025	0.006-0.010	0.4	0.05	45	0.6	2.5	0.37	4.0	●
2004 005 030	0.006-0.010	0.4	0.05	45	0.6	3.0	0.37	4.0	●
2004 005 040	0.006-0.010	0.4	0.05	45	0.6	4.0	0.37	4.0	●
2005 005 010	0.006-0.010	0.5	0.05	45	0.7	1.0	0.45	4.0	●
2005 005 015	0.006-0.010	0.5	0.05	45	0.7	1.5	0.45	4.0	●
2005 005 025	0.006-0.009	0.5	0.05	45	0.7	2.5	0.45	4.0	●
2005 005 030	0.006-0.009	0.5	0.05	45	0.7	3.0	0.45	4.0	●
2005 005 040	0.006-0.008	0.5	0.05	45	0.7	4.0	0.45	4.0	●
2006 005 020	0.008-0.013	0.6	0.05	45	0.9	2.0	0.55	4.0	●
2006 005 040	0.008-0.013	0.6	0.05	45	0.9	4.0	0.55	4.0	●
2006 005 060	0.008-0.013	0.6	0.05	45	0.9	6.0	0.55	4.0	●
2006 010 020	0.008-0.013	0.6	0.10	45	0.9	2.0	0.55	4.0	●
2006 010 040	0.008-0.013	0.6	0.10	45	0.9	4.0	0.55	4.0	●
2006 010 060	0.008-0.013	0.6	0.10	45	0.9	6.0	0.55	4.0	●
2006 020 020	0.008-0.013	0.6	0.20	45	0.9	2.0	0.55	4.0	●
2006 020 040	0.008-0.013	0.6	0.20	45	0.9	4.0	0.55	4.0	●
2006 020 060	0.008-0.013	0.6	0.20	45	0.9	6.0	0.55	4.0	●
2008 005 020	0.007-0.015	0.8	0.05	45	1.2	2.0	0.75	4.0	●
2008 005 040	0.007-0.015	0.8	0.05	45	1.2	4.0	0.75	4.0	●
2008 005 060	0.007-0.015	0.8	0.05	45	1.2	6.0	0.75	4.0	●
2008 005 080	0.007-0.013	0.8	0.05	45	1.2	8.0	0.73	4.0	●
2008 010 020	0.007-0.015	0.8	0.10	45	1.2	2.0	0.75	4.0	●
2008 010 040	0.007-0.015	0.8	0.10	45	1.2	4.0	0.75	4.0	●
2008 010 060	0.007-0.015	0.8	0.10	45	1.2	6.0	0.75	4.0	●
2008 010 080	0.007-0.013	0.8	0.10	45	1.2	8.0	0.73	4.0	●
2008 020 020	0.007-0.015	0.8	0.20	45	1.2	2.0	0.75	4.0	●
2008 020 040	0.007-0.015	0.8	0.20	45	1.2	4.0	0.75	4.0	●
2008 020 060	0.007-0.015	0.8	0.20	45	1.2	6.0	0.75	4.0	●
2008 020 080	0.007-0.013	0.8	0.20	45	1.2	8.0	0.73	4.0	●

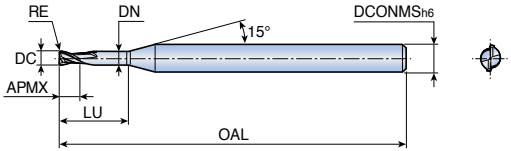
●: Standard items

HSR 2

RHINOSOLID HARDMILL

2 flute long neck corner radius





RE	±0.005

DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015



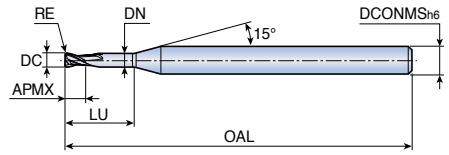
Designation	Feed (mm/tooth)	Dimension (mm)							Grade
		DC	RE	OAL	APMX	LU	DN	DCONMS	TT5505
HSR 2010 005 030	0.009-0.020	1.0	0.05	50	2.0	3	0.97	4.0	●
2010 005 040	0.009-0.020	1.0	0.05	50	2.0	4	0.97	4.0	●
2010 005 060	0.009-0.018	1.0	0.05	50	2.0	6	0.97	4.0	●
2010 005 080	0.009-0.018	1.0	0.05	50	2.0	8	0.95	4.0	●
2010 005 100	0.009-0.016	1.0	0.05	50	2.0	10	0.95	4.0	●
2010 010 030	0.009-0.020	1.0	0.10	50	2.0	3	0.97	4.0	●
2010 010 040	0.009-0.020	1.0	0.10	50	2.0	4	0.97	4.0	●
2010 010 060	0.009-0.018	1.0	0.10	50	2.0	6	0.97	4.0	●
2010 010 080	0.009-0.018	1.0	0.10	50	2.0	8	0.95	4.0	●
2010 010 100	0.009-0.016	1.0	0.10	50	2.0	10	0.95	4.0	●
2010 020 030	0.009-0.020	1.0	0.20	50	2.0	3	0.97	4.0	●
2010 020 040	0.009-0.020	1.0	0.20	50	2.0	4	0.97	4.0	●
2010 020 060	0.009-0.018	1.0	0.20	50	2.0	6	0.97	4.0	●
2010 020 080	0.009-0.018	1.0	0.20	50	2.0	8	0.95	4.0	●
2010 020 100	0.009-0.016	1.0	0.20	50	2.0	10	0.95	4.0	●
2010 030 030	0.009-0.020	1.0	0.30	50	2.0	3	0.97	4.0	●
2010 030 040	0.009-0.020	1.0	0.30	50	2.0	4	0.97	4.0	●
2010 030 060	0.009-0.018	1.0	0.30	50	2.0	6	0.97	4.0	●
2010 030 080	0.009-0.018	1.0	0.30	50	2.0	8	0.95	4.0	●
2010 030 100	0.009-0.016	1.0	0.30	50	2.0	10	0.95	4.0	●
2012 010 040	0.010-0.020	1.2	0.10	50	2.2	4	1.17	4.0	●
2012 010 060	0.010-0.020	1.2	0.10	50	2.2	6	1.17	4.0	●
2012 010 080	0.010-0.020	1.2	0.10	50	2.2	8	1.15	4.0	●
2012 010 100	0.010-0.019	1.2	0.10	50	2.2	10	1.15	4.0	●
2012 020 040	0.010-0.020	1.2	0.20	50	2.2	4	1.17	4.0	●
2012 020 060	0.010-0.020	1.2	0.20	50	2.2	6	1.17	4.0	●
2012 020 080	0.010-0.020	1.2	0.20	50	2.2	8	1.15	4.0	●
2012 020 100	0.010-0.019	1.2	0.20	50	2.2	10	1.15	4.0	●
2012 030 040	0.010-0.020	1.2	0.30	50	2.2	4	1.17	4.0	●
2012 030 060	0.010-0.020	1.2	0.30	50	2.2	6	1.17	4.0	●
2012 030 080	0.010-0.020	1.2	0.30	50	2.2	8	1.15	4.0	●
2012 030 100	0.010-0.019	1.2	0.30	50	2.2	10	1.15	4.0	●

●: Standard items

HSR 2

2 flute long neck corner radius





RE ±0.005

DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015

2 | H·A 30° | Cutting Condition F134

Designation	Feed (mm/tooth)	Dimension (mm)							Grade
		DC	RE	OAL	APMX	LU	DN	DCONMS	TT5505
HSR 2015 005 060	0.015-0.025	1.5	0.05	50	2.5	6	1.47	4.0	●
2015 005 080	0.015-0.025	1.5	0.05	50	2.5	8	1.45	4.0	●
2015 005 100	0.015-0.025	1.5	0.05	50	2.5	10	1.45	4.0	●
2015 005 120	0.013-0.025	1.5	0.05	50	2.5	12	1.43	4.0	●
2015 010 040	0.015-0.025	1.5	0.10	50	2.5	4	1.47	4.0	●
2015 010 060	0.015-0.025	1.5	0.10	50	2.5	6	1.47	4.0	●
2015 010 080	0.015-0.025	1.5	0.10	50	2.5	8	1.45	4.0	●
2015 010 100	0.015-0.025	1.5	0.10	50	2.5	10	1.45	4.0	●
2015 010 120	0.013-0.025	1.5	0.10	50	2.5	12	1.43	4.0	●
2015 020 040	0.015-0.025	1.5	0.20	50	2.5	4	1.47	4.0	●
2015 020 060	0.015-0.025	1.5	0.20	50	2.5	6	1.47	4.0	●
2015 020 080	0.015-0.025	1.5	0.20	50	2.5	8	1.45	4.0	●
2015 020 100	0.015-0.025	1.5	0.20	50	2.5	10	1.45	4.0	●
2015 020 120	0.013-0.025	1.5	0.20	50	2.5	12	1.43	4.0	●
2015 030 040	0.015-0.025	1.5	0.30	50	2.5	4	1.47	4.0	●
2015 030 060	0.015-0.025	1.5	0.30	50	2.5	6	1.47	4.0	●
2015 030 080	0.015-0.025	1.5	0.30	50	2.5	8	1.45	4.0	●
2015 030 100	0.015-0.025	1.5	0.30	50	2.5	10	1.45	4.0	●
2015 030 120	0.013-0.025	1.5	0.30	50	2.5	12	1.43	4.0	●
2015 050 040	0.015-0.025	1.5	0.50	50	2.5	4	1.47	4.0	●
2015 050 060	0.015-0.025	1.5	0.50	50	2.5	6	1.47	4.0	●
2015 050 080	0.015-0.025	1.5	0.50	50	2.5	8	1.45	4.0	●
2015 050 100	0.015-0.025	1.5	0.50	50	2.5	10	1.45	4.0	●
2015 050 120	0.013-0.025	1.5	0.50	50	2.5	12	1.43	4.0	●
2020 010 060	0.018-0.040	2.0	0.10	50	3.0	6	1.95	4.0	●
2020 010 080	0.018-0.040	2.0	0.10	50	3.0	8	1.95	4.0	●
2020 010 100	0.018-0.040	2.0	0.10	50	3.0	10	1.95	4.0	●
2020 010 120	0.016-0.025	2.0	0.10	50	3.0	12	1.93	4.0	●
2020 010 160	0.015-0.022	2.0	0.10	50	3.0	16	1.91	4.0	●
2020 010 200	0.013-0.019	2.0	0.10	50	3.0	20	1.91	4.0	●

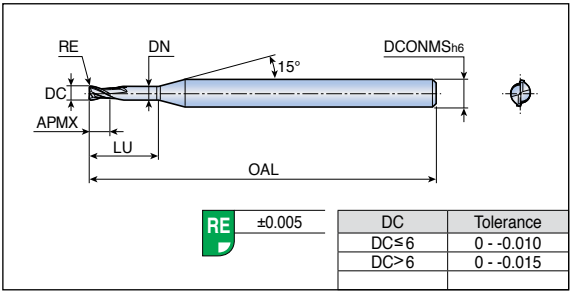
●: Standard items

HSR 2

RHINOSOLID HARDMILL

2 flute long neck corner radius





RE	±0.005

DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015

2 | H·A 30° | Cutting Condition F134

Designation	Feed (mm/tooth)	Dimension (mm)							Grade
		DC	RE	OAL	APMX	LU	DN	DCONMS	TT5505
HSR 2020 020 060	0.018-0.040	2.0	0.2	50	3.0	6	1.95	4.0	●
2020 020 080	0.018-0.040	2.0	0.2	50	3.0	8	1.95	4.0	●
2020 020 100	0.018-0.040	2.0	0.2	50	3.0	10	1.95	4.0	●
2020 020 120	0.016-0.025	2.0	0.2	50	3.0	12	1.93	4.0	●
2020 020 160	0.015-0.022	2.0	0.2	50	3.0	16	1.91	4.0	●
2020 020 200	0.013-0.019	2.0	0.2	50	3.0	20	1.91	4.0	●
2020 030 060	0.018-0.040	2.0	0.3	50	3.0	6	1.95	4.0	●
2020 030 080	0.018-0.040	2.0	0.3	50	3.0	8	1.95	4.0	●
2020 030 100	0.018-0.040	2.0	0.3	50	3.0	10	1.95	4.0	●
2020 030 120	0.016-0.025	2.0	0.3	50	3.0	12	1.93	4.0	●
2020 030 160	0.015-0.022	2.0	0.3	50	3.0	16	1.91	4.0	●
2020 030 200	0.013-0.019	2.0	0.3	50	3.0	20	1.91	4.0	●
2020 050 060	0.018-0.040	2.0	0.5	50	3.0	6	1.95	4.0	●
2020 050 080	0.018-0.040	2.0	0.5	50	3.0	8	1.95	4.0	●
2020 050 100	0.018-0.040	2.0	0.5	50	3.0	10	1.95	4.0	●
2020 050 120	0.016-0.025	2.0	0.5	50	3.0	12	1.93	4.0	●
2020 050 160	0.015-0.022	2.0	0.5	50	3.0	16	1.91	4.0	●
2020 050 200	0.013-0.019	2.0	0.5	50	3.0	20	1.91	4.0	●
2025 020 080	0.019-0.045	2.5	0.2	55	3.5	8	2.4	4.0	●
2025 020 100	0.019-0.045	2.5	0.2	55	3.5	10	2.4	4.0	●
2025 020 120	0.017-0.040	2.5	0.2	55	3.5	12	2.4	4.0	●
2025 020 160	0.015-0.030	2.5	0.2	55	3.5	16	2.4	4.0	●
2025 030 080	0.019-0.045	2.5	0.3	55	3.5	8	2.4	4.0	●
2025 030 100	0.019-0.045	2.5	0.3	55	3.5	10	2.4	4.0	●
2025 030 120	0.017-0.040	2.5	0.3	55	3.5	12	2.4	4.0	●
2025 030 160	0.015-0.030	2.5	0.3	55	3.5	16	2.4	4.0	●
2025 050 080	0.019-0.045	2.5	0.5	55	3.5	8	2.4	4.0	●
2025 050 100	0.019-0.045	2.5	0.5	55	3.5	10	2.4	4.0	●
2025 050 120	0.017-0.040	2.5	0.5	55	3.5	12	2.4	4.0	●
2025 050 160	0.015-0.030	2.5	0.5	55	3.5	16	2.4	4.0	●

●: Standard items

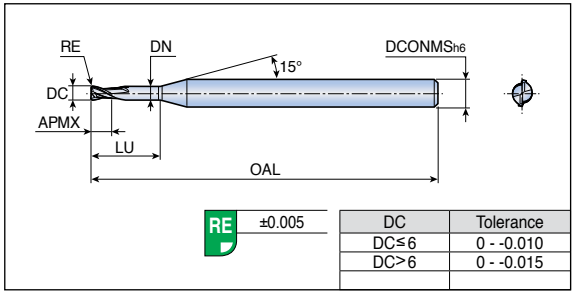
TaeguTec

HSR 2

RHINOSOLID HARDMILL

2 flute long neck corner radius





RE	±0.005

DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015

2 | H·A 30° | Cutting Condition F134

Designation	Feed (mm/tooth)	Dimension (mm)							Grade
		DC	RE	OAL	APMX	LU	DN	DCONMS	TT5505
HSR 2030 010 080	0.021-0.060	3.0	0.1	55	4.5	8	2.85	6.0	●
2030 010 100	0.021-0.060	3.0	0.1	55	4.5	10	2.85	6.0	●
2030 010 120	0.018-0.050	3.0	0.1	55	4.5	12	2.85	6.0	●
2030 010 160	0.018-0.045	3.0	0.1	55	4.5	16	2.85	6.0	●
2030 010 200	0.015-0.040	3.0	0.1	60	4.5	20	2.85	6.0	●
2030 010 250	0.015-0.040	3.0	0.1	60	4.5	25	2.85	6.0	●
2030 020 080	0.021-0.060	3.0	0.2	55	4.5	8	2.85	6.0	●
2030 020 100	0.021-0.060	3.0	0.2	55	4.5	10	2.85	6.0	●
2030 020 120	0.018-0.050	3.0	0.2	55	4.5	12	2.85	6.0	●
2030 020 160	0.018-0.045	3.0	0.2	55	4.5	16	2.85	6.0	●
2030 020 200	0.015-0.040	3.0	0.2	60	4.5	20	2.85	6.0	●
2030 020 250	0.015-0.040	3.0	0.2	60	4.5	25	2.85	6.0	●
2030 030 080	0.021-0.060	3.0	0.3	55	4.5	8	2.85	6.0	●
2030 030 100	0.021-0.060	3.0	0.3	55	4.5	10	2.85	6.0	●
2030 030 120	0.018-0.050	3.0	0.3	55	4.5	12	2.85	6.0	●
2030 030 160	0.018-0.045	3.0	0.3	55	4.5	16	2.85	6.0	●
2030 030 200	0.015-0.040	3.0	0.3	60	4.5	20	2.85	6.0	●
2030 030 250	0.015-0.040	3.0	0.3	60	4.5	25	2.85	6.0	●
2030 050 080	0.021-0.060	3.0	0.5	55	4.5	8	2.85	6.0	●
2030 050 100	0.021-0.060	3.0	0.5	55	4.5	10	2.85	6.0	●
2030 050 120	0.018-0.050	3.0	0.5	55	4.5	12	2.85	6.0	●
2030 050 160	0.018-0.045	3.0	0.5	55	4.5	16	2.85	6.0	●
2030 050 200	0.015-0.040	3.0	0.5	60	4.5	20	2.85	6.0	●
2030 050 250	0.015-0.040	3.0	0.5	60	4.5	25	2.85	6.0	●
2030 100 080	0.021-0.060	3.0	1.0	55	4.5	8	2.85	6.0	●
2030 100 100	0.021-0.060	3.0	1.0	55	4.5	10	2.85	6.0	●
2030 100 120	0.018-0.050	3.0	1.0	55	4.5	12	2.85	6.0	●
2030 100 160	0.018-0.045	3.0	1.0	55	4.5	16	2.85	6.0	●
2030 100 200	0.015-0.040	3.0	1.0	60	4.5	20	2.85	6.0	●

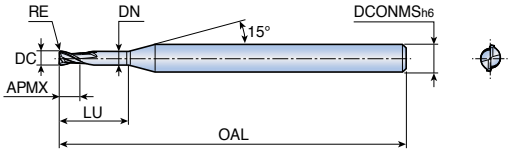
●: Standard items

HSR 2

RHINOSOLID HARDMILL

2 flute long neck corner radius





2 | H·A 30° | Cutting Condition F134

RE ±0.005

DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015

Designation	Feed (mm/tooth)	Dimension (mm)							Grade
		DC	RE	OAL	APMX	LU	DN	DCONMS	TT5505
HSR 2040 010 100	0.030-0.075	4.0	0.1	55	6.0	10	3.9	6.0	●
2040 010 120	0.030-0.075	4.0	0.1	55	6.0	12	3.9	6.0	●
2040 010 160	0.030-0.075	4.0	0.1	55	6.0	16	3.9	6.0	●
2040 010 200	0.030-0.070	4.0	0.1	60	6.0	20	3.9	6.0	●
2040 010 250	0.030-0.070	4.0	0.1	60	6.0	25	3.9	6.0	●
2040 010 300	0.030-0.070	4.0	0.1	70	6.0	30	3.9	6.0	●
2040 020 100	0.030-0.075	4.0	0.2	55	6.0	10	3.9	6.0	●
2040 020 120	0.030-0.075	4.0	0.2	55	6.0	12	3.9	6.0	●
2040 020 160	0.030-0.075	4.0	0.2	55	6.0	16	3.9	6.0	●
2040 020 200	0.030-0.070	4.0	0.2	60	6.0	20	3.9	6.0	●
2040 020 250	0.030-0.070	4.0	0.2	60	6.0	25	3.9	6.0	●
2040 020 300	0.030-0.070	4.0	0.2	70	6.0	30	3.9	6.0	●
2040 030 100	0.030-0.075	4.0	0.3	55	6.0	10	3.9	6.0	●
2040 030 120	0.030-0.075	4.0	0.3	55	6.0	12	3.9	6.0	●
2040 030 160	0.030-0.075	4.0	0.3	55	6.0	16	3.9	6.0	●
2040 030 200	0.030-0.070	4.0	0.3	60	6.0	20	3.9	6.0	●
2040 030 250	0.030-0.070	4.0	0.3	60	6.0	25	3.9	6.0	●
2040 030 300	0.030-0.070	4.0	0.3	70	6.0	30	3.9	6.0	●
2040 050 100	0.030-0.075	4.0	0.5	55	6.0	10	3.9	6.0	●
2040 050 120	0.030-0.075	4.0	0.5	55	6.0	12	3.9	6.0	●
2040 050 160	0.030-0.075	4.0	0.5	55	6.0	16	3.9	6.0	●
2040 050 200	0.030-0.070	4.0	0.5	60	6.0	20	3.9	6.0	●
2040 050 250	0.030-0.070	4.0	0.5	60	6.0	25	3.9	6.0	●
2040 050 300	0.030-0.070	4.0	0.5	70	6.0	30	3.9	6.0	●
2040 100 100	0.030-0.075	4.0	1.0	55	6.0	10	3.9	6.0	●
2040 100 120	0.030-0.075	4.0	1.0	55	6.0	12	3.9	6.0	●
2040 100 160	0.030-0.075	4.0	1.0	55	6.0	16	3.9	6.0	●
2040 100 200	0.030-0.070	4.0	1.0	60	6.0	20	3.9	6.0	●
2040 100 250	0.030-0.070	4.0	1.0	60	6.0	25	3.9	6.0	●

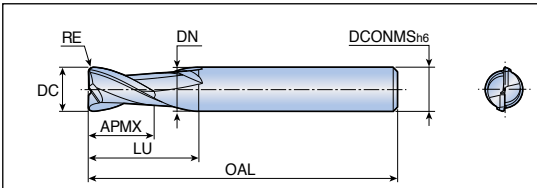
●: Standard items

HSR 2

RHINOSOLID HARDMILL

2 flute long neck corner radius





RE ±0.005

DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015

2 | H·A 30° | Cutting Condition F134

Designation		Feed (mm/tooth)	Dimension (mm)							Grade
			DC	RE	OAL	APMX	LU	DN	DCONMS	TT5505
HSR	2060 020 150	0.067-0.100	6.0	0.2	60	9	15	5.9	6.0	●
	2060 030 150	0.067-0.100	6.0	0.3	60	9	15	5.9	6.0	●
	2060 030 200	0.067-0.100	6.0	0.3	60	9	20	5.9	6.0	●
	2060 050 150	0.067-0.100	6.0	0.5	60	9	15	5.9	6.0	●
	2060 050 200	0.067-0.100	6.0	0.5	60	9	20	5.9	6.0	●
	2060 100 150	0.067-0.100	6.0	1.0	60	9	15	5.9	6.0	●
	2060 100 200	0.067-0.100	6.0	1.0	60	9	20	5.9	6.0	●
	2060 150 150	0.067-0.100	6.0	1.5	60	9	15	5.9	6.0	●
	2060 200 150	0.067-0.100	6.0	2.0	60	9	15	5.9	6.0	●
	2080 020 200	0.090-0.120	8.0	0.2	65	12	20	7.9	8.0	●
	2080 030 200	0.090-0.120	8.0	0.3	65	12	20	7.9	8.0	●
	2080 050 200	0.090-0.120	8.0	0.5	65	12	20	7.9	8.0	●
	2080 100 200	0.090-0.120	8.0	1.0	65	12	20	7.9	8.0	●
	2080 150 200	0.090-0.120	8.0	1.5	65	12	20	7.9	8.0	●
	2100 020 250	0.117-0.130	10.0	0.2	75	15	25	9.9	10.0	●
	2100 030 250	0.117-0.130	10.0	0.3	75	15	25	9.9	10.0	●
	2100 050 250	0.117-0.130	10.0	0.5	75	15	25	9.9	10.0	●
	2100 100 250	0.117-0.130	10.0	1.0	75	15	25	9.9	10.0	●
	2100 150 250	0.117-0.130	10.0	1.5	75	15	25	9.9	10.0	●
	2100 200 250	0.117-0.130	10.0	2.0	75	15	25	9.9	10.0	●
	2120 030 280	0.126-0.168	12.0	0.3	85	18	28	11.9	12.0	●
	2120 050 280	0.126-0.168	12.0	0.5	85	18	28	11.9	12.0	●
	2120 100 280	0.126-0.168	12.0	1.0	85	18	28	11.9	12.0	●
	2120 150 280	0.126-0.168	12.0	1.5	85	18	28	11.9	12.0	●
	2120 200 280	0.126-0.168	12.0	2.0	85	18	28	11.9	12.0	●

●: Standard items

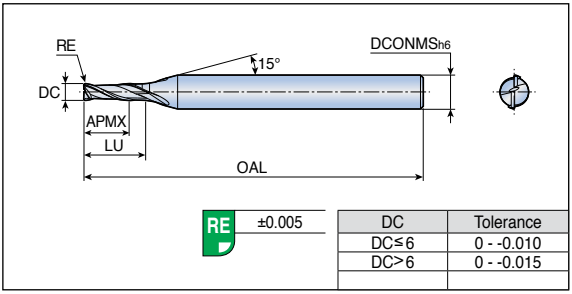
HSR 2...M

RHINOSOLID HARDMILL

2 flute medium corner radius







RE ±0.005

DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015

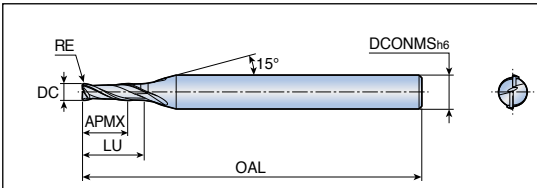
Designation	Feed (mm/tooth)	Dimension (mm)						Grade
		DC	RE	OAL	APMX	LU	DCONMS	TT5505
HSR 2003M 002	0.006-0.010	0.3	0.02	45	0.6	0.9	4.0	●
2003M 005	0.006-0.010	0.3	0.05	45	0.6	0.9	4.0	●
2004M 005	0.006-0.010	0.4	0.05	45	0.8	1.1	4.0	●
2004M 010	0.006-0.010	0.4	0.10	45	0.8	1.1	4.0	●
2005M 005	0.006-0.010	0.5	0.05	45	1.0	1.3	4.0	●
2005M 010	0.006-0.010	0.5	0.10	45	1.0	1.3	4.0	●
2006M 005	0.008-0.013	0.6	0.05	45	1.2	1.5	4.0	●
2006M 010	0.008-0.013	0.6	0.10	45	1.2	1.5	4.0	●
2006M 020	0.008-0.013	0.6	0.20	45	1.2	1.5	4.0	●
2008M 005	0.007-0.015	0.8	0.05	45	1.6	2	4.0	●
2008M 010	0.007-0.015	0.8	0.10	45	1.6	2	4.0	●
2008M 020	0.007-0.015	0.8	0.20	45	1.6	2	4.0	●
2010M 005	0.009-0.020	1.0	0.05	50	2.0	3.5	6.0	●
2010M 010	0.009-0.020	1.0	0.10	50	2.0	3.5	6.0	●
2010M 020	0.009-0.020	1.0	0.20	50	2.0	3.5	6.0	●
2010M 030	0.009-0.020	1.0	0.30	50	2.0	3.5	6.0	●
2012M 005	0.010-0.020	1.2	0.05	50	2.5	4	6.0	●
2012M 010	0.010-0.020	1.2	0.10	50	2.5	4	6.0	●
2012M 020	0.010-0.020	1.2	0.20	50	2.5	4	6.0	●
2012M 030	0.010-0.020	1.2	0.30	50	2.5	4	6.0	●
2015M 005	0.015-0.025	1.5	0.05	50	3.0	5	6.0	●
2015M 010	0.015-0.025	1.5	0.10	50	3.0	5	6.0	●
2015M 020	0.015-0.025	1.5	0.20	50	3.0	5	6.0	●
2015M 030	0.015-0.025	1.5	0.30	50	3.0	5	6.0	●
2020M 010	0.018-0.040	2.0	0.10	50	5.0	7	6.0	●
2020M 020	0.018-0.040	2.0	0.20	50	5.0	7	6.0	●
2020M 030	0.018-0.040	2.0	0.30	50	5.0	7	6.0	●
2020M 040	0.018-0.040	2.0	0.40	50	5.0	7	6.0	●
2020M 050	0.018-0.040	2.0	0.50	50	5.0	7	6.0	●
2025M 010	0.019-0.045	2.5	0.10	60	7.0	9	6.0	●
2025M 020	0.019-0.045	2.5	0.20	60	7.0	9	6.0	●
2025M 030	0.019-0.045	2.5	0.30	60	7.0	9	6.0	●
2025M 050	0.019-0.045	2.5	0.50	60	7.0	9	6.0	●

●: Standard items

HSR 2...M

2 flute medium corner radius





RE ±0.005

DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015

2 | H·A 30° | Cutting Condition F134

Designation	Feed (mm/tooth)	Dimension (mm)						Grade
		DC	RE	OAL	APMX	LU	DCONMS	TT5505
HSR 2030M 010	0.021-0.06	3.0	0.1	60	8.0	10	6.0	●
2030M 020	0.021-0.06	3.0	0.2	60	8.0	10	6.0	●
2030M 030	0.021-0.06	3.0	0.3	60	8.0	10	6.0	●
2030M 050	0.021-0.06	3.0	0.5	60	8.0	10	6.0	●
2040M 010	0.03-0.075	4.0	0.1	70	10.0	13	6.0	●
2040M 020	0.03-0.075	4.0	0.2	70	10.0	13	6.0	●
2040M 030	0.03-0.075	4.0	0.3	70	10.0	13	6.0	●
2040M 050	0.03-0.075	4.0	0.5	70	10.0	13	6.0	●
2040M 100	0.03-0.075	4.0	1.0	70	10.0	13	6.0	●

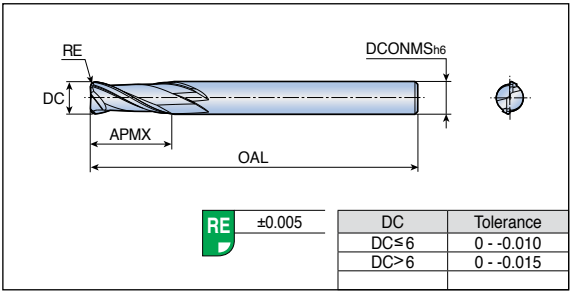
●: Standard items

HSR 2...M

RHINOSOLID HARDMILL

2 flute medium corner radius





RE	±0.005

DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015



Designation	Feed (mm/tooth)	Dimension (mm)					Grade
		DC	RE	OAL	APMX	DCONMS	TT5505
HSR 2060M 020	0.067-0.100	6.0	0.2	90	15.0	6.0	●
2060M 030	0.067-0.100	6.0	0.3	90	15.0	6.0	●
2060M 050	0.067-0.100	6.0	0.5	90	15.0	6.0	●
2060M 100	0.067-0.100	6.0	1.0	90	15.0	6.0	●
2080M 010	0.090-0.120	8.0	0.1	100	20.0	8.0	●
2080M 020	0.090-0.120	8.0	0.2	100	20.0	8.0	●
2080M 030	0.090-0.120	8.0	0.3	100	20.0	8.0	●
2080M 050	0.090-0.120	8.0	0.5	100	20.0	8.0	●
2080M 100	0.090-0.120	8.0	1.0	100	20.0	8.0	●
2080M 200	0.090-0.120	8.0	2.0	100	20.0	8.0	●
2100M 020	0.117-0.130	10.0	0.2	100	25.0	10.0	●
2100M 030	0.117-0.130	10.0	0.3	100	25.0	10.0	●
2100M 050	0.117-0.130	10.0	0.5	100	25.0	10.0	●
2100M 100	0.117-0.130	10.0	1.0	100	25.0	10.0	●
2100M 200	0.117-0.130	10.0	2.0	100	25.0	10.0	●
2120M 020	0.126-0.168	12.0	0.2	110	30.0	12.0	●
2120M 030	0.126-0.168	12.0	0.3	110	30.0	12.0	●
2120M 050	0.126-0.168	12.0	0.5	110	30.0	12.0	●
2120M 100	0.126-0.168	12.0	1.0	110	30.0	12.0	●
2120M 200	0.126-0.168	12.0	2.0	110	30.0	12.0	●

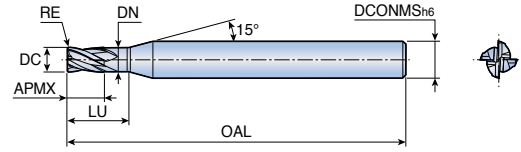
●: Standard items

HSR 4

RHINOSOLID HARDMILL

4 flute long neck corner radius





4 | H·A 30° | Cutting Condition F134

RE ±0.005

DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015

Designation	Feed (mm/tooth)	Dimension (mm)							Grade
		DC	RE	OAL	APMX	LU	DN	DCONMS	TT5505
HSR 4010 010 030	0.009-0.020	1.0	0.1	50	2.0	3	0.97	4.0	●
4010 010 040	0.009-0.020	1.0	0.1	50	2.0	4	0.97	4.0	●
4010 010 060	0.009-0.018	1.0	0.1	50	2.0	6	0.97	4.0	●
4010 020 030	0.009-0.020	1.0	0.2	50	2.0	3	0.97	4.0	●
4010 020 040	0.009-0.020	1.0	0.2	50	2.0	4	0.97	4.0	●
4010 020 060	0.009-0.018	1.0	0.2	50	2.0	6	0.97	4.0	●
4010 030 030	0.009-0.020	1.0	0.3	50	2.0	3	0.97	4.0	●
4010 030 040	0.009-0.020	1.0	0.3	50	2.0	4	0.97	4.0	●
4010 030 060	0.009-0.018	1.0	0.3	50	2.0	6	0.97	4.0	●
4015 010 040	0.015-0.025	1.5	0.1	50	2.5	4	1.45	4.0	●
4015 010 060	0.015-0.025	1.5	0.1	50	2.5	6	1.45	4.0	●
4015 020 040	0.015-0.025	1.5	0.2	50	2.5	4	1.45	4.0	●
4015 020 060	0.015-0.025	1.5	0.2	50	2.5	6	1.45	4.0	●
4015 030 040	0.015-0.025	1.5	0.3	50	2.5	4	1.45	4.0	●
4015 030 060	0.015-0.025	1.5	0.3	50	2.5	6	1.45	4.0	●
4020 010 060	0.018-0.040	2.0	0.1	50	3.0	6	1.95	4.0	●
4020 010 080	0.018-0.040	2.0	0.1	50	3.0	8	1.95	4.0	●
4020 010 100	0.018-0.040	2.0	0.1	50	3.0	10	1.95	4.0	●
4020 010 120	0.016-0.025	2.0	0.1	50	3.0	12	1.95	4.0	●
4020 010 160	0.015-0.022	2.0	0.1	50	3.0	16	1.95	4.0	●
4020 020 060	0.018-0.040	2.0	0.2	50	3.0	6	1.95	4.0	●
4020 020 080	0.018-0.040	2.0	0.2	50	3.0	8	1.95	4.0	●
4020 020 100	0.018-0.040	2.0	0.2	50	3.0	10	1.95	4.0	●
4020 020 120	0.016-0.025	2.0	0.2	50	3.0	12	1.95	4.0	●
4020 020 160	0.015-0.022	2.0	0.2	50	3.0	16	1.95	4.0	●
4020 030 060	0.018-0.040	2.0	0.3	50	3.0	6	1.95	4.0	●
4020 030 080	0.018-0.040	2.0	0.3	50	3.0	8	1.95	4.0	●
4020 030 100	0.018-0.040	2.0	0.3	50	3.0	10	1.95	4.0	●
4020 030 120	0.016-0.025	2.0	0.3	50	3.0	12	1.95	4.0	●
4020 030 160	0.015-0.022	2.0	0.3	50	3.0	16	1.95	4.0	●
4020 050 060	0.018-0.040	2.0	0.5	50	3.0	6	1.95	4.0	●
4020 050 080	0.018-0.040	2.0	0.5	50	3.0	8	1.95	4.0	●
4020 050 100	0.018-0.040	2.0	0.5	50	3.0	10	1.95	4.0	●
4020 050 120	0.016-0.025	2.0	0.5	50	3.0	12	1.95	4.0	●
4020 050 160	0.015-0.022	2.0	0.5	50	3.0	16	1.95	4.0	●

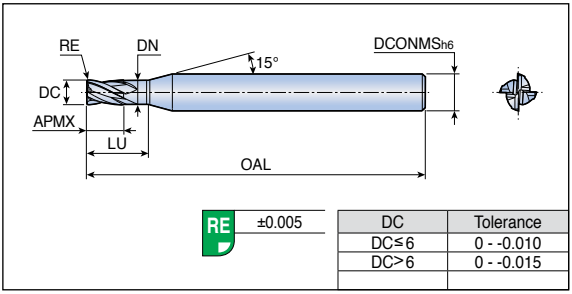
●: Standard items

HSR 4

RHINOSOLID HARDMILL

4 flute long neck corner radius





RE	±0.005

DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015

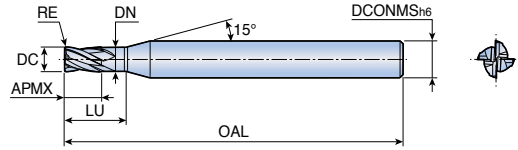
Designation	Feed (mm/tooth)	Dimension (mm)							Grade
		DC	RE	OAL	APMX	LU	DN	DCONMS	TT5505
HSR 4030 010 080	0.021-0.060	3.0	0.1	55	4	8	2.85	6.0	●
4030 010 100	0.021-0.060	3.0	0.1	55	4	10	2.85	6.0	●
4030 010 120	0.018-0.050	3.0	0.1	55	4	12	2.85	6.0	●
4030 010 160	0.018-0.045	3.0	0.1	55	4	16	2.85	6.0	●
4030 010 200	0.015-0.040	3.0	0.1	60	4	20	2.85	6.0	●
4030 010 250	0.015-0.040	3.0	0.1	60	4	25	2.85	6.0	●
4030 020 080	0.021-0.060	3.0	0.2	55	4	8	2.85	6.0	●
4030 020 100	0.021-0.060	3.0	0.2	55	4	10	2.85	6.0	●
4030 020 120	0.018-0.050	3.0	0.2	55	4	12	2.85	6.0	●
4030 020 160	0.018-0.045	3.0	0.2	55	4	16	2.85	6.0	●
4030 020 200	0.015-0.040	3.0	0.2	60	4	20	2.85	6.0	●
4030 020 250	0.015-0.040	3.0	0.2	60	4	25	2.85	6.0	●
4030 030 080	0.021-0.060	3.0	0.3	55	4	8	2.85	6.0	●
4030 030 100	0.021-0.060	3.0	0.3	55	4	10	2.85	6.0	●
4030 030 120	0.018-0.050	3.0	0.3	55	4	12	2.85	6.0	●
4030 030 160	0.018-0.045	3.0	0.3	55	4	16	2.85	6.0	●
4030 030 200	0.015-0.040	3.0	0.3	60	4	20	2.85	6.0	●
4030 030 250	0.015-0.040	3.0	0.3	60	4	25	2.85	6.0	●
4030 050 080	0.021-0.060	3.0	0.5	55	4	8	2.85	6.0	●
4030 050 100	0.021-0.060	3.0	0.5	55	4	10	2.85	6.0	●
4030 050 120	0.018-0.050	3.0	0.5	55	4	12	2.85	6.0	●
4030 050 160	0.018-0.045	3.0	0.5	55	4	16	2.85	6.0	●
4030 050 200	0.015-0.040	3.0	0.5	60	4	20	2.85	6.0	●
4030 050 250	0.015-0.040	3.0	0.5	60	4	25	2.85	6.0	●
4030 100 080	0.021-0.060	3.0	1.0	55	4	8	2.85	6.0	●
4030 100 100	0.021-0.060	3.0	1.0	55	4	10	2.85	6.0	●
4030 100 120	0.018-0.050	3.0	1.0	55	4	12	2.85	6.0	●
4030 100 160	0.018-0.045	3.0	1.0	55	4	16	2.85	6.0	●
4030 100 200	0.015-0.040	3.0	1.0	60	4	20	2.85	6.0	●

●: Standard items

HSR 4

4 flute long neck corner radius





RE ±0.005

DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015

4 | H·A 30° | Cutting Condition F134

Designation		Feed (mm/tooth)	Dimension (mm)							Grade
			DC	RE	OAL	APMX	LU	DN	DCONMS	TT5505
HSR	4040 010 100	0.030-0.075	4.0	0.1	55	6	10	3.9	6.0	●
	4040 010 120	0.030-0.075	4.0	0.1	55	6	12	3.9	6.0	●
	4040 010 160	0.030-0.075	4.0	0.1	55	6	16	3.9	6.0	●
	4040 010 200	0.030-0.070	4.0	0.1	60	6	20	3.9	6.0	●
	4040 010 250	0.030-0.070	4.0	0.1	60	6	25	3.9	6.0	●
	4040 010 300	0.030-0.070	4.0	0.1	70	6	30	3.9	6.0	●
	4040 020 100	0.030-0.075	4.0	0.2	55	6	10	3.9	6.0	●
	4040 020 120	0.030-0.075	4.0	0.2	55	6	12	3.9	6.0	●
	4040 020 160	0.030-0.075	4.0	0.2	55	6	16	3.9	6.0	●
	4040 020 200	0.030-0.070	4.0	0.2	60	6	20	3.9	6.0	●
	4040 020 250	0.030-0.070	4.0	0.2	60	6	25	3.9	6.0	●
	4040 020 300	0.030-0.070	4.0	0.2	70	6	30	3.9	6.0	●
	4040 030 100	0.030-0.075	4.0	0.3	55	6	10	3.9	6.0	●
	4040 030 120	0.030-0.075	4.0	0.3	55	6	12	3.9	6.0	●
	4040 030 160	0.030-0.075	4.0	0.3	55	6	16	3.9	6.0	●
	4040 030 200	0.030-0.070	4.0	0.3	60	6	20	3.9	6.0	●
	4040 030 250	0.030-0.070	4.0	0.3	60	6	25	3.9	6.0	●
	4040 030 300	0.030-0.070	4.0	0.3	70	6	30	3.9	6.0	●
	4040 050 100	0.030-0.075	4.0	0.5	55	6	10	3.9	6.0	●
	4040 050 120	0.030-0.075	4.0	0.5	55	6	12	3.9	6.0	●
	4040 050 160	0.030-0.075	4.0	0.5	55	6	16	3.9	6.0	●
	4040 050 200	0.030-0.070	4.0	0.5	60	6	20	3.9	6.0	●
	4040 050 250	0.030-0.070	4.0	0.5	60	6	25	3.9	6.0	●
	4040 050 300	0.030-0.070	4.0	0.5	70	6	30	3.9	6.0	●
	4040 100 100	0.030-0.075	4.0	1.0	55	6	10	3.9	6.0	●
	4040 100 120	0.030-0.075	4.0	1.0	55	6	12	3.9	6.0	●
	4040 100 160	0.030-0.075	4.0	1.0	55	6	16	3.9	6.0	●
	4040 100 200	0.030-0.070	4.0	1.0	60	6	20	3.9	6.0	●
	4040 100 250	0.030-0.070	4.0	1.0	60	6	25	3.9	6.0	●

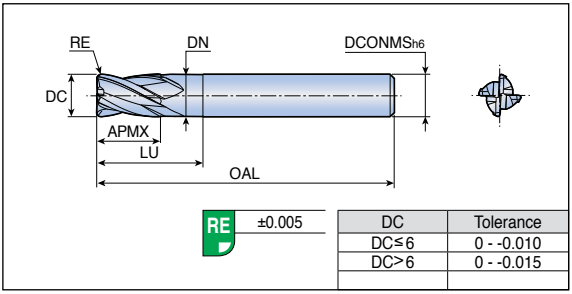
●: Standard items

HSR 4

RHINOSOLID HARDMILL

4 flute long neck corner radius





RE	±0.005

DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015

4 | H·A 30° | Cutting Condition F134

Designation	Feed (mm/tooth)	Dimension (mm)							Grade
		DC	RE	OAL	APMX	LU	DN	DCONMS	TT5505
HSR 4060 020 150	0.067-0.100	6.0	0.2	60	9	15	5.9	6.0	●
4060 030 150	0.067-0.100	6.0	0.3	60	9	15	5.9	6.0	●
4060 050 150	0.067-0.100	6.0	0.5	60	9	15	5.9	6.0	●
4060 100 150	0.067-0.100	6.0	1.0	60	9	15	5.9	6.0	●
4060 150 150	0.067-0.100	6.0	1.5	60	9	15	5.9	6.0	●
4060 200 150	0.067-0.100	6.0	2.0	60	9	15	5.9	6.0	●
4080 020 200	0.090-0.120	8.0	0.2	70	12	20	7.9	8.0	●
4080 030 200	0.090-0.120	8.0	0.3	70	12	20	7.9	8.0	●
4080 050 200	0.090-0.120	8.0	0.5	70	12	20	7.9	8.0	●
4080 100 200	0.090-0.120	8.0	1.0	70	12	20	7.9	8.0	●
4080 150 200	0.090-0.120	8.0	1.5	70	12	20	7.9	8.0	●
4080 200 200	0.090-0.120	8.0	2.0	70	12	20	7.9	8.0	●
4100 020 250	0.117-0.130	10.0	0.2	75	15	25	9.9	10.0	●
4100 030 250	0.117-0.130	10.0	0.3	75	15	25	9.9	10.0	●
4100 050 250	0.117-0.130	10.0	0.5	75	15	25	9.9	10.0	●
4100 100 250	0.117-0.130	10.0	1.0	75	15	25	9.9	10.0	●
4100 150 250	0.117-0.130	10.0	1.5	75	15	25	9.9	10.0	●
4100 200 250	0.117-0.130	10.0	2.0	75	15	25	9.9	10.0	●
4120 030 300	0.126-0.168	12.0	0.3	85	18	30	11.9	12.0	●
4120 050 300	0.126-0.168	12.0	0.5	85	18	30	11.9	12.0	●
4120 100 300	0.126-0.168	12.0	1.0	85	18	30	11.9	12.0	●
4120 150 300	0.126-0.168	12.0	1.5	85	18	30	11.9	12.0	●
4120 200 300	0.126-0.168	12.0	2.0	85	18	30	11.9	12.0	●

●: Standard items

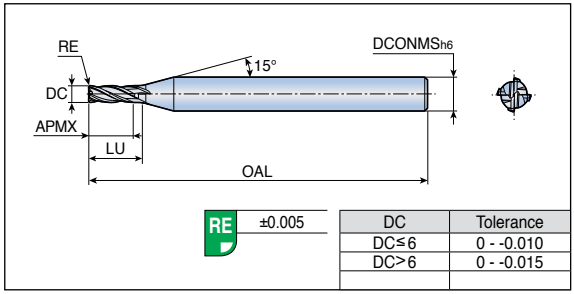
TaeguTec

HSR 4...M

RHINOSOLID HARDMILL

4 flute medium corner radius





RE	±0.005

DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015

4 | H·A 30° | Cutting Condition F134

	Designation	Feed (mm/tooth)	Dimension (mm)						Grade
			DC	RE	OAL	APMX	LU	DCONMS	TT5505
HSR	**4010M 005**	0.009-0.020	1.0	0.05	50	2.0	2.5	6.0	●
	4010M 010	0.009-0.020	1.0	0.1	50	2.0	2.5	6.0	●
	4010M 020	0.009-0.020	1.0	0.2	50	2.0	2.5	6.0	●
	4010M 030	0.009-0.020	1.0	0.3	50	2.0	2.5	6.0	●
	4012M 005	0.010-0.020	1.2	0.05	50	2.5	3	6.0	●
	4012M 010	0.010-0.020	1.2	0.1	50	2.5	3	6.0	●
	4012M 020	0.010-0.020	1.2	0.2	50	2.5	3	6.0	●
	4012M 030	0.010-0.020	1.2	0.3	50	2.5	3	6.0	●
	4015M 005	0.015-0.025	1.5	0.05	50	3.0	3.5	6.0	●
	4015M 010	0.015-0.025	1.5	0.1	50	3.0	3.5	6.0	●
	4015M 020	0.015-0.025	1.5	0.2	50	3.0	3.5	6.0	●
	4020M 010	0.018-0.040	2.0	0.1	50	5.0	6	6.0	●
	4020M 020	0.018-0.040	2.0	0.2	50	5.0	6	6.0	●
	4020M 030	0.018-0.040	2.0	0.3	50	5.0	6	6.0	●
	4020M 050	0.018-0.040	2.0	0.5	50	5.0	6	6.0	●
	4025M 010	0.019-0.045	2.5	0.1	60	7.0	8	6.0	●
	4025M 020	0.019-0.045	2.5	0.2	60	7.0	8	6.0	●
	4025M 030	0.019-0.045	2.5	0.3	60	7.0	8	6.0	●
	4025M 050	0.019-0.045	2.5	0.5	60	7.0	8	6.0	●
	4030M 010	0.021-0.060	3.0	0.1	60	8.0	9.5	6.0	●
	4030M 020	0.021-0.060	3.0	0.2	60	8.0	9.5	6.0	●
	4030M 030	0.021-0.060	3.0	0.3	60	8.0	9.5	6.0	●
	4030M 050	0.021-0.060	3.0	0.5	60	8.0	9.5	6.0	●
	4040M 010	0.030-0.075	4.0	0.1	70	10.0	12	6.0	●
	4040M 020	0.030-0.075	4.0	0.2	70	10.0	12	6.0	●
	4040M 030	0.030-0.075	4.0	0.3	70	10.0	12	6.0	●
	4040M 050	0.030-0.075	4.0	0.5	70	10.0	12	6.0	●
	4040M 100	0.030-0.075	4.0	1.0	70	10.0	12	6.0	●

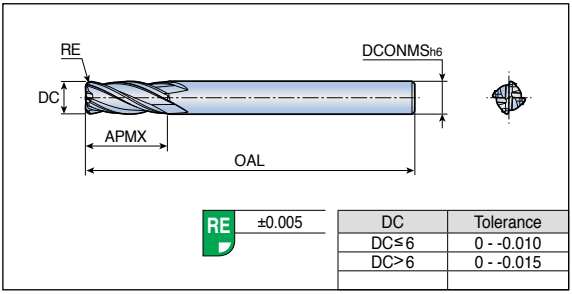
●: Standard items

HSR 4...M

RHINOSOLID HARDMILL

4 flute medium corner radius





RE	±0.005

DC	Tolerance
DC≤6	0 - -0.010
DC>6	0 - -0.015



Designation	Feed (mm/tooth)	Dimension (mm)					Grade
		DC	RE	OAL	APMX	DCONMS	TT5505
HSR 4060M 020	0.067-0.100	6.0	0.2	90	15	6.0	●
4060M 030	0.067-0.100	6.0	0.3	90	15	6.0	●
4060M 050	0.067-0.100	6.0	0.5	90	15	6.0	●
4060M 100	0.067-0.100	6.0	1.0	90	15	6.0	●
4060M 150	0.067-0.100	6.0	1.5	90	15	6.0	●
4060M 200	0.067-0.100	6.0	2.0	90	15	6.0	●
4080M 020	0.090-0.120	8.0	0.2	100	20	8.0	●
4080M 030	0.090-0.120	8.0	0.3	100	20	8.0	●
4080M 050	0.090-0.120	8.0	0.5	100	20	8.0	●
4080M 100	0.090-0.120	8.0	1.0	100	20	8.0	●
4080M 150	0.090-0.120	8.0	1.5	100	20	8.0	●
4080M 200	0.090-0.120	8.0	2.0	100	20	8.0	●
4100M 020	0.117-0.130	10.0	0.2	100	25	10.0	●
4100M 030	0.117-0.130	10.0	0.3	100	25	10.0	●
4100M 050	0.117-0.130	10.0	0.5	100	25	10.0	●
4100M 100	0.117-0.130	10.0	1.0	100	25	10.0	●
4100M 150	0.117-0.130	10.0	1.5	100	25	10.0	●
4100M 200	0.117-0.130	10.0	2.0	100	25	10.0	●
4120M 030	0.126-0.168	12.0	0.3	110	30	12.0	●
4120M 050	0.126-0.168	12.0	0.5	110	30	12.0	●
4120M 100	0.126-0.168	12.0	1.0	110	30	12.0	●
4120M 150	0.126-0.168	12.0	1.5	110	30	12.0	●
4120M 200	0.126-0.168	12.0	2.0	110	30	12.0	●

●: Standard items

TaeguTec

HSR 6

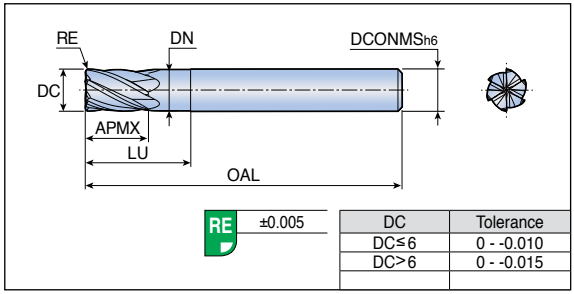
RHINOSOLID HARDMILL

6 flute long neck corner radius



• Finishing





Designation	Feed (mm/tooth)	Dimension (mm)							Grade
		DC	RE	OAL	APMX	LU	DN	DCONMS	TT5505
HSR 6060 050 150	0.038-0.050	6.0	0.5	60	9	15	5.8	6.0	●
6060 100 150	0.038-0.050	6.0	1.0	60	9	15	5.8	6.0	●
6080 050 200	0.045-0.060	8.0	0.5	70	12	20	7.8	8.0	●
6080 100 200	0.045-0.060	8.0	1.0	70	12	20	7.8	8.0	●
6100 050 250	0.045-0.060	10.0	0.5	75	15	25	9.8	10.0	●
6100 100 250	0.045-0.060	10.0	1.0	75	15	25	9.8	10.0	●
6120 050 300	0.053-0.070	12.0	0.5	85	18	30	11.6	12.0	●
6120 100 300	0.053-0.070	12.0	1.0	85	18	30	11.6	12.0	●

●: Standard items

HSR 6...M

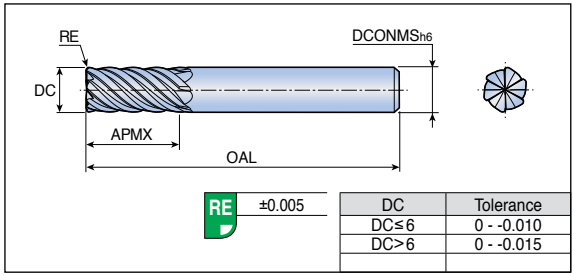
RHINOSOLID HARDMILL

6 flute medium corner radius



• Finishing





Designation	Feed (mm/tooth)	Dimension (mm)					Grade
		DC	RE	OAL	APMX	DCONMS	TT5505
HSR 6060M 050	0.038-0.050	6.0	0.5	60	15	6.0	●
6060M 100	0.038-0.050	6.0	1.0	60	15	6.0	●
6080M 050	0.045-0.060	8.0	0.5	65	20	8.0	●
6080M 100	0.045-0.060	8.0	1.0	65	20	8.0	●
6100M 050	0.045-0.060	10.0	0.5	70	22	10.0	●
6100M 100	0.045-0.060	10.0	1.0	70	22	10.0	●
6100M 150	0.045-0.060	10.0	1.5	70	22	10.0	●
6120M 050	0.053-0.070	12.0	0.5	80	26	12.0	●
6120M 100	0.053-0.070	12.0	1.0	80	26	12.0	●
6120M 150	0.053-0.070	12.0	1.5	80	26	12.0	●

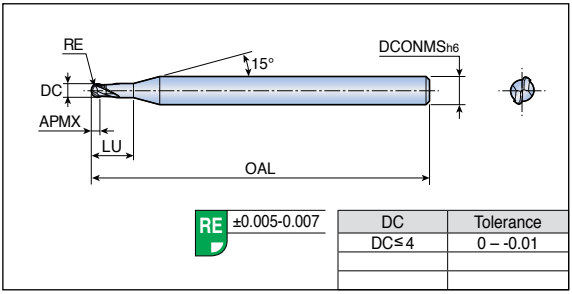
●: Standard items

HSB 2CBN

HARDMILL

2 flute CBN ball





RE ±0.005-0.007

DC	Tolerance
DC≤4	0 – -0.01

2 | H·A 30° | Cutting Condition F134

Designation	Feed (mm/tooth)	Dimension (mm)						Grade
		DC	RE	OAL	APMX	LU	DCONMS	TB7015
HSB 2CBN 2004-1.5	0.007-0.009	0.4	0.2	48	0.3	1.5	4	●
2004-6.0	0.007-0.009	0.4	0.2	48	0.3	6.0	4	●
2006-1.5	0.013-0.014	0.6	0.3	48	0.5	1.5	4	●
2008-4.0	0.013-0.018	0.8	0.4	48	0.5	4.0	4	●
2010-2.5	0.022-0.028	1.0	0.5	48	0.7	2.5	4	●
2010-4.0	0.022-0.028	1.0	0.5	48	0.7	4.0	4	●
2010-6.0	0.022-0.028	1.0	0.5	48	0.7	6.0	4	●
2015-6.0	0.023-0.028	1.5	0.75	48	1.0	6.0	4	●
2020-4.0	0.032-0.040	2.0	1.0	50	1.2	4.0	4	●
2040-8.0	0.035-0.040	4.0	2.0	66	2.4	8.0	6	●

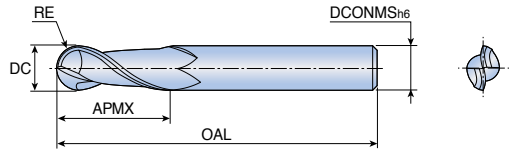
●: Standard items

TaeguTec

SBE 2...S

2 flute short ball





RE	
DC≤6	±0.005
DC>6	±0.010

DC	Tolerance
DC≤6	0 - -0.012
DC>6	0 - -0.015



Designation	Dimension (mm)					Grade
	DC	RE	OAL	APMX	DCONMS	TT5515
SBE 2020S	2	1.0	50	3	6	●
2030S	3	1.5	50	4	6	●
2040S	4	2.0	54	5	6	●
2050S	5	2.5	54	6	6	●
2060S	6	3.0	54	7	6	●
2080S	8	4.0	58	9	8	●
2100S	10	5.0	66	11	10	●
2120S	12	6.0	73	12	12	●
2160S	16	8.0	82	16	16	●
2200S	20	10.0	92	20	20	●

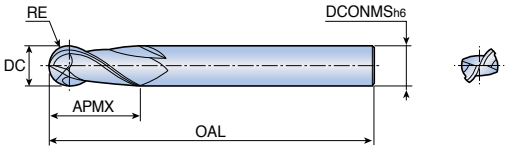
• Weldon shank is available on request (Ordering example: SBEW 2...S)

●: Standard items

SBE 2

2 flute medium ball





RE	
DC≤6	±0.005
DC>6	±0.010

DC	Tolerance
DC≤6	0 - -0.012
DC>6	0 - -0.015

2 | H·A 30° | Cutting Condition F134

Designation	Dimension (mm)					Grade
	DC	RE	OAL	APMX	DCONMS	UF10N
SBE 2010	1.0	0.5	50	1.5	4	●
2010-6	1.0	0.5	50	1.5	6	●
2015	1.5	0.75	50	2.3	4	●
2020	2.0	1.0	50	3.0	4	●
2020-6	2.0	1.0	50	3.0	6	●
2025	2.5	1.25	50	3.8	4	●
2025-6	2.5	1.25	50	3.8	6	●
2030	3.0	1.5	70	8.0	6	●
2040	4.0	2.0	70	8.0	6	●
2050	5.0	2.5	80	12.0	6	●
2060	6.0	3.0	80	12.0	6	●
2070	7.0	3.5	90	15.0	8	●
2080	8.0	4.0	90	15.0	8	●
2090	9.0	4.5	100	20.0	10	●
2100	10.0	5.0	100	20.0	10	●
2120	12.0	6.0	110	25.0	12	●
2140	14.0	7.0	120	30.0	12	●
2160	16.0	8.0	125	35.0	16	●
2180	18.0	9.0	150	40.0	20	●
2200	20.0	10.0	150	40.0	20	●

• Weldon shank is available on request (Ordering example: SBEW 2...)

●: Standard items

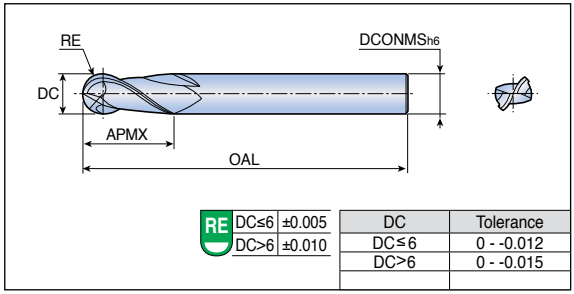
TaeguTec Member IMC Group

SBE 2...T

RHINOSOLID APEXMILL

2 flute medium ball





RE		
	DC≤6	±0.005
	DC>6	±0.010

DC	Tolerance
DC≤6	0 - -0.012
DC>6	0 - -0.015

2 | H·A 30° | Cutting Condition F134

Designation		Dimension (mm)					Grade
		DC	RE	OAL	APMX	DCONMS	TT5515
SBE	**2010T**	1.0	0.5	50	1.5	4	●
	2010T-6	1.0	0.5	50	1.5	6	●
	2012T	1.2	0.6	50	1.8	4	●
	2015T	1.5	0.75	50	2.3	4	●
	2015T-5X70	1.5	0.75	70	5.0	6	●
	2015T-6	1.5	0.75	50	2.3	6	●
	2016T	1.6	0.8	50	2.4	4	●
	2020T	2.0	1.0	50	3.0	4	●
	2020T-6	2.0	1.0	50	3.0	6	●
	2020T-7X70	2.0	1.0	70	7.0	6	●
	2025T	2.5	1.25	50	3.8	4	●
	2025T-6	2.5	1.25	50	3.8	6	●
	2030T	3.0	1.5	70	8.0	6	●
	2030T-10X70	3.0	1.5	70	10.0	6	●
	2035T	3.5	1.75	70	8.0	6	●
	2040T	4.0	2.0	70	8.0	6	●
	2040T-12X70	4.0	2.0	70	12.0	6	●
	2045T	4.5	2.25	80	8.0	6	●
	2050T	5.0	2.5	80	12.0	6	●
	2050T-15X80	5.0	2.5	80	15.0	6	●
	2060T	6.0	3.0	80	12.0	6	●
	2060T-15X80	6.0	3.0	80	15.0	6	●
	2065T	6.5	3.25	90	12.0	8	●
	2070T	7.0	3.5	90	15.0	8	●
	2080T	8.0	4.0	90	15.0	8	●
	2080T-20X90	8.0	4.0	90	20.0	8	●
	2090T	9.0	4.5	100	20.0	10	●
	2100T	10.0	5.0	100	20.0	10	●
	2100T-25X100	10.0	5.0	100	25.0	10	●
	2110T	11.0	5.5	110	25.0	12	●
	2120T	12.0	6.0	110	25.0	12	●
	2120T-30X100	12.0	6.0	100	30.0	12	●
	2140T	14.0	7.0	120	30.0	12	●
	2150T	15.0	7.5	125	35.0	16	●
	2160T	16.0	8.0	125	35.0	16	●
	2180T	18.0	9.0	150	40.0	20	●
	2200T	20.0	10.0	150	40.0	20	●

• Weldon shank is available on request (Ordering example: SBEW 2...T)

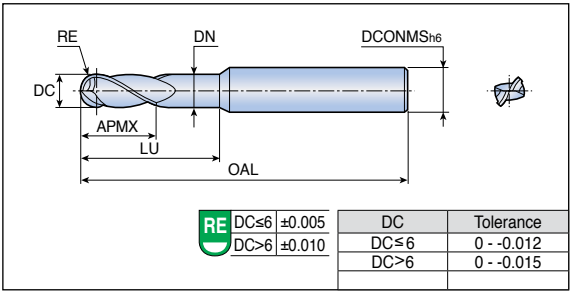
●: Standard items

SBE 2...L

RHINOSOLID APEXMILL

2 flute long ball





RE		
	DC≤6	±0.005
	DC>6	±0.010

DC	Tolerance
DC≤6	0 - -0.012
DC>6	0 - -0.015

2 | H·A 30° | Cutting Condition F134

Designation	Dimension (mm)							Grades
	DC	RE	OAL	APMX	LU	DN	DCONMS	UF10N
SBE 2030L	3	1.5	100	4	35	2.85	6	●
2040L	4	2.0	100	6	35	3.85	6	●
2060L	6	3.0	115	8	45	5.8	8	●
2060L-6D	6	3.0	115	8	45	5.8	6	●
2070L	7	3.5	125	10	45	6.8	10	●
2080L	8	4.0	125	12	55	7.8	10	●
2090L	9	4.5	140	15	65	8.8	10	●
2100L	10	5.0	140	15	65	9.8	10	●
2120L	12	6.0	150	18	75	11.8	12	●
2160L	16	8.0	155	30	75	15.6	16	●

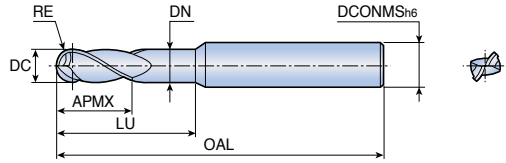
●: Standard items

SBE 2...LT

RHINOSOLID APEXMILL

2 flute long ball





RE		
	DC≤6	±0.005
	DC>6	±0.010

DC	Tolerance
DC≤6	0 - -0.012
DC>6	0 - -0.015



Designation		Dimension (mm)							Grades
		DC	RE	OAL	APMX	LU	DN	DCONMS	TT5515
SBE	**2020LT**	2	1.0	100	4	20	1.85	6	●
	2030LT	3	1.5	100	4	35	2.85	6	●
	2040LT	4	2.0	100	6	35	3.85	6	●
	2050LT	5	2.5	115	7	40	4.8	8	●
	2060LT	6	3.0	115	8	45	5.8	8	●
	2060LT-6D	6	3.0	115	8	45	5.8	6	●
	2060LT-6D WU	6	3.0	115	8	-	-	6	●
	2070LT	7	3.5	125	10	45	6.8	10	●
	2080LT	8	4.0	125	12	55	7.8	10	●
	2080LT-8D	8	4.0	125	12	55	7.8	8	●
	2080LT-8D WU	8	4.0	125	12	-	-	8	●
	2090LT	9	4.5	140	15	65	8.8	10	●
	2100LT	10	5.0	140	15	65	9.8	10	●
	2100LT-WU	10	5.0	140	15	-	-	10	●
	2120LT	12	6.0	150	18	75	11.8	12	●
	2140LT	14	7.0	155	23	75	13.6	16	●
	2160LT	16	8.0	155	30	75	15.6	16	●
	2160LT-WU	16	8.0	155	30	-	-	16	●

• **WU**: Without under cut

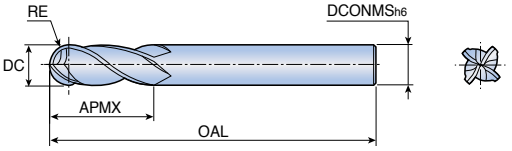
●: Standard items

ADVANCE MACHINING
TaeguTec Industry 4.0

SBE 4

4 flute medium ball





RE		
DC≤6	±0.005	
DC>6	±0.010	

DC	Tolerance
All	0 - -0.020

4 | H·A 30° | Cutting Condition F134

Designation	Dimension (mm)					Grade
	DC	RE	OAL	APMX	DCONMS	UF10N
SBE 4060	6	3	80	12	6	●
4100	10	5	100	20	10	●
4120	12	6	110	25	12	●
4160	16	8	125	35	16	●
4200	20	10	150	40	20	●

• Weldon shank is available on request (Ordering example: SBEW 4...)

●: Standard items

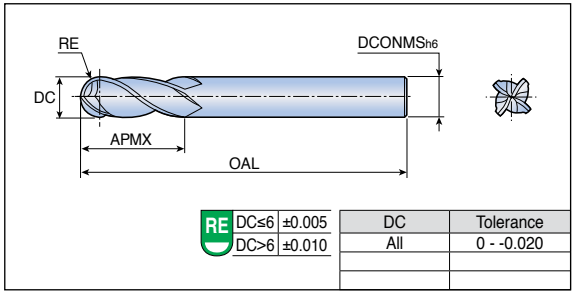
TaeguTec Member IMC Group

SBE 4...T

RHINOSOLID APEXMILL

4 flute medium ball





RE		
DC≤6	±0.005	
DC>6	±0.010	

DC	Tolerance
All	0 - -0.020

4 | H·A 30° | Cutting Condition F134

Designation	Dimension (mm)					Grade
	DC	RE	OAL	APMX	DCONMS	TT5515
SBE 4010T-6	1.0	0.5	50	2.5	6	●
4015T	1.5	0.75	50	4.0	4	●
4020T	2.0	1.0	50	5.0	6	●
4030T	3.0	1.5	57	8.0	6	●
4040T	4.0	2.0	70	8.0	6	●
4050T	5.0	2.5	80	12.0	6	●
4060T	6.0	3.0	80	12.0	6	●
4070T	7.0	3.5	90	15.0	8	●
4080T	8.0	4.0	90	15.0	8	●
4090T	9.0	4.5	100	20.0	10	●
4100T	10.0	5.0	100	20.0	10	●
4120T	12.0	6.0	110	25.0	12	●
4160T	16.0	8.0	125	35.0	16	●
4180T	18.0	9.0	150	40.0	20	●
4200T	20.0	10.0	150	40.0	20	●

• Weldon shank is available on request (Ordering example: SBEW 4...T)

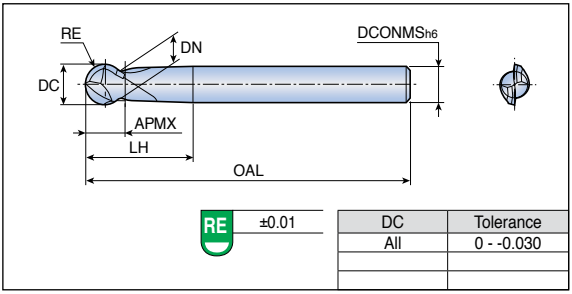
●: Standard items

BES 2...T

RHINOSOLID APEXMILL

2 flute spherical ball





RE	±0.01

DC	Tolerance
All	0 - -0.030

Designation	Dimension (mm)							Grade
	DC	RE	OAL	APMX	LH	DN	DCONMS	TT5515
BES 2030T	3	1.5	80	3.3	28.5	2.52	6	●
2040T	4	2.0	80	4.1	28.5	3.35	6	●
2050T	5	2.5	80	5.4	38.0	4.19	6	●
2060T	6	3.0	100	6.1	28.0	5.03	6	●
2080T	8	4.0	100	8.2	33.0	6.71	8	●
2100T	10	5.0	100	9.7	40.0	8.39	10	●
2120T	12	6.0	110	12.3	49.0	10.06	12	●
2160T	16	8.0	155	15.4	58.0	13.42	16	●

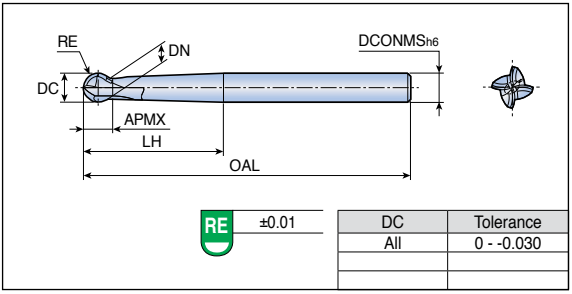
●: Standard items

BES 4...T

RHINOSOLID APEXMILL

4 flute spherical ball





RE	±0.01

DC	Tolerance
All	0 - -0.030

Designation	Dimension (mm)							Grade
	DC	RE	OAL	APMX	LH	DN	DCONMS	TT5515
BES 4030T	3	1.5	80	3.3	28.5	2.52	6	●
4040T	4	2.0	80	4.1	28.5	3.35	6	●
4050T	5	2.5	80	5.4	38.0	4.19	6	●
4060T	6	3.0	100	6.1	28.0	5.03	6	●
4080T	8	4.0	100	8.2	33.0	6.71	8	●
4100T	10	5.0	100	9.7	40.0	8.39	10	●
4120T	12	6.0	110	12.3	49.0	10.06	12	●

●: Standard items

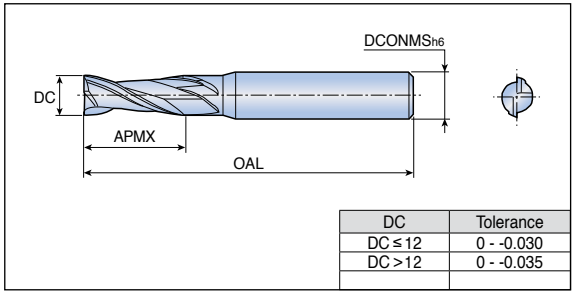
TaeguTec

TSE 2...M

RHINOSOLID APEXMILL

2 flute medium flat





DC	Tolerance
DC ≤ 12	0 - -0.030
DC > 12	0 - -0.035



Designation	Feed (mm/tooth)	Dimension (mm)				Grades		
		DC	OAL	APMX	DCONMS	TT5515	TT5525	UF10
TSE 2010M-4	0.008-0.030	1.0	40	3	4	●	●	●
2010M	0.008-0.030	1.0	42	3	6	●	●	●
2012M	0.008-0.030	1.2	42	3	6	●		
2015M-4	0.008-0.030	1.5	40	4	4	●	●	●
2015M	0.008-0.030	1.5	42	4	6	●	●	●
2020M-4	0.010-0.030	2.0	40	6	4	●	●	●
2020M	0.010-0.030	2.0	42	6	6	●	●	●
2025M-4	0.010-0.030	2.5	40	8	4	●	●	●
2025M	0.010-0.030	2.5	42	8	6	●	●	●
2030M	0.010-0.030	3.0	57	10	6	●	●	●
2035M-4	0.010-0.030	3.5	50	12	4	●		●
2035M	0.010-0.030	3.5	47	10	6	●	●	●
2040M-4	0.010-0.050	4.0	50	12	4	●	●	●
2040M	0.010-0.050	4.0	57	12	6	●	●	●
2045M	0.010-0.050	4.5	57	14	6	●	●	●
2050M-5	0.015-0.060	5.0	50	14	5	●	●	●
2050M	0.015-0.060	5.0	57	14	6	●	●	●
2055M	0.015-0.060	5.5	57	16	6	●	●	
2060M	0.020-0.060	6.0	57	16	6	●	●	●
2065M-7	0.020-0.060	6.5	60	20	7		●	
2065M	0.020-0.060	6.5	60	20	8	●	●	●
2070M	0.030-0.070	7.0	60	20	8	●	●	●
2075M	0.030-0.070	7.5	63	20	8	●	●	
2080M	0.030-0.100	8.0	63	20	8	●	●	●
2085M	0.030-0.100	8.5	72	22	10	●		●
2090M	0.030-0.100	9.0	68	25	10	●	●	●
2095M	0.030-0.100	9.5	72	24	10	●	●	
2100M(25X68)	0.030-0.120	10.0	68	25	10	●	●	
2100M	0.030-0.120	10.0	72	22	10	●	●	●
2105M	0.030-0.120	10.5	76	26	12	●	●	
2110M	0.030-0.120	11.0	76	30	12	●	●	●
2115M	0.030-0.120	11.5	83	30	12	●		
2120M(30X76)	0.030-0.120	12.0	76	30	12	●		
2120M	0.030-0.120	12.0	83	25	12	●	●	●
2130M	0.030-0.132	13.0	85	35	14	●	●	●

• Weldon shank is available on request (Ordering example: TSEW 2...M)

●: Standard items

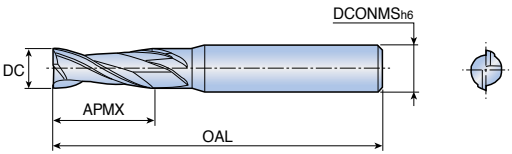
ADVANCE MACHINING
TaeguTec Industry 4.0

TSE 2...M

RHINOSOLID APEXMILL

2 flute medium flat





DC	Tolerance
DC ≤ 12	0 - -0.030
DC > 12	0 - -0.035

2 | H·A 30° | Cutting Condition F134

Designation		Feed (mm/tooth)	Dimension (mm)				Grades		
			DC	OAL	APMX	DCONMS	TT5515	TT5525	UF10
TSE	**2140M-14**	0.030-0.132	14.0	83	25	14	●	●	●
	2140M	0.030-0.132	14.0	85	35	16		●	
	2150M	0.040-0.140	15.0	92	32	16	●	●	●
	2160M	0.040-0.140	16.0	92	32	16	●	●	●
	2180M-18	0.040-0.140	18.0	92	32	18	●	●	●
	2180M(45X110)	0.040-0.140	18.0	110	45	20	●		
	2200M	0.040-0.140	20.0	104	38	20	●	●	●
	2250M	0.050-0.146	25.0	120	50	25	●	●	

• Weldon shank is available on request (Ordering example: TSEW 2...M)

●: Standard items

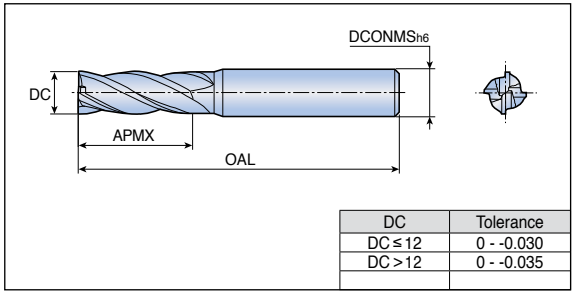
TaeguTec

TSE 4...M

RHINOSOLID APEXMILL

4 flute medium flat





DC	Tolerance
DC ≤ 12	0 - -0.030
DC > 12	0 - -0.035

4 | H·A 30° | Cutting Condition F134

Designation	Feed (mm/tooth)	Dimension (mm)				Grades		
		DC	OAL	APMX	DCONMS	TT5515	TT5525	UF10
TSE 4010M	0.005-0.010	1.0	42	2.5	6	●	●	
4015M	0.005-0.012	1.5	42	4	6	●	●	
4020M	0.008-0.017	2.0	42	6	6	●	●	●
4025M-4	0.008-0.017	2.5	40	8	4	●	●	●
4025M	0.008-0.017	2.5	42	8	6	●	●	●
4030M	0.009-0.020	3.0	57	10	6	●	●	●
4035M-4	0.010-0.028	3.5	50	12	4	●		●
4035M	0.010-0.028	3.5	47	10	6	●	●	●
4040M-4	0.010-0.042	4.0	50	12	4	●	●	●
4040M	0.010-0.042	4.0	57	12	6	●	●	●
4045M	0.010-0.042	4.5	57	12	6	●		
4050M	0.020-0.059	5.0	57	14	6	●	●	●
4055M	0.020-0.059	5.5	57	14	6	●	●	
4060M	0.020-0.075	6.0	57	16	6	●	●	●
4065M	0.020-0.075	6.5	60	20	8	●	●	
4070M	0.020-0.075	7.0	60	20	8	●	●	●
4075M	0.020-0.075	7.5	60	20	8	●	●	
4080M	0.030-0.100	8.0	63	20	8	●	●	●
4085M	0.030-0.100	8.5	68	25	10	●	●	
4090M	0.030-0.100	9.0	68	25	10	●	●	●
4095M	0.030-0.100	9.5	68	25	10	●	●	
4100M(25X68)	0.030-0.120	10.0	68	25	10	●	●	●
4100M	0.030-0.120	10.0	72	22	10	●	●	●
4105M	0.030-0.120	10.5	76	30	12	●	●	
4110M	0.030-0.120	11.0	76	30	12	●	●	●
4115M	0.030-0.120	11.5	76	30	12	●	●	
4120M(30X76)	0.030-0.136	12.0	76	30	12	●	●	
4120M	0.030-0.136	12.0	83	25	12	●	●	●
4130M	0.030-0.136	13.0	85	35	14	●	●	●
4140M-14	0.030-0.136	14.0	83	25	14	●	●	●
4140M	0.030-0.136	14.0	85	35	16		●	
4140M(35X85)	0.030-0.136	14.0	85	35	16	●		
4150M	0.040-0.140	15.0	92	32	16	●	●	●
4160M(40X90)	0.040-0.146	16.0	90	40	16	●	●	
4160M	0.040-0.146	16.0	92	32	16	●	●	●

• Weldon shank is available on request (Ordering example: TSEW 4...M)

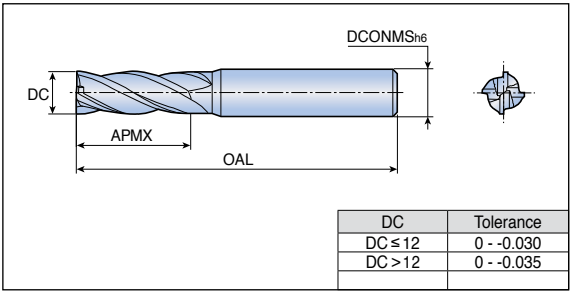
●: Standard items

TSE 4...M

RHINOSOLID APEXMILL

4 flute medium flat





DC	Tolerance
DC ≤ 12	0 - -0.030
DC > 12	0 - -0.035



Designation	Feed (mm/tooth)	Dimension (mm)				Grades		
		DC	OAL	APMX	DCONMS	TT5515	TT5525	UF10
TSE 4170M(45X110)	0.050-0.146	17.0	110	45	20	●		
4180M-18	0.050-0.146	18.0	92	32	18	●	●	
4180M(45X110)	0.050-0.146	18.0	110	45	20	●	●	
4200M	0.050-0.146	20.0	104	38	20	●	●	●
4200M(45X110)	0.050-0.146	20.0	110	45	20	●	●	
4250M	0.050-0.146	25.0	140	65	25	●	●	●

• Weldon shank is available on request (Ordering example: TSEW 4...M)

●: Standard items

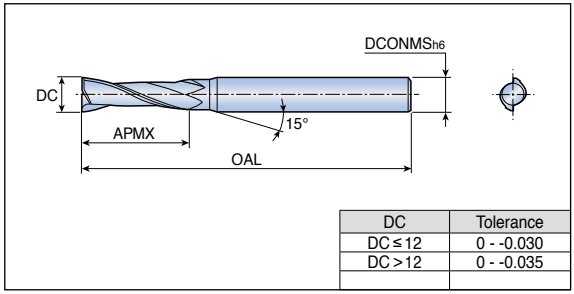
TaeguTec

HES 2...LT

RHINOSOLID APEXMILL

2 flute long flat





DC	Tolerance
DC ≤ 12	0 - -0.030
DC > 12	0 - -0.035



Designation	Feed (mm/tooth)	Dimension (mm)				Grade
		DC	OAL	APMX	DCONMS	TT5525
HES 2030LT(10x70)	0.010-0.040	3	70	10	6	●
2040LT(12x70)	0.020-0.050	4	70	12	6	●
2050LT(15x80)	0.020-0.060	5	80	15	6	●
2060LT(15x80)	0.030-0.076	6	80	15	6	●
2080LT(20x90)	0.030-0.097	8	90	20	8	●
2100LT(25x100)	0.030-0.107	10	100	25	10	●
2120LT(30x110)	0.040-0.108	12	110	30	12	●
2140LT	0.040-0.120	14	125	35	16	●
2160LT	0.040-0.130	16	125	40	16	●
2180LT	0.050-0.130	18	150	45	20	●
2200LT	0.050-0.130	20	150	45	20	●

●: Standard items

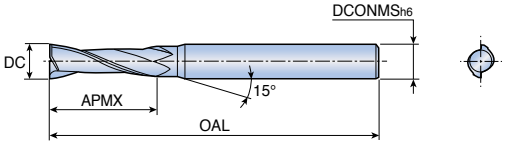
ADVANCE MACHINING
TaeguTec Industry 4.0

HES 2...XLT

RHINOSOLID APEXMILL

2 flute extra long flat





DC	Tolerance
DC ≤ 12	0 - -0.030
DC > 12	0 - -0.035

2 | H·A 30° | Cutting Condition F134

Designation	Feed (mm/tooth)	Dimension (mm)				Grades	
		DC	OAL	APMX	DCONMS	TT5515	TT5525
HES 2030XLT(20x70)	0.010-0.040	3	70	20	6	●	
2040XLT(20x70)	0.020-0.050	4	70	20	6	●	●
2050XLT(25x80)	0.020-0.060	5	80	25	6	●	●
2060XLT(25x80)	0.030-0.076	6	80	25	6	●	●
2080XLT(35x90)	0.030-0.097	8	90	35	8	●	●
2100XLT(45x100)	0.030-0.107	10	100	45	10	●	●
2120XLT(55x110)	0.040-0.108	12	110	55	12	●	●
2140XLT	0.040-0.120	14	125	60	16	●	●
2160XLT	0.040-0.130	16	125	70	16	●	●
2180XLT	0.050-0.130	18	150	75	20	●	●
2200XLT	0.050-0.130	20	150	75	20	●	●

●: Standard items

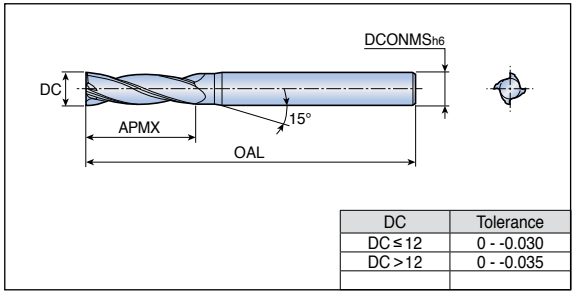
TaeguTec

HES 4...LT

RHINOSOLID APEXMILL

4 flute long flat





DC	Tolerance
DC ≤ 12	0 - -0.030
DC > 12	0 - -0.035

4 | H·A 30° | Cutting Condition F134

Designation	Feed (mm/tooth)	Dimension (mm)				Grade
		DC	OAL	APMX	DCONMS	TT5525
HES 4030LT(10x70)	0.01-0.04	3	70	10	6	●
4040LT(12x70)	0.02-0.05	4	70	12	6	●
4050LT(15x80)	0.02-0.06	5	80	15	6	●
4060LT(15x80)	0.03-0.07	6	80	15	6	●
4080LT(20x90)	0.03-0.09	8	90	20	8	●
4100LT(25x100)	0.03-0.10	10	100	25	10	●
4120LT(30x110)	0.04-0.11	12	110	30	12	●
4140LT	0.04-0.12	14	125	35	16	●
4160LT	0.05-0.13	16	125	40	16	●
4180LT	0.05-0.13	18	150	45	20	●
4200LT	0.05-0.13	20	150	45	20	●

●: Standard items

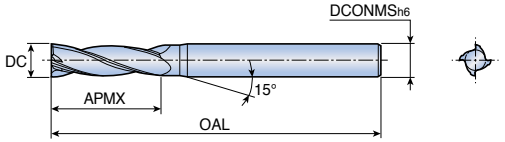
ADVANCE MACHINING TaeguTec Industry 4.0

HES 4...XLT

RHINOSOLID APEXMILL

4 flute extra long flat





DC	Tolerance
DC ≤ 12	0 - -0.030
DC > 12	0 - -0.035



Designation	Feed (mm/tooth)	Dimension (mm)				Grades	
		DC	OAL	APMX	DCONMS	TT5515	TT5525
HES 4030XLT(20x70)	0.01-0.04	3	70	20	6	●	●
4040XLT(20x70)	0.02-0.05	4	70	20	6	●	●
4050XLT(25x80)	0.02-0.06	5	80	25	6	●	●
4060XLT(25x80)	0.03-0.07	6	80	25	6	●	●
4080XLT(35x90)	0.03-0.09	8	90	35	8	●	●
4100XLT(45x100)	0.03-0.10	10	100	45	10	●	●
4120XLT(55x110)	0.04-0.11	12	110	55	12	●	●
4140XLT	0.04-0.12	14	125	60	16	●	●
4160XLT	0.05-0.13	16	125	70	16	●	●
4180XLT	0.05-0.13	18	150	75	20	●	●
4200XLT	0.05-0.13	20	150	75	20	●	●

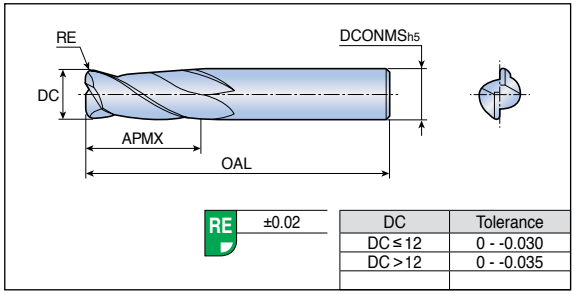
●: Standard items

HES 2...T-R

RHINOSOLID APEXMILL

2 flute medium corner radius





RE ±0.02

DC	Tolerance
DC ≤ 12	0 - -0.030
DC > 12	0 - -0.035

2 | H·A 30° | Cutting Condition F134

Designation	Feed (mm/tooth)	Dimension (mm)					Grades	
		DC	RE	OAL	APMX	DCONMS	TT5515	TT5525
HES 2030T-R0.5	0.010-0.030	3	0.5	47	10	6	●	●
2040T-R0.5	0.010-0.050	4	0.5	47	12	6	●	●
2050T-R0.5	0.020-0.060	5	0.5	52	15	6	●	●
2060T-R0.5	0.020-0.060	6	0.5	52	15	6	●	●
2060T-R1.0	0.020-0.060	6	1.0	52	15	6	●	●
2080T-R0.5	0.030-0.100	8	0.5	60	20	8	●	●
2080T-R1.0	0.030-0.100	8	1.0	60	20	8	●	●
2080T-R1.5	0.030-0.100	8	1.5	60	20	8	●	●
2080T-R2.0	0.030-0.100	8	2.0	60	20	8	●	
2100T-R0.5	0.030-0.120	10	0.5	68	25	10	●	●
2100T-R1.0	0.030-0.120	10	1.0	68	25	10	●	
2100T-R1.5	0.030-0.120	10	1.5	68	25	10	●	
2100T-R2.0	0.030-0.120	10	2.0	68	25	10	●	
2100T-R2.5	0.030-0.120	10	2.5	68	25	10	●	●
2100T-R3.0	0.030-0.120	10	3.0	68	25	10	●	
2120T-R0.5	0.030-0.120	12	0.5	76	30	12	●	
2120T-R1.0	0.030-0.120	12	1.0	76	30	12	●	
2120T-R1.5	0.030-0.120	12	1.5	76	30	12	●	●
2120T-R2.0	0.030-0.120	12	2.0	76	30	12	●	
2120T-R2.5	0.030-0.120	12	2.5	76	30	12	●	
2120T-R3.0	0.030-0.120	12	3.0	76	30	12	●	●
2160T-R0.5	0.040-0.142	16	0.5	90	40	16	●	
2160T-R1.0	0.040-0.142	16	1.0	90	40	16	●	●
2160T-R1.5	0.040-0.142	16	1.5	90	40	16	●	●
2160T-R2.0	0.040-0.142	16	2.0	90	40	16	●	
2160T-R3.0	0.040-0.142	16	3.0	90	40	16	●	●
2200T-R0.5	0.040-0.142	20	0.5	110	45	20	●	
2200T-R1.0	0.040-0.142	20	1.0	110	45	20	●	
2200T-R1.5	0.040-0.142	20	1.5	110	45	20	●	
2200T-R2.0	0.040-0.142	20	2.0	110	45	20	●	●
2200T-R3.0	0.040-0.142	20	3.0	110	45	20	●	●

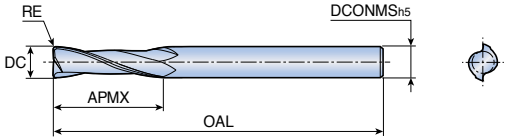
●: Standard items

HES 2...LT-R

RHINOSOLID APEXMILL

2 flute long corner radius





2 | H·A 30° | Cutting Condition F134

RE ±0.02

DC	Tolerance
DC ≤ 12	0 - -0.030
DC > 12	0 - -0.035

Designation	Feed (mm/tooth)	Dimension (mm)					Grades	
		DC	RE	OAL	APMX	DCONMS	TT5515	TT5525
HES 2030LT-R0.5	0.010-0.040	3	0.5	70	10	6		●
2040LT-R0.5	0.020-0.050	4	0.5	70	12	6	●	●
2050LT-R0.5	0.020-0.060	5	0.5	80	15	6	●	●
2060LT-R0.5	0.030-0.076	6	0.5	80	15	6	●	●
2060LT-R1.0	0.030-0.076	6	1.0	80	15	6	●	
2080LT-R0.5	0.030-0.097	8	0.5	90	20	8	●	●
2080LT-R1.0	0.030-0.097	8	1.0	90	20	8	●	
2100LT-R0.5	0.030-0.107	10	0.5	100	25	10	●	
2100LT-R1.0	0.030-0.107	10	1.0	100	25	10	●	●
2120LT-R0.5	0.040-0.108	12	0.5	110	30	12	●	
2120LT-R1.0	0.040-0.108	12	1.0	110	30	12	●	●

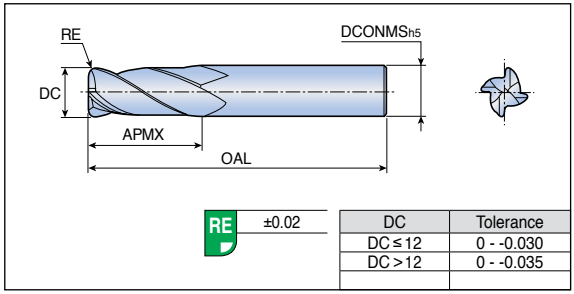
●: Standard items

TaeguTec

HES 4...T-R

4 flute medium corner radius





DC	Tolerance
DC ≤ 12	0 - -0.030
DC > 12	0 - -0.035

4 | H·A 30° | Cutting Condition F134

Designation	Feed (mm/tooth)	Dimension (mm)					Grades	
		DC	RE	OAL	APMX	DCONMS	TT5515	TT5525
HES 4030T-R0.3	0.01-0.04	3	0.3	47	10	6	●	●
4040T-R0.3	0.02-0.05	4	0.3	47	12	6	●	●
4050T-R0.3	0.02-0.06	5	0.3	52	15	6	●	●
4060T-R0.5	0.03-0.07	6	0.5	52	15	6	●	●
4060T-R1.0	0.03-0.07	6	1.0	52	15	6	●	●
4080T-R0.5	0.03-0.09	8	0.5	60	20	8	●	●
4080T-R1.0	0.03-0.09	8	1.0	60	20	8	●	●
4080T-R1.5	0.03-0.09	8	1.5	60	20	8	●	●
4080T-R2.0	0.03-0.09	8	2.0	60	20	8	●	
4100T-R0.5	0.03-0.10	10	0.5	68	25	10	●	●
4100T-R1.0	0.03-0.10	10	1.0	68	25	10	●	●
4100T-R1.5	0.03-0.10	10	1.5	68	25	10	●	●
4100T-R2.0	0.03-0.10	10	2.0	68	25	10	●	●
4100T-R2.5	0.03-0.10	10	2.5	68	25	10	●	
4100T-R3.0	0.03-0.10	10	3.0	68	25	10	●	●
4120T-R0.5	0.04-0.11	12	0.5	76	30	12	●	●
4120T-R1.0	0.04-0.11	12	1.0	76	30	12	●	●
4120T-R1.5	0.04-0.11	12	1.5	76	30	12	●	
4120T-R2.0	0.04-0.11	12	2.0	76	30	12	●	●
4120T-R2.5	0.04-0.11	12	2.5	76	30	12	●	
4120T-R3.0	0.04-0.11	12	3.0	76	30	12	●	●
4160T-R0.5	0.05-0.13	16	0.5	90	40	16	●	●
4160T-R1.0	0.05-0.13	16	1.0	90	40	16	●	●
4160T-R1.5	0.05-0.13	16	1.5	90	40	16	●	●
4160T-R2.0	0.05-0.13	16	2.0	90	40	16	●	●
4160T-R3.0	0.05-0.13	16	3.0	90	40	16	●	●
4200T-R0.5	0.05-0.13	20	0.5	110	45	20	●	●
4200T-R1.0	0.05-0.13	20	1.0	110	45	20	●	●
4200T-R1.5	0.05-0.13	20	1.5	110	45	20	●	
4200T-R2.0	0.05-0.13	20	2.0	110	45	20	●	
4200T-R3.0	0.05-0.13	20	3.0	110	45	20	●	●

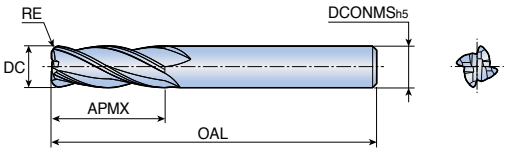
●: Standard items

HES 4...LT-R

RHINOSOLID APEXMILL

4 flute long corner radius





4 | H·A 30° | Cutting Condition F134

RE ±0.02

DC	Tolerance
DC ≤ 12	0 - -0.030
DC > 12	0 - -0.035

Designation	Feed (mm/tooth)	Dimension (mm)					Grades	
		DC	RE	OAL	APMX	DCONMS	TT5515	TT5525
HES 4030LT-R0.5	0.02-0.05	3	0.5	70	10	6	●	●
4040LT-R0.5	0.02-0.05	4	0.5	70	12	6	●	●
4040LT-R1.0	0.02-0.05	4	1.0	70	12	6	●	●
4060LT-R0.5	0.03-0.07	6	0.5	80	15	6	●	●
4060LT-R1.0	0.03-0.07	6	1.0	80	15	6	●	●
4080LT-R0.5	0.03-0.09	8	0.5	90	20	8	●	●
4080LT-R1.0	0.03-0.09	8	1.0	90	20	8	●	●
4100LT-R0.5	0.03-0.10	10	0.5	100	25	10	●	●
4100LT-R1.0	0.03-0.10	10	1.0	100	25	10	●	●
4120LT-R0.5	0.04-0.11	12	0.5	110	30	12	●	●
4120LT-R1.0	0.04-0.11	12	1.0	110	30	12	●	●

●: Standard items

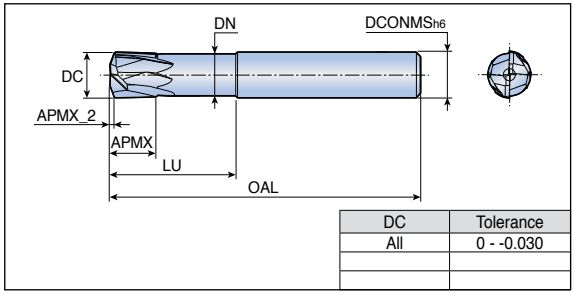
TaeguTec

HFM 2

SOLIDFEED APEXMILL

2 flute high feed flat





DC	Tolerance
All	0 - -0.030

• High Feed Machining (H.F.M)



Designation	Feed (mm/tooth)	Dimension (mm)							Grade
		DC	OAL	APMX	APMX_2✱	LU	DN	DCONMS	TT5515
HFM 2040	0.2-0.4	4	47	4	0.3	10	3.9	6	●
2060	0.3-0.6	6	52	6	0.5	16	5.5	6	●
2080	0.4-0.7	8	60	8	0.75	22	7.3	8	●
2100	0.5-0.9	10	68	10	1.0	28	9.2	10	●
2120	0.5-1.0	12	76	12	1.1	33	11.0	12	●

• ✱: Maximum D.O.C for high feed milling

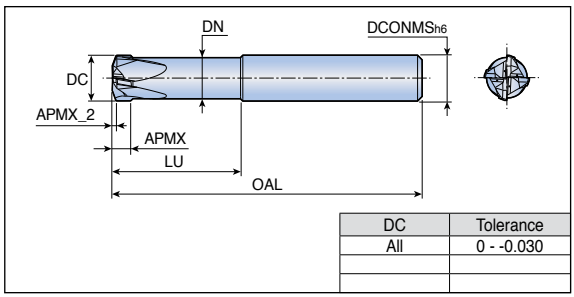
●: Standard items

HFM 4

SOLIDFEED APEXMILL

4 flute high feed flat





DC	Tolerance
All	0 - -0.030

• High Feed Machining (H.F.M)



Designation	Feed (mm/tooth)	Dimension (mm)							Grade
		DC	OAL	APMX	APMX_2✱	LU	DN	DCONMS	TT5515
HFM 4060	0.3-0.5	6	52	2.5	0.5	16	5.4	6	●
4080	0.3-0.6	8	60	3.5	0.7	24	7.2	8	●
4100	0.4-0.8	10	68	4.0	0.75	28	9.2	10	●
4120	0.4-1.0	12	76	5.0	1.05	33	11.0	12	●

• ✱: Maximum D.O.C for high feed milling

●: Standard items

CFM 4...M

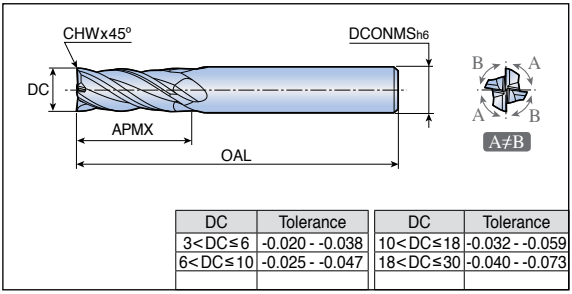
VFIMILL APEXMILL

4 flute corner chamfer



• Vibration free mill





DC	Tolerance	DC	Tolerance
3<DC≤6	-0.020 - -0.038	10<DC≤18	-0.032 - -0.059
6<DC≤10	-0.025 - -0.047	18<DC≤30	-0.040 - -0.073

Designation		Feed (mm/tooth)	Dimension (mm)					Grade
			DC	CHW	OAL	APMX	DCONMS	TT5525
CFM	4060M	0.03-0.07	6	0.25	57	14	6	●
	4080M	0.03-0.08	8	0.3	63	18	8	●
	4100M	0.03-0.10	10	0.4	72	22	10	●
	4120M	0.04-0.11	12	0.5	83	26	12	●
	4160M	0.05-0.13	16	0.6	100	34	16	●
	4200M	0.05-0.17	20	0.6	110	42	20	●
	4250M	0.06-0.20	25	0.6	121	52	25	●

●: Standard items

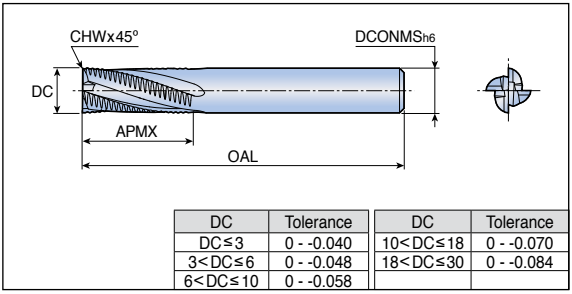
REL ...L

RHINOSOLID APEXMILL

3-4 flute rough long corner chamfer







DC	Tolerance	DC	Tolerance
DC≤3	0 - -0.040	10<DC≤18	0 - -0.070
3<DC≤6	0 - -0.048	18<DC≤30	0 - -0.084
6<DC≤10	0 - -0.058		

Designation		Feed (mm/tooth)	Dimension (mm)						Grade
			DC	NOF	CHW	OAL	APMX	DCONMS	TT5515
REL	3060L	0.03-0.06	6	3	0.38	57	16	6	●
	3080L	0.03-0.08	8	3	0.38	63	16	8	●
	4100L	0.03-0.09	10	4	0.61	72	22	10	●
	4120L	0.04-0.10	12	4	0.61	83	26	12	●
	4140L-14	0.05-0.11	14	4	0.61	83	26	14	●
	4160L	0.05-0.11	16	4	0.61	92	32	16	●
	4200L	0.05-0.11	20	4	0.61	104	38	20	●

• Weldon shank is available on request (Ordering example: RELW ....L)

●: Standard items

• NOF: Number of flutes

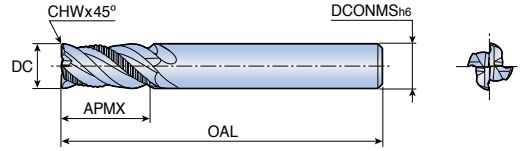
TaeguTec Member IMC Group

FSM 4...M

MULTIMILL APEXMILL

4 flute medium corner chamfer





DC	Tolerance	DC	Tolerance
3<DC≤6	-0.020 - -0.038	10<DC≤18	-0.032 - -0.059
6<DC≤10	-0.025 - -0.047	18<DC≤30	-0.040 - -0.073

• MULTIMILL (Rough + Finish)

4 | H·A 45° | Cutting Condition F134

Designation		Feed (mm/tooth)	Dimension (mm)					Grade
			DC	CHW	OAL	APMX	DCONMS	TT5525
FSM	4060M	0.03-0.06	6	0.25	57	14	6	●
	4080M	0.03-0.08	8	0.3	63	18	8	●
	4100M	0.03-0.09	10	0.3	72	22	10	●
	4120M	0.04-0.11	12	0.4	83	26	12	●
	4140M	0.04-0.11	14	0.4	83	30	14	●
	4160M	0.05-0.11	16	0.6	92	34	16	●
	4200M	0.05-0.11	20	0.6	104	42	20	●
	4250M	0.06-0.11	25	0.6	121	52	25	●

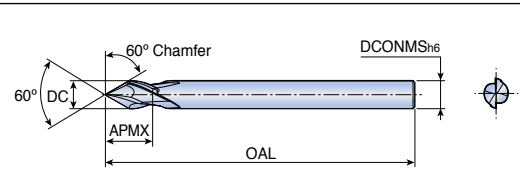
●: Standard items

CEM 2...-C60

RHINOSOLID APEXMILL

2 flute, 60° chamfering





DC	Tolerance
All	0 - -0.030

• Multi-function
- Chamfer boring, chamfer milling, side milling

2 | H·A 30° | Cutting Condition F134

Designation		Feed (mm/tooth)	Dimension (mm)				Grade
			DC	OAL	APMX	DCONMS	UF10
CEM	2040-C60	0.02-0.04	4	70	7.5	6	●
	2060-C60	0.02-0.04	6	80	11.2	6	●
	2080-C60	0.03-0.06	8	90	14.9	8	●
	2100-C60	0.03-0.08	10	100	18.7	10	●
	2120-C60	0.04-0.09	12	110	22.4	12	●
	2160-C60	0.05-0.10	16	125	29.9	16	●
	2200-C60	0.05-0.10	20	150	37.3	20	●

●: Standard items

CEM 2

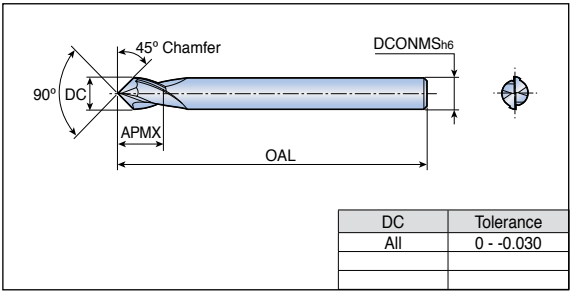
RHINOSOLID APEXMILL

2 flute, 45° chamfering



- Multi-function
  - Chamfer boring, chamfer milling, side milling, *centering, V-slot milling

2 | H·A 30° | Cutting Condition F134



DC	Tolerance
All	0 - -0.030

Designation		Feed (mm/tooth)	Dimension (mm)				Grade	
			DC	OAL	APMX	DCONMS	UF10	TT5525
CEM	2040	0.02-0.05	4	70	6	6	●	●
	2060	0.02-0.05	6	80	9	6	●	●
	2080	0.03-0.07	8	90	12	8	●	●
	2100	0.03-0.10	10	100	15	10	●	●
	2120	0.04-0.10	12	110	18	12	●	●
	2160	0.05-0.10	16	125	24	16	●	●
	2200	0.05-0.10	20	150	30	20	●	●

• *Centering of 45˚ is only applicable on cast iron & non-ferrous material

●: Standard items

CEM 2...-C120

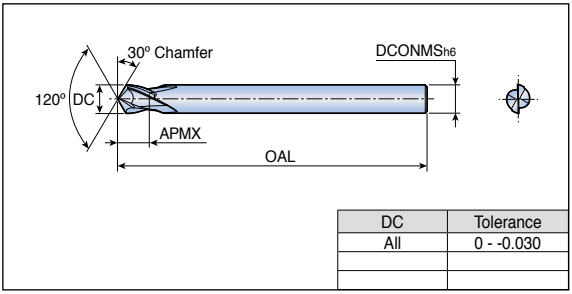
RHINOSOLID APEXMILL

2 flute, 30° chamfering



- Multi-function
  - Chamfer boring, chamfer milling, side milling, centering, V-slot milling, drilling

2 | H·A 30° | Cutting Condition F134



DC	Tolerance
All	0 - -0.030

Designation		Feed (mm/tooth)	Dimension (mm)				Grade
			DC	OAL	APMX	DCONMS	UF10
CEM	2040-C1204	0.02-0.05	4	70	5.2	6	●
	2060-C120	0.02-0.05	6	80	7.7	6	●
	2080-C120	0.03-0.07	8	90	10.3	8	●
	2100-C120	0.03-0.10	10	100	12.9	10	●
	2120-C120	0.04-0.10	12	110	15.5	12	●
	2160-C120	0.05-0.10	16	125	20.6	16	●
	2200-C120	0.05-0.10	20	150	25.8	20	●

●: Standard items

ECEM 2

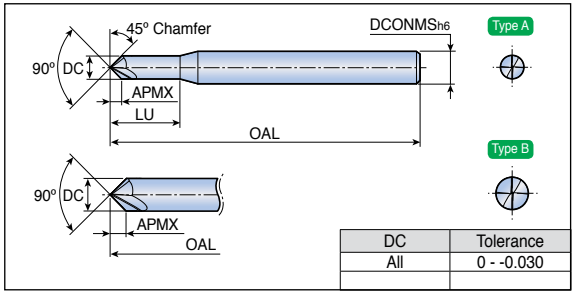
RHINOSOLID APEXMILL

2 flute, 45° chamfering - Economical type



- Multi-function
  -Chamfer boring, chamfer milling, centering, V-slot milling

2 | Cutting Condition F134



DC	Tolerance
All	0 - -0.030

Designation		Feed (mm/tooth)	Dimension (mm)						Grade
			DC	OAL	APMX	LU	DCONMS	Type	UF10
ECEM	**2020**	0.01-0.03	2	57	1.0	6	6	A	●
	2030	0.01-0.04	3	57	1.5	9	6	A	●
	2040	0.02-0.05	4	57	2.0	12	6	A	●
	2060	0.02-0.05	6	57	2.9	-	6	B	●
	2080	0.03-0.07	8	63	3.8	-	8	B	●
	2100	0.03-0.10	10	72	4.9	-	10	B	●
	2120	0.04-0.10	12	83	5.9	-	12	B	●
	2160	0.05-0.10	16	92	7.9	-	16	B	●

●: Standard items

ECEM 4

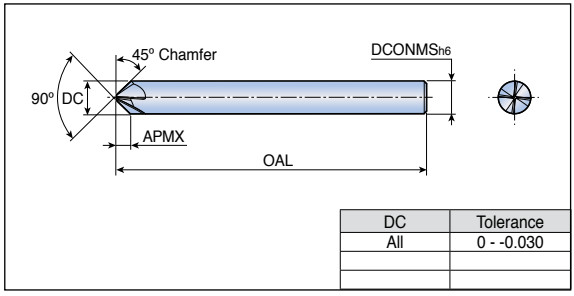
RHINOSOLID APEXMILL

4 flute, 45° chamfering - Economical type



- Chamfer milling

4 | Cutting Condition F134



DC	Tolerance
All	0 - -0.030

Designation		Feed (mm/tooth)	Dimension (mm)				Grade
			DC	OAL	APMX	DCONMS	UF10
ECEM	**4060**	0.02-0.04	6	57	2.5	6	●
	4080	0.02-0.05	8	63	3.4	8	●
	4100	0.03-0.08	10	72	4.4	10	●
	4120	0.03-0.08	12	83	5.1	12	●

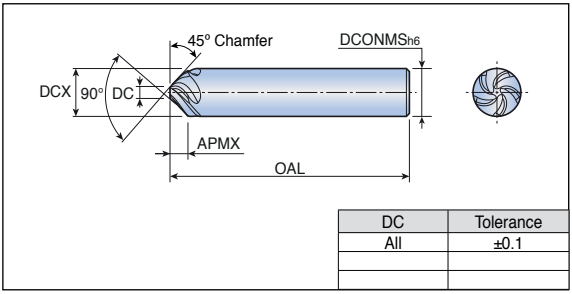
●: Standard items

HCEM 5

APEXMILL

5 flute, 45° chamfering





DC	Tolerance
All	±0.1

5 | H·A 40° | Cutting Condition F134

Designation	Feed (mm/tooth)	Dimension (mm)					Grade
		DCX	DC	OAL	APMX	DCONMS	TT5525
HCEM 5080	0.02-0.06	8	2	63	3.0	8	●
5100	0.03-0.07	10	2.5	72	3.8	10	●
5120	0.03-0.08	12	3	83	4.5	12	●
5160	0.04-0.10	16	4	92	6.0	16	●

●: Standard items

TaeguTec

SBT 3...U

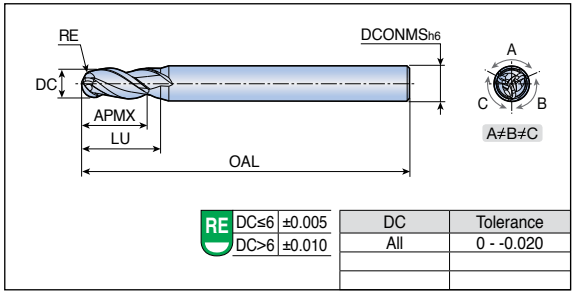
STARMILL

3 flute medium ball



- Excellent chatter damping due to unequal spacing of cutting edges





RE		DC	Tolerance
	DC≤6 ±0.005	All	0 - -0.020
	DC>6 ±0.010		

Designation	Dimension (mm)						Grade
	DC	RE	OAL	APMX	LU	DCONMS	TT5515
SBT 3040U	4	2	70	8	10	6	●
3060U	6	3	80	12	-	6	●
3080U	8	4	90	16	-	8	●
3100U	10	5	100	20	-	10	●
3120U	12	6	110	25	-	12	●

●: Standard items

SBT 4...U

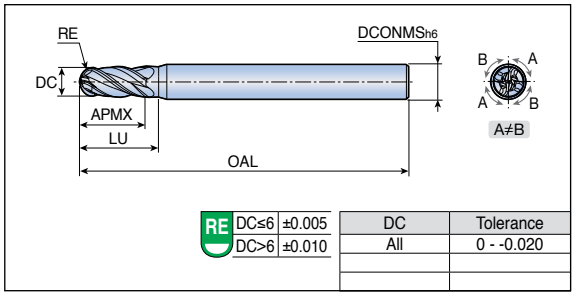
STARMILL

4 flute medium ball



- Excellent chatter damping due to unequal spacing of cutting edges





RE		DC	Tolerance
	DC≤6 ±0.005	All	0 - -0.020
	DC>6 ±0.010		

Designation	Dimension (mm)						Grade
	DC	RE	OAL	APMX	LU	DCONMS	TT5515
SBT 4040U	4	2	70	8	10	6	●
4060U	6	3	80	12	-	6	●
4080U	8	4	90	16	-	8	●
4100U	10	5	100	20	-	10	●
4120U	12	6	110	25	-	12	●

●: Standard items

SED 4...U

STARMILL

4 flute medium flat

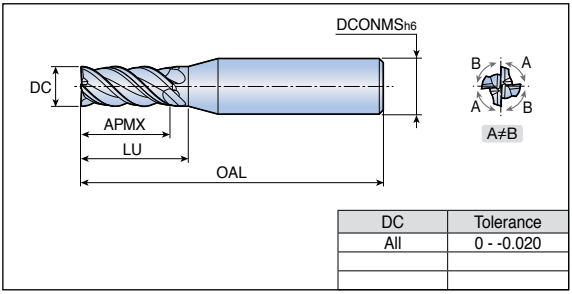


- Excellent chatter damping credit to unequal spacing of cutting edges









DC	Tolerance
All	0 - -0.020

Designation	Feed (mm/tooth)	Dimension (mm)					Grade
		DC	OAL	APMX	LU	DCONMS	TT5515
SED 4030U	0.015-0.030	3	57	10	12	6	●
4040U	0.020-0.040	4	57	12	14	6	●
4050U	0.020-0.040	5	57	15	16	6	●
4060U	0.025-0.070	6	57	15	-	6	●
4080U	0.030-0.090	8	70	25	-	8	●
4100U	0.030-0.100	10	72	25	-	10	●
4120U	0.035-0.110	12	83	30	-	12	●
4160U	0.050-0.130	16	100	42	-	16	●
4200U	0.050-0.170	20	104	48	-	20	●

●: Standard items

SED 4...UL

STARMILL

4 flute long flat

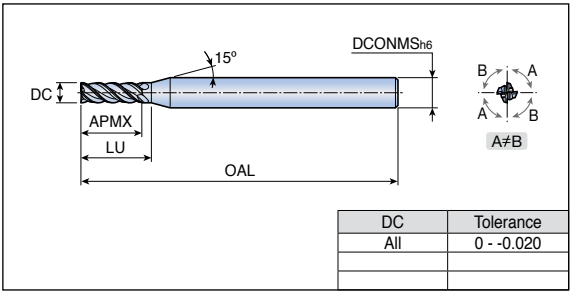


- Excellent chatter damping credit to unequal spacing of cutting edges









DC	Tolerance
All	0 - -0.020

Designation	Feed (mm/tooth)	Dimension (mm)					Grade
		DC	OAL	APMX	LU	DCONMS	TT5515
SED 4030UL	0.015-0.030	3	63	10	12	6	●
4040UL	0.020-0.040	4	63	12	14	6	●
4060UL	0.025-0.070	6	65	20	-	6	●
4080UL	0.030-0.090	8	83	30	-	8	●
4100UL	0.030-0.100	10	83	35	-	10	●
4120UL	0.035-0.110	12	92	40	-	12	●

●: Standard items

SED 4...-R

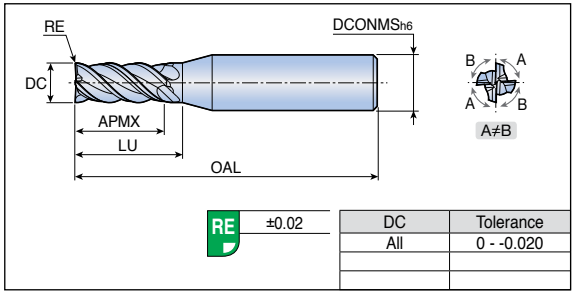
STARMILL

4 flute medium corner radius



- Excellent chatter damping credit to unequal spacing of cutting edges





DC	Tolerance
All	0 - -0.020

Designation	Feed (mm/tooth)	Dimension (mm)						Grade
		DC	RE	OAL	APMX	LU	DCONMS	TT5515
SED 4020U-R0.1	0.010-0.020	2	0.1	42	6	8	6	●
4030U-R0.2	0.015-0.030	3	0.2	57	10	12	6	●
4040U-R0.1	0.020-0.040	4	0.1	57	12	14	6	●
4040U-R0.2	0.020-0.040	4	0.2	57	12	14	6	●
4040U-R0.5	0.020-0.040	4	0.5	57	12	14	6	●
4050U-R0.15	0.020-0.040	5	0.15	57	15	16	6	●
4050U-R0.2	0.020-0.040	5	0.2	57	15	16	6	●
4060U-R0.2	0.025-0.070	6	0.2	57	15	-	6	●
4060U-R0.3	0.025-0.070	6	0.3	57	15	-	6	●
4060U-R0.5	0.025-0.070	6	0.5	57	15	-	6	●
4080U-R0.2	0.030-0.090	8	0.2	70	25	-	8	●
4080U-R0.3	0.030-0.090	8	0.3	70	25	-	8	●
4080U-R0.5	0.030-0.090	8	0.5	70	25	-	8	●
4100U-R0.2	0.030-0.100	10	0.2	72	25	-	10	●
4100U-R0.3	0.030-0.100	10	0.3	72	25	-	10	●
4100U-R0.5	0.030-0.100	10	0.5	72	25	-	10	●
4100U-R1.0	0.030-0.100	10	1.0	72	25	-	10	●
4120U-R0.3	0.035-0.110	12	0.3	83	30	-	12	●
4120U-R0.5	0.035-0.110	12	0.5	83	30	-	12	●
4120U-R1.0	0.035-0.110	12	1.0	83	30	-	12	●
4160U-R0.5	0.050-0.130	16	0.5	100	42	-	16	●
4160U-R1.0	0.050-0.130	16	1.0	100	42	-	16	●
4160U-R2.0	0.050-0.130	16	2.0	100	42	-	16	●
4160U-R3.0	0.050-0.130	16	3.0	100	42	-	16	●

●: Standard items

ADVANCE MACHINING
TaeguTec Industry 4.0

SED 4...-C

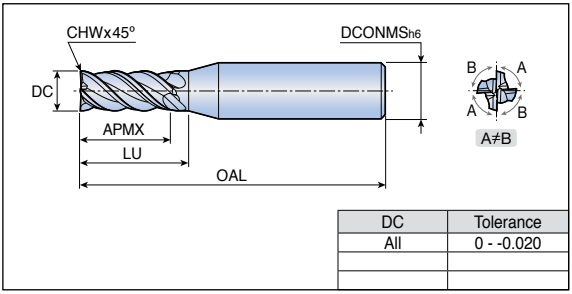
STARMILL

4 flute medium corner chamfer



- Excellent chatter damping credit to unequal spacing of cutting edges





DC	Tolerance
All	0 - -0.020

Designation	Feed (mm/tooth)	Dimension (mm)						Grade
		DC	CHW	OAL	APMX	LU	DCONMS	TT5515
SED 4040U-C0.1	0.020-0.040	4	0.1	57	12	14	6	●
4060U-C0.2	0.030-0.060	6	0.2	57	15	-	6	●
4080U-C0.3	0.030-0.090	8	0.3	70	25	-	8	●
4100U-C0.3	0.030-0.100	10	0.3	72	25	-	10	●
4120U-C0.4	0.035-0.110	12	0.4	83	30	-	12	●

●: Standard items

SED 7

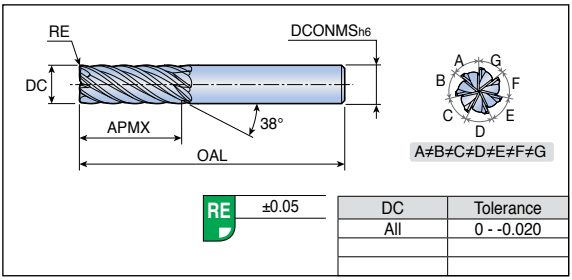
STARMILL

7 flute medium corner radius



- Excellent chatter damping credit to unequal spacing of cutting edges
- For trochoidal operation





DC	Tolerance
All	0 - -0.020

Designation	Feed (mm/tooth)	Dimension (mm)					Grade
		DC	RE	OAL	APMX	DCONMS	TT5515
SED 7060	0.02-0.04	6	0.5	57	15	6	●
7060-4D	0.02-0.04	6	0.5	70	24	6	●
7080	0.02-0.05	8	0.5	70	25	8	●
7080-4D	0.02-0.05	8	0.5	90	32	8	●
7100	0.03-0.07	10	0.5	72	25	10	●
7100-4D	0.03-0.07	10	0.5	100	40	10	●
7120	0.03-0.09	12	0.5	83	30	12	●
7120-4D	0.03-0.09	12	0.5	110	48	12	●
7140	0.04-0.10	14	0.5	90	35	14	●
7160	0.04-0.11	16	0.5	100	42	16	●
7160-4D	0.04-0.11	16	0.5	125	64	16	●
7200	0.05-0.12	20	0.5	104	48	20	●
7200-4D	0.05-0.12	20	0.5	150	80	20	●

- 4D: 4xD depth of cut

●: Standard items

SED 7...N

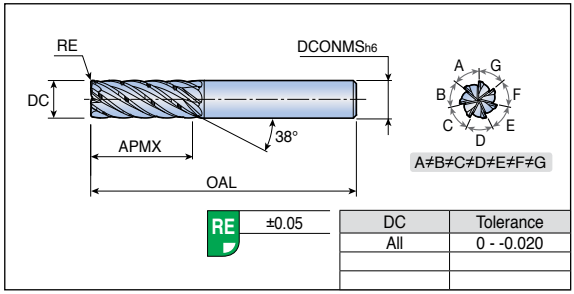
STARMILL

7 flute medium corner radius with chip splitters



- Excellent chatter damping credit to unequal spacing of cutting edges with chip splitters
- For trochoidal operation





Designation		Feed (mm/tooth)	Dimension (mm)					Grade
			DC	RE	OAL	APMX	DCONMS	TT5515
SED	7060-N	0.02-0.04	6	0.5	57	15	6	●
	7060-4D-N	0.02-0.04	6	0.5	70	24	6	●
	7080-N	0.02-0.05	8	0.5	70	25	8	●
	7080-4D-N	0.02-0.05	8	0.5	90	32	8	●
	7100-N	0.03-0.07	10	0.5	72	25	10	●
	7100-4D-N	0.03-0.07	10	0.5	100	40	10	●
	7120-N	0.03-0.09	12	0.5	83	30	12	●
	7120-4D-N	0.03-0.09	12	0.5	110	48	12	●
	7160-N	0.04-0.11	16	0.5	100	42	16	●
	7160-4D-N	0.04-0.11	16	0.5	125	64	16	●
	7200-N	0.05-0.12	20	0.5	104	48	20	●
	7200-4D-N	0.05-0.12	20	0.5	150	80	20	●

- N: chip splitter type

●: Standard items

ADVANCE MACHINING
TaeguTec Industry 4.0

SER

STARMILL

3-5 flute chip splitter type

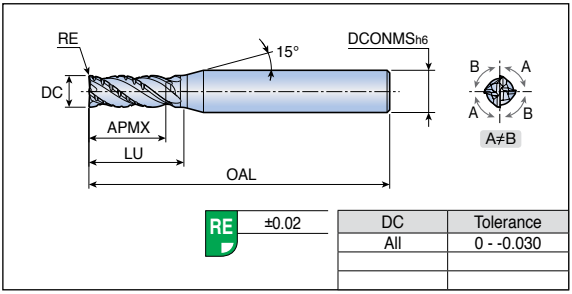


- Excellent chatter damping credit to unequal spacing of cutting edges









RE ±0.02

DC	Tolerance
All	0 - -0.030

Designation	Feed (mm/tooth)		Dimension (mm)						Grade
			DC	RE	OAL	APMX	LU	DCONMS	TT5525
SER 3030M 020	0.010-0.030	3	3	0.2	52	8	10	6	●
3040M 020	0.020-0.040	3	4	0.2	52	10	12	6	●
4050M 020	0.020-0.040	4	5	0.2	57	13	18	6	●
4060M 020	0.025-0.070	4	6	0.2	57	13	-	6	●
4060M 050	0.025-0.070	4	6	0.5	57	13	-	6	●
4070M 020	0.025-0.070	4	7	0.2	63	18	25	8	●
4080M 020	0.030-0.090	4	8	0.2	63	19	-	8	●
4080M 100	0.030-0.090	4	8	1.0	63	19	-	8	●
4090M 030	0.030-0.090	4	9	0.3	72	20	30	10	●
4100M 030	0.030-0.100	4	10	0.3	72	22	-	10	●
4100M 100	0.030-0.100	4	10	1.0	72	22	-	10	●
4110M 030	0.030-0.100	4	11	0.3	83	25	35	12	●
4120M 030	0.035-0.110	4	12	0.3	83	26	-	12	●
4120M 100	0.035-0.110	4	12	1.0	83	26	-	12	●
5140M 050	0.035-0.110	5	14	0.5	92	28	40	16	●
5160M 050	0.050-0.130	5	16	0.5	92	32	-	16	●
5160M 150	0.050-0.130	5	16	1.5	92	32	-	16	●
5180M 050	0.050-0.130	5	18	0.5	110	38	55	20	●
5180M 200	0.050-0.130	5	18	2.0	110	38	55	20	●
5200M 050	0.050-0.170	5	20	0.5	110	38	-	20	●
5200M 200	0.050-0.170	5	20	2.0	110	38	-	20	●

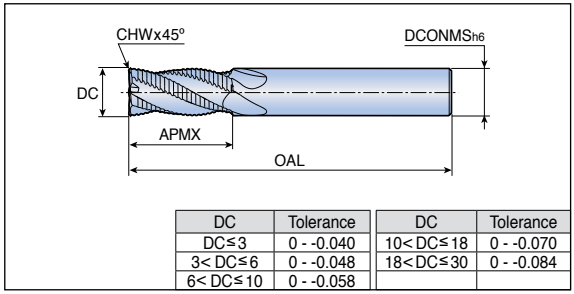
●: Standard items

TaeguTec

REH ...S

4-6 flute rough short corner chamfer





DC	Tolerance	DC	Tolerance
DC≤3	0 - -0.040	10< DC≤18	0 - -0.070
3< DC≤6	0 - -0.048	18< DC≤30	0 - -0.084
6< DC≤10	0 - -0.058		

4-6 | H·A 45° | Cutting Condition F134

Designation		Feed (mm/tooth)	Dimension (mm)						Grade
			DC	NOF	CHW	OAL	APMX	DCONMS	TT5525
REH	4060S	0.04-0.12	6	4	0.25	54	7	6	●
	4080S	0.05-0.16	8	4	0.30	58	9	8	●
	4100S	0.06-0.18	10	4	0.36	66	14	10	●
	4120S	0.06-0.20	12	4	0.36	73	16	12	●
	5160S	0.08-0.22	16	5	0.36	82	22	16	●
	6200S	0.08-0.22	20	6	0.36	92	26	20	●

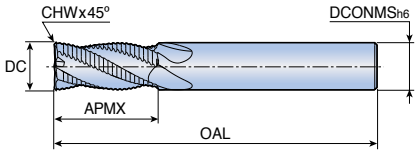
• Weldon shank is available on request (Ordering example: REHW ....S)
• NOF: Number of flutes

●: Standard items

REH ...M

3-6 flute rough medium corner chamfer





DC	Tolerance	DC	Tolerance
DC≤3	0 - -0.040	10< DC≤18	0 - -0.070
3< DC≤6	0 - -0.048	18< DC≤30	0 - -0.084
6< DC≤10	0 - -0.058		

3-6 | H·A 45° | Cutting Condition F134

Designation	Feed (mm/tooth)	Dimension (mm)						Grade
		DC	NOF	CHW	OAL	APMX	DCONMS	TT5525
REH 3040M	0.02-0.05	4	3	0.15	57	11	6	●
4050M	0.02-0.05	5	4	0.20	57	13	6	●
4060M	0.04-0.12	6	4	0.25	57	16	6	●
4070M	0.05-0.16	7	4	0.28	63	16	8	●
4080M	0.05-0.16	8	4	0.30	63	16	8	●
4090M	0.06-0.18	9	4	0.33	72	19	10	●
4100M	0.06-0.18	10	4	0.36	72	22	10	●
4120M	0.06-0.20	12	4	0.36	83	26	12	●
5140M-14	0.08-0.22	14	5	0.36	83	26	14	●
5160M	0.08-0.22	16	5	0.36	92	32	16	●
6200M	0.08-0.22	20	6	0.36	104	38	20	●
6250M	0.08-0.22	25	6	0.36	121	45	25	●

• Weldon shank is available on request (Ordering example: REHW ....M)

●: Standard items

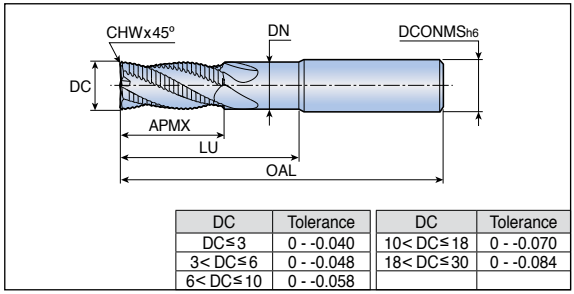
• NOF: Number of flutes

TaeguTec Member IMC Group

REH ...L

4-6 flute rough long neck corner chamfer





DC	Tolerance	DC	Tolerance
DC≤3	0 - -0.040	10< DC≤18	0 - -0.070
3< DC≤6	0 - -0.048	18< DC≤30	0 - -0.084
6< DC≤10	0 - -0.058		

4-6 | H·A 45° | Cutting Condition F134

Designation	Feed (mm/tooth)	Dimension (mm)								Grade
		DC	NOF	CHW	OAL	APMX	LU	DN	DCONMS	TT5525
REH 4060L	0.04-0.12	6	4	0.25	57	16	20	5.5	6	●
4080L	0.05-0.16	8	4	0.30	63	16	26	7.5	8	●
4100L	0.06-0.18	10	4	0.36	72	22	31	9.5	10	●
4120L	0.06-0.20	12	4	0.36	83	26	37	11.5	12	●
5160L	0.08-0.22	16	5	0.36	100	32	51	15.5	16	●
6200L	0.08-0.22	20	6	0.36	110	38	59	19.2	20	●

• Weldon shank is available on request (Ordering example: REHW ....L)
• NOF: Number of flutes

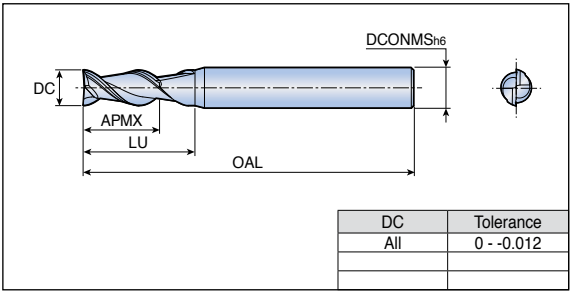
●: Standard items

AES 2

RHINOSOLID ALUMILL

2 flute medium flat





DC	Tolerance
All	0 - -0.012

2 | H·A 45° | Cutting Condition F134

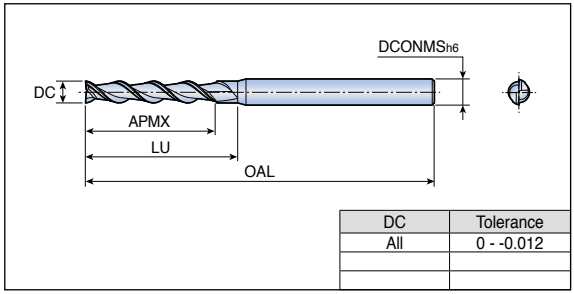
Designation	Feed (mm/tooth)	Dimension (mm)					Grade
		DC	OAL	APMX	LU	DCONMS	UF10
AES 2010	0.02-0.04	1.0	40	3	5	4	●
2010-6	0.02-0.04	1.0	47	3	5	6	●
2015-6	0.02-0.04	1.5	47	3	5	6	●
2020	0.02-0.04	2.0	40	6	8	4	●
2020-6	0.02-0.04	2.0	47	6	8	6	●
2025	0.02-0.05	2.5	40	8	10	4	●
2025-6	0.02-0.05	2.5	47	8	10	6	●
2030	0.02-0.05	3.0	47	10	13	6	●
2035	0.02-0.05	3.5	47	10	13	6	●
2040	0.02-0.05	4.0	47	12	15	6	●
2050	0.02-0.06	5.0	52	15	20	6	●
2060	0.03-0.07	6.0	52	15	-	6	●
2070	0.03-0.09	7.0	60	20	26	8	●
2080	0.03-0.09	8.0	60	20	-	8	●
2090	0.03-0.10	9.0	68	25	31	10	●
2100	0.03-0.10	10.0	68	25	31	10	●
2110	0.03-0.12	11.0	76	30	37	12	●
2120	0.03-0.12	12.0	76	30	-	12	●
2130	0.03-0.12	13.0	85	35	40	14	●
2140	0.05-0.14	14.0	85	35	40	14	●
2150	0.05-0.14	15.0	90	40	50	16	●
2160	0.05-0.14	16.0	90	40	-	16	●
2170	0.05-0.15	17.0	110	45	55	18	●
2180	0.05-0.15	18.0	110	45	55	18	●
2190	0.05-0.15	19.0	110	45	55	20	●
2200	0.05-0.15	20.0	110	45	-	20	●

●: Standard items

AES 2...XL

2 flute extra long flat





DC	Tolerance
All	0 - -0.012



Designation	Feed (mm/tooth)	Dimension (mm)					Grade
		DC	OAL	APMX	LU	DCONMS	UF10
AES 2020XL	0.02-0.04	2	60	12	15	4	●
2030XL	0.02-0.04	3	70	20	23	6	●
2040XL	0.02-0.04	4	70	25	28	6	●
2050XL	0.02-0.06	5	80	30	35	6	●
2060XL	0.03-0.07	6	80	30	-	6	●
2080XL	0.03-0.09	8	90	40	-	8	●
2100XL	0.03-0.10	10	100	50	-	10	●
2120XL	0.03-0.12	12	110	55	-	12	●
2160XL	0.05-0.14	16	125	70	-	16	●
2200XL	0.05-0.15	20	150	75	-	20	●

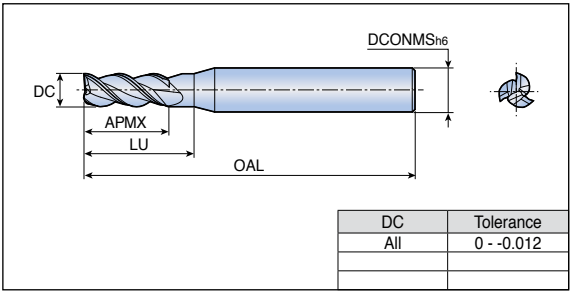
●: Standard items

AES 3

RHINOSOLID ALUMILL

3 flute medium flat





DC	Tolerance
All	0 - -0.012

3 | H·A 45° | Cutting Condition F134

Designation		Feed (mm/tooth)	Dimension (mm)					Grade
			DC	OAL	APMX	LU	DCONMS	UF10
AES	**3020-6**	0.02-0.04	2	47	6	8	6	●
	3030	0.02-0.05	3	47	10	13	6	●
	3040	0.02-0.05	4	47	12	15	6	●
	3050	0.02-0.06	5	52	15	20	6	●
	3060	0.03-0.07	6	52	15	-	6	●
	3070	0.03-0.09	7	60	20	26	8	●
	3080	0.03-0.09	8	60	20	-	8	●
	3090	0.03-0.10	9	68	25	31	10	●
	3100	0.03-0.10	10	68	25	-	10	●
	3110	0.03-0.12	11	76	30	37	12	●
	3120	0.03-0.12	12	76	30	-	12	●
	3130	0.03-0.12	13	85	35	40	14	●
	3140	0.05-0.14	14	85	35	-	14	●
	3150	0.05-0.14	15	90	40	50	16	●
	3160	0.05-0.14	16	90	40	-	16	●
	3180	0.05-0.15	18	110	45	-	18	●
	3200	0.05-0.15	20	110	45	-	20	●
	3250	0.05-0.15	25	140	65	-	25	●

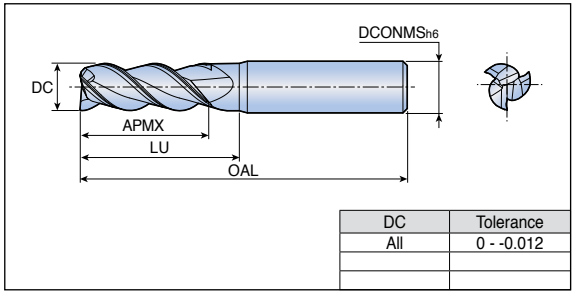
●: Standard items

AES 3...ML

RHINOSOLID ALUMILL

3 flute long flat





DC	Tolerance
All	0 - -0.012

3 | H·A 45° | Cutting Condition F134

Designation		Feed (mm/tooth)	Dimension (mm)					Grade
			DC	OAL	APMX	LU	DCONMS	UF10
AES	**3030ML**	0.02-0.05	3	60	15	18	6	●
	3040ML	0.02-0.05	4	60	20	25	6	●
	3050ML	0.02-0.06	5	65	25	30	6	●
	3060ML	0.03-0.07	6	65	25	-	6	●
	3070ML	0.03-0.09	7	75	30	35	8	●
	3080ML	0.03-0.09	8	75	30	-	8	●
	3090ML	0.03-0.10	9	80	35	40	10	●
	3100ML	0.03-0.10	10	80	35	-	10	●
	3120ML	0.03-0.12	12	95	40	-	12	●
	3140ML	0.05-0.14	14	110	55	62	16	●
	3160ML	0.05-0.14	16	110	55	-	16	●
	3180ML	0.05-0.15	18	125	60	70	20	●
	3200ML	0.05-0.15	20	125	60	-	20	●

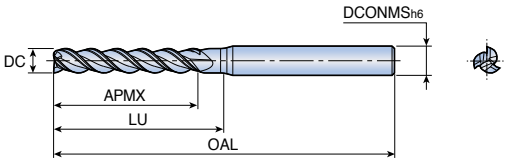
●: Standard items

AES 3...XL

RHINOSOLID ALUMILL

3 flute extra long flat





DC	Tolerance
All	0 - -0.012

3 | H·A 45° | Cutting Condition F134

Designation	Feed (mm/tooth)	Dimension (mm)					Grade
		DC	OAL	APMX	LU	DCONMS	UF10
AES 3060XL	0.03-0.07	6	80	30	-	6	●
3080XL	0.03-0.09	8	90	40	-	8	●
3100XL	0.03-0.10	10	100	50	-	10	●
3120XL	0.03-0.12	12	110	55	-	12	●
3160XL	0.05-0.14	16	125	70	-	16	●
3180XL	0.05-0.15	18	150	75	85	20	●
3180XL(80x150)	0.05-0.15	18	150	80	90	20	●
3200XL	0.05-0.15	20	150	75	-	20	●
3200XL(80x150)	0.05-0.15	20	150	80	-	20	●

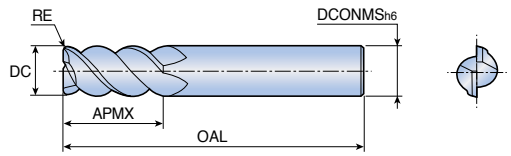
●: Standard items

TaeguTec

AES 2...R

2 flute medium corner radius







RE ±0.02

DC	Tolerance
All	0 - -0.012

Designation	Feed (mm/tooth)	Dimension (mm)					Grade
		DC	RE	OAL	APMX	DCONMS	UF10
AES 2060-R0.5	0.03-0.07	6	0.5	52	15	6	●
2060-R1.0	0.03-0.07	6	1.0	52	15	6	●
2060-R2.0	0.03-0.07	6	2.0	52	15	6	●
2080-R0.5	0.03-0.09	8	0.5	60	20	8	●
2080-R1.0	0.03-0.09	8	1.0	60	20	8	●
2080-R2.0	0.03-0.09	8	2.0	60	20	8	●
2080-R3.0	0.03-0.09	8	3.0	60	20	8	●
2100-R1.0	0.03-0.10	10	1.0	68	25	10	●
2100-R1.5	0.03-0.10	10	1.5	68	25	10	●
2100-R2.0	0.03-0.10	10	2.0	68	25	10	●
2100-R3.0	0.03-0.10	10	3.0	68	25	10	●
2100-R4.0	0.03-0.10	10	4.0	68	25	10	●
2120-R1.0	0.03-0.12	12	1.0	76	30	12	●
2120-R2.0	0.03-0.12	12	2.0	76	30	12	●
2120-R3.0	0.03-0.12	12	3.0	76	30	12	●
2120-R4.0	0.03-0.12	12	4.0	76	30	12	●
2140-R1.0	0.05-0.14	14	1.0	85	35	14	●
2140-R2.0	0.05-0.14	14	2.0	85	35	14	●
2140-R3.0	0.05-0.14	14	3.0	85	35	14	●
2140-R4.0	0.05-0.14	14	4.0	85	35	14	●
2140-R5.0	0.05-0.14	14	5.0	85	35	14	●
2160-R1.0	0.05-0.14	16	1.0	90	40	16	●
2160-R2.0	0.05-0.14	16	2.0	90	40	16	●
2160-R3.0	0.05-0.14	16	3.0	90	40	16	●
2160-R4.0	0.05-0.14	16	4.0	90	40	16	●
2160-R5.0	0.05-0.14	16	5.0	90	40	16	●

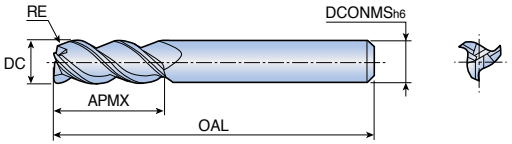
●: Standard items

AES 3...R

RHINOSOLID ALUMILL

3 flute medium corner radius





3 | H·A 45° | Cutting Condition F134

RE ±0.02

DC	Tolerance
All	0 - -0.012

Designation	Feed (mm/tooth)	Dimension (mm)					Grade
		DC	RE	OAL	APMX	DCONMS	UF10
AES 3060-R0.5	0.03-0.07	6	0.5	52	15	6	●
3060-R1.0	0.03-0.07	6	1.0	52	15	6	●
3060-R2.0	0.03-0.07	6	2.0	52	15	6	●
3080-R0.5	0.03-0.09	8	0.5	60	20	8	●
3080-R1.0	0.03-0.09	8	1.0	60	20	8	●
3080-R2.0	0.03-0.09	8	2.0	60	20	8	●
3100-R1.0	0.03-0.10	10	1.0	68	25	10	●
3100-R1.5	0.03-0.10	10	1.5	68	25	10	●
3100-R2.0	0.03-0.10	10	2.0	68	25	10	●
3100-R3.0	0.03-0.10	10	3.0	68	25	10	●
3100-R4.0	0.03-0.10	10	4.0	68	25	10	●
3120-R1.0	0.03-0.12	12	1.0	76	30	12	●
3120-R2.0	0.03-0.12	12	2.0	76	30	12	●
3120-R3.0	0.03-0.12	12	3.0	76	30	12	●
3120-R4.0	0.03-0.12	12	4.0	76	30	12	●
3160-R1.0	0.05-0.14	16	1.0	90	40	16	●
3160-R2.0	0.05-0.14	16	2.0	90	40	16	●
3160-R3.0	0.05-0.14	16	3.0	90	40	16	●

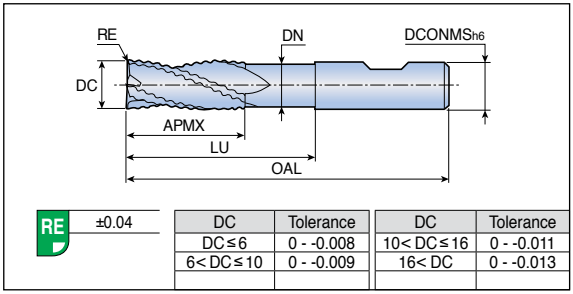
●: Standard items

REMA 3/ 3...C

RHINOSOLID ALUMILL

3 flute rough corner radius





3 | H·A 45° | Cutting Condition F134

RE ±0.04

DC	Tolerance	DC	Tolerance
DC≤6	0 - -0.008	10< DC≤16	0 - -0.011
6< DC≤10	0 - -0.009	16< DC	0 - -0.013

Designation		Feed (mm/tooth)	Dimension (mm)							Grade
Cylindrical shank	Welden shank		DC	RE	OAL	APMX	LU	DN	DCONMS	UF10
REMA 3060C	**REMA 3060**	0.03-0.07	6	0.2	57	9	21	5.5	6	●
3080C	**3080**	0.03-0.11	8	0.2	63	12	27	7.2	8	●
3100C	**3100**	0.05-0.14	10	0.2	72	12	31	9.0	10	●
3120C	**3120**	0.07-0.16	12	0.2	83	12	37	11.0	12	●
3160C	**3160**	0.07-0.18	16	0.2	92	14	43	15.0	16	●
3200C	**3200**	0.07-0.20	20	0.2	104	17	53	18.8	20	●

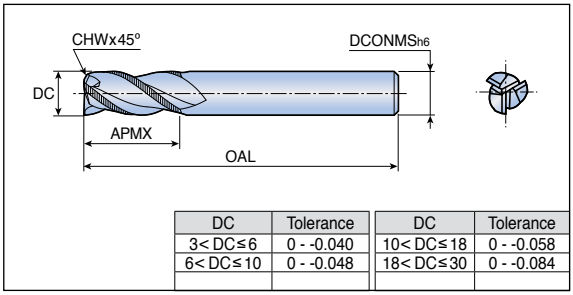
●: Standard items

REA 3...L

RHINOSOLID ALUMILL

3 flute rough corner chamfer





3 | H·A 30° | Cutting Condition F134

DC	Tolerance	DC	Tolerance
3< DC≤6	0 - -0.040	10< DC≤18	0 - -0.058
6< DC≤10	0 - -0.048	18< DC≤30	0 - -0.084

Designation	Feed (mm/tooth)	Dimension (mm)					Grade
		DC	CHW	OAL	APMX	DCONMS	UF10
REA 3060L	0.03-0.07	6	0.61	57	16	6	●
3080L	0.03-0.15	8	0.61	63	16	8	●
3100L	0.05-0.20	10	0.61	72	22	10	●
3120L	0.07-0.22	12	0.66	83	26	12	●
3140L-14	0.07-0.22	14	0.99	83	26	14	●
3160L	0.07-0.25	16	0.99	92	32	16	●
3200L	0.07-0.25	20	0.99	104	38	20	●

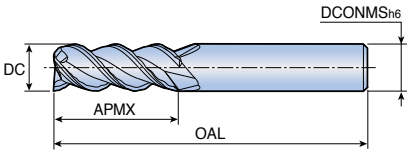
●: Standard items

AWE 3

ALUMILL

3 flute wave flat





• Wave cutting edge



DC	Tolerance
All	0 - -0.012

Designation	Feed (mm/tooth)	Dimension (mm)				Grade
		DC	OAL	APMX	DCONMS	UF10
AWE 3060	0.03-0.07	6	52	14	6	●
3080	0.03-0.09	8	60	14	8	●
3100	0.03-0.10	10	68	19	10	●
3120	0.03-0.12	12	76	22	12	●
3140	0.05-0.14	14	85	24	14	●
3160	0.05-0.14	16	90	30	16	●
3180	0.05-0.15	18	110	34	18	●
3200	0.05-0.15	20	110	38	20	●

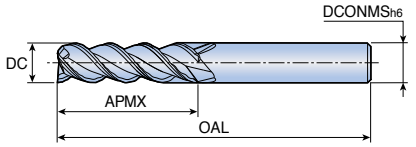
●: Standard items

AWE 3...ML

ALUMILL

3 flute wave long flat





• Wave cutting edge



DC	Tolerance
All	0 - -0.012

Designation	Feed (mm/tooth)	Dimension (mm)				Grade
		DC	OAL	APMX	DCONMS	UF10
AWE 3060ML	0.03-0.07	6	65	20	6	●
3080ML	0.03-0.09	8	75	20	8	●
3100ML	0.03-0.10	10	80	25	10	●
3120ML	0.03-0.12	12	95	30	12	●
3140ML	0.03-0.12	14	110	35	14	●
3160ML	0.05-0.14	16	110	40	16	●
3180ML	0.05-0.15	18	125	45	18	●
3200ML	0.05-0.15	20	125	45	20	●

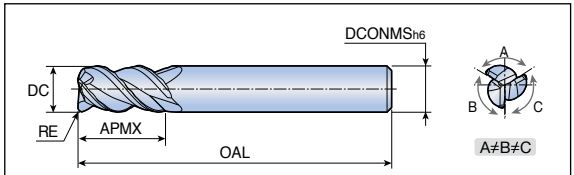
●: Standard items

AWE 3...ML-R

ALUMILL

3 flute wave long corner radius





• Wave cutting edge

3 | H·A 50° | Wave | Cutting Condition F134

RE ±0.02

DC	Tolerance
All	0 - -0.012

	Designation	Feed (mm/tooth)	Dimension (mm)				Grade
			DC	OAL	APMX	DCONMS	UF10
AWE	3060ML-R0.5	0.03-0.07	6	65	20	6	●
	3080ML-R0.5	0.03-0.09	8	75	20	8	●
	3100ML-R1.0	0.03-0.10	10	80	25	10	●
	3120ML-R1.0	0.03-0.12	12	95	30	12	●

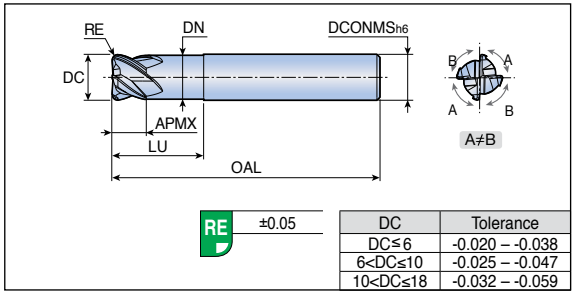
●: Standard items

CRF 4

CERAMICSFEED

4 flute, Ceramic end mills





4 | H·A 40° | Cutting Condition F134-136

RE ±0.05

DC	Tolerance
DC≤6	-0.020 – -0.038
6<DC≤10	-0.025 – -0.047
10<DC≤18	-0.032 – -0.059

	Designation	Feed (mm/tooth)	Dimension (mm)							Grade
			DC	RE	OAL	APMX	LU	DN	DCONMS	TC3030
CRF	4060 050 120	0.02-0.03	6	0.5	50	4.5	12	5.8	6	●
	4080 100 160	0.02-0.03	8	1.0	57	6.0	16	7.7	8	●
	4100 100 200	0.02-0.04	10	1.0	63	7.5	20	9.6	10	●
	4120 150 240	0.03-0.05	12	1.5	70	9.0	24	11.5	12	●
	4160 200 320	0.03-0.05	16	2.0	83	12.0	32	15.5	16	●

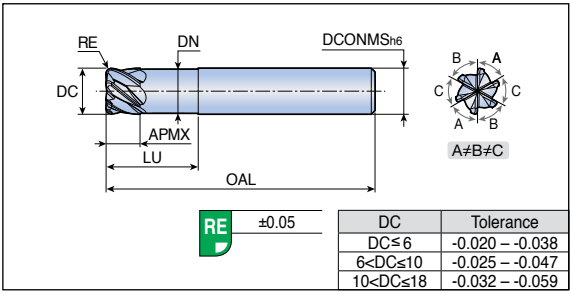
●: Standard items

CRF 6

CERAMICSFEED

6 flute, Ceramic end mills





6 | H·A 40° | Cutting Condition F134-136

RE ±0.05

DC	Tolerance
DC≤6	-0.020 – -0.038
6<DC≤10	-0.025 – -0.047
10<DC≤18	-0.032 – -0.059

Designation	Feed (mm/tooth)	Dimension (mm)							Grade
		DC	RE	OAL	APMX	LU	DN	DCONMS	TC3030
CRF 6060 050 120	0.02-0.03	6	0.5	50	4.5	12	5.8	6	●
6080 100 160	0.02-0.03	8	1.0	57	6.0	16	7.7	8	●
6100 100 200	0.02-0.04	10	1.0	63	7.5	20	9.6	10	●
6120 150 240	0.03-0.05	12	1.5	70	9.0	24	11.5	12	●
6160 200 320	0.03-0.05	16	2.0	83	12.0	32	15.5	16	●

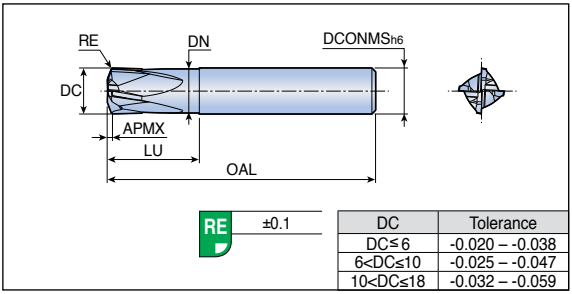
●: Standard items

CRH 4

CERAMICSFEED

4 flute, Ceramic end mills for high feed milling





4 | H·A 10° | Cutting Condition F134-136

RE ±0.1

DC	Tolerance
DC≤6	-0.020 – -0.038
6<DC≤10	-0.025 – -0.047
10<DC≤18	-0.032 – -0.059

Designation	Feed (mm/tooth)	Dimension (mm)							Grade
		DC	RE	OAL	APMX	LU	DN	DCONMS	TC3030
CRH 4060	0.1-0.15	6	0.7	50	0.55	12	5.8	6	●
4080	0.1-0.2	8	0.9	57	0.75	16	7.7	8	●
4100	0.1-0.2	10	1.0	63	0.85	20	9.6	10	●
4120	0.1-0.3	12	1.4	70	1.15	24	11.5	12	●
4160	0.1-0.3	16	1.8	83	1.55	32	15.5	16	●

• RE: Program corner R

●: Standard items

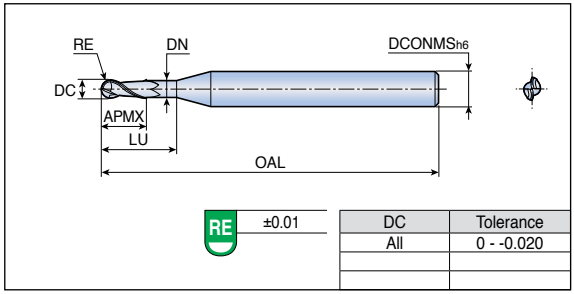
TaeguTec

DMB 2

DIA MILL

2 flute miniature ball





2 | H·A 30° | Cutting Condition F134

RE ±0.01

DC	Tolerance
All	0 - -0.020

Designation		Dimension (mm)							Grade
		DC	RE	OAL	APMX	LU	DN	DCONMS	TTD620
DMB	**2006-0.6x3.0**	0.6	0.3	40	0.6	3.0	0.55	3	●
	2010-1.0x5.0	1.0	0.5	40	1.0	5.0	0.95	3	●
	2010-1.0x8.5	1.0	0.5	40	1.0	8.5	0.95	3	●
	2015-1.5x7.5	1.5	0.75	50	1.5	7.5	1.4	3	●
	2015-1.5x12.0	1.5	0.75	50	1.5	12.0	1.4	3	●
	2020-2.2x10.0	2.0	1.0	60	2.2	10.0	1.9	3	●
	2020-2.2x16.0	2.0	1.0	60	2.2	16.0	1.9	3	●

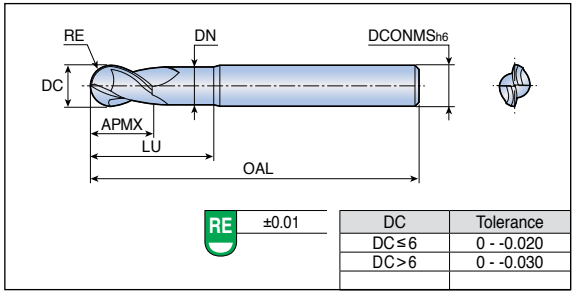
●: Standard items

DEB 2...S

DIA MILL

2 flute short ball





2 | H·A 30° | Cutting Condition F134

RE ±0.01

DC	Tolerance
DC≤6	0 - -0.020
DC>6	0 - -0.030

Designation		Dimension (mm)							Grade
		DC	RE	OAL	APMX	LU	DN	DCONMS	TTD620
DEB	**2030S**	3	1.5	60	4.5	6.5	2.8	6	●
	2040S	4	2.0	65	6.0	8.0	3.7	6	●
	2060S	6	3.0	75	9.0	12.0	5.6	6	●
	2120S	12	6.0	90	18.0	36.0	11.4	12	●

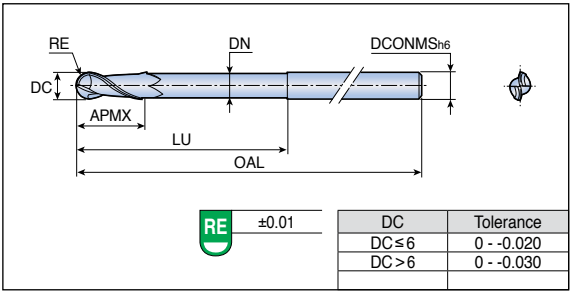
●: Standard items

DEB 2...L

DIA MILL

2 flute long neck ball





2 | H·A 30° | Cutting Condition F134

RE ±0.01

DC	Tolerance
DC≤6	0 - -0.020
DC>6	0 - -0.030

Designation	Dimension (mm)							Grade
	DC	RE	OAL	APMX	LU	DN	DCONMS	TTD620
DEB 2030L-4	3	1.5	80	15	25	2.9	4	●
2040L-4	4	2.0	80	20	30	3.9	4	●
2050L	5	2.5	100	30	50	4.9	6	●
2060L	6	3.0	100	30	50	5.5	6	●
2080L	8	4.0	110	40	60	7.5	8	●
2120L	12	6.0	130	55	75	11.5	12	●

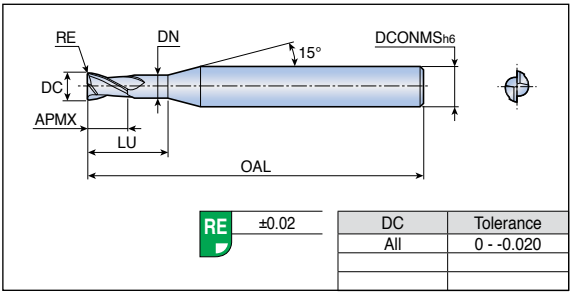
●: Standard items

DMR 2

DIA MILL

2 flute miniature corner radius





2 | H·A 30° | Cutting Condition F134

RE ±0.02

DC	Tolerance
All	0 - -0.020

Designation	Feed (mm/tooth)	Dimension (mm)							Grade
		DC	RE	OAL	APMX	LU	DN	DCONMS	TTD620
DMR 2006-0.9x3.0	0.006-0.010	0.6	0.05	40	0.9	3.0	0.55	3	●
2008-1.2x4.0	0.008-0.015	0.8	0.05	40	1.2	4.0	0.75	3	●
2010-1.5x5.0	0.010-0.020	1.0	0.1	40	1.5	5.0	0.95	3	●
2010-1.5x8.5	0.010-0.020	1.0	0.1	40	1.5	8.5	0.95	3	●
2012-1.8x6.0	0.010-0.025	1.2	0.1	50	1.8	6.0	1.15	3	●
2015-2.2x7.5	0.015-0.035	1.5	0.15	50	2.2	7.5	1.4	3	●
2015-2.2x12.0	0.015-0.030	1.5	0.15	50	2.2	12.0	1.4	3	●
2020-2.2x10.0	0.015-0.040	2.0	0.15	60	2.2	10.0	1.9	3	●
2020-2.2x16.0	0.015-0.035	2.0	0.15	60	2.2	16.0	1.9	3	●

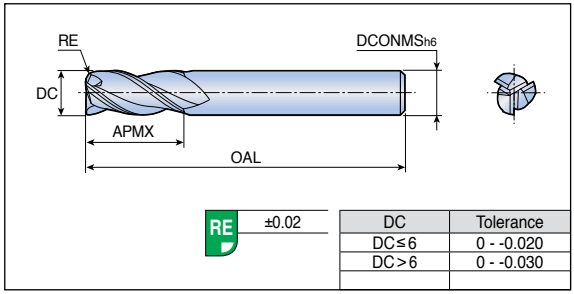
●: Standard items

DER 3...S

DIA MILL

3 flute short corner radius





3 | H·A 40° | Cutting Condition F134

RE ±0.02

DC	Tolerance
DC≤6	0 - -0.020
DC>6	0 - -0.030

Designation	Feed (mm/tooth)	Dimension (mm)					Grade
		DC	RE	OAL	APMX	DCONMS	TTD620
DER 3030S-3	0.025-0.050	3	0.15	40	12	3	●
3040S-4	0.040-0.060	4	0.2	50	14	4	●
3050S-5	0.050-0.080	5	0.3	50	16	5	●
3060S	0.060-0.090	6	0.3	65	20	6	●
3080S	0.070-0.100	8	0.5	65	20	8	●
3100S	0.080-0.130	10	0.5	75	25	10	●
3120S	0.100-0.150	12	0.5	75	25	12	●

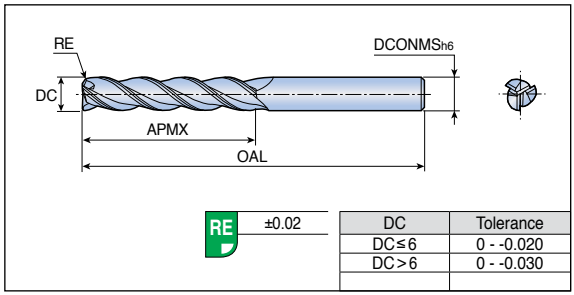
●: Standard items

DER 3...L

DIA MILL

3 flute long corner radius





3 | H·A 40° | Cutting Condition F134

RE ±0.02

DC	Tolerance
DC≤6	0 - -0.020
DC>6	0 - -0.030

Designation	Feed (mm/tooth)	Dimension (mm)					Grade
		DC	RE	OAL	APMX	DCONMS	TTD620
DER 3040L-4	0.03-0.05	4	0.2	60	30	4	●
3050L-5	0.04-0.07	5	0.3	70	35	5	●
3060L	0.05-0.08	6	0.3	100	40	6	●
3080L	0.06-0.09	8	0.5	100	40	8	●
3100L	0.07-0.12	10	0.5	100	40	10	●
3120L	0.09-0.14	12	0.5	100	45	12	●

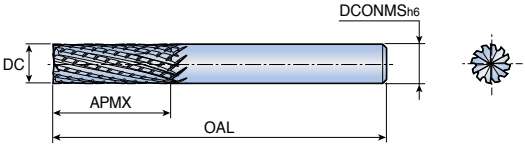
●: Standard items

RRFE

DIA MILL

Roughing for composite material (Chip splitter)





DC	Tolerance
All	-0.02 - -0.08

6-12 | H·A 15° | Cutting Condition F137

Designation		Feed (mm/tooth)	Dimension (mm)					Grade
			DC	NOF	OAL	APMX	DCONMS	TTD610
RRFE	**040**	0.01-0.02	4	6	50	12	4	●
	060	0.01-0.02	6	8	65	18	6	●
	080	0.01-0.03	8	10	75	24	8	●
	100	0.02-0.04	10	12	85	30	10	●
	120	0.02-0.05	12	12	100	36	12	●

• NOF: Number of flutes

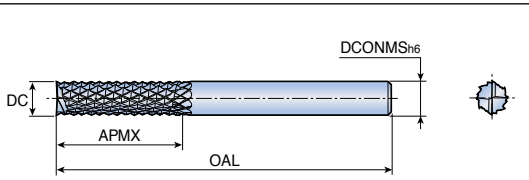
●: Standard items

RCFE

DIA MILL

Roughing for composite material (Multi-flute)





DC	Tolerance
All	-0.02 - -0.08

H·A 28° | Cutting Condition F137

Designation		Feed (mm/rev)	Dimension (mm)				Grade
			DC	OAL	APMX	DCONMS	TTD610
RCFE	**040**	0.03-0.06	4	50	12	4	●
	060	0.07-0.15	6	65	18	6	●
	080	0.10-0.20	8	75	24	8	●
	100	0.15-0.30	10	85	30	10	●
	120	0.20-0.40	12	100	36	12	●

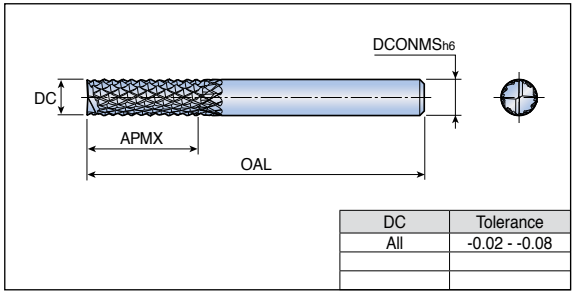
●: Standard items

RCME

DIA MILL

Medium to finishing for composite materials (Multi-flute)





DC	Tolerance
All	-0.02 - -0.08

H·A 28°

Cutting Condition F137

Designation		Feed (mm/rev)	Dimension (mm)				Grade
			DC	OAL	APMX	DCONMS	TTD610
RCME	**040**	0.03-0.06	4	50	12	4	●
	060	0.07-0.15	6	65	18	6	●
	080	0.10-0.20	8	75	24	8	●
	100	0.15-0.30	10	85	30	10	●
	120	0.20-0.40	12	100	36	12	●

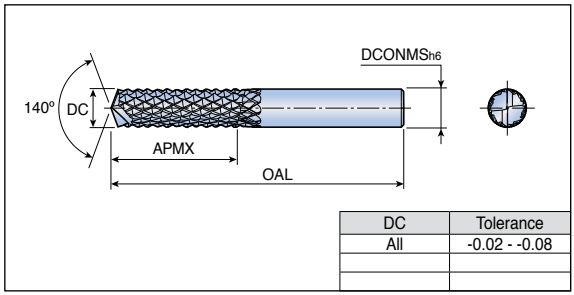
●: Standard items

RCDE

DIA MILL

Medium to finishing for composite materials (Cutting edge for drilling + multi-flute)





DC	Tolerance
All	-0.02 - -0.08

H·A 28°

Cutting Condition F137

Designation		Feed (mm/rev)	Dimension (mm)				Grade
			DC	OAL	APMX	DCONMS	TTD610
RCDE	**040**	0.03-0.06	4	50	12	4	●
	060	0.07-0.15	6	65	18	6	●
	080	0.10-0.20	8	75	24	8	●
	100	0.15-0.30	10	85	30	10	●
	120	0.20-0.40	12	100	36	12	●

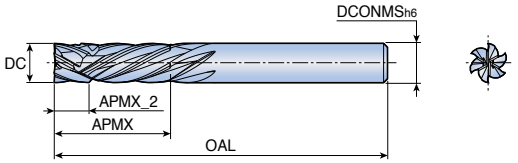
●: Standard items

RCOM

DIA MILL

4 and 6 flute for finishing of composite materials (Left and right hand helix type)





DC	Tolerance
All	-0.02 - -0.04

4,6 | H·A 30° | Cutting Condition F137

Designation		Feed (mm/tooth)	Dimension (mm)						Grade
			DC	NOF	OAL	APMX	APMX_2	DCONMS	TTD610
RCOM	**4060**	0.02-0.04	6	4	65	18	6.7	6	●
	4080	0.02-0.05	8	4	75	24	9.2	8	●
	6100	0.03-0.06	10	6	85	30	7.9	10	●
	6120	0.04-0.08	12	6	100	36	9.2	12	●

• NOF: Number of flutes

●: Standard items

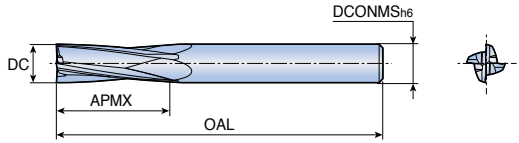
• Notice: For best machining performance, the end mill's intersection point(APMX_2) should be positioned at the center of the workpiece thickness.

RDCF

DIA MILL

4-8 flute for finishing of composite materials (Low helix angle)





DC	Tolerance
All	-0.02 - -0.04

4-8 | H·A 10° | Cutting Condition F137

Designation		Feed (mm/tooth)	Dimension (mm)					Grade
			DC	NOF	OAL	APMX	DCONMS	TTD610
RDCF	**4040**	0.01-0.03	4	4	50	12	4	●
	6040	0.01-0.03	4	6	50	12	4	●
	4060	0.02-0.04	6	4	65	18	6	●
	6060	0.02-0.04	6	6	65	18	6	●
	4080	0.03-0.05	8	4	75	24	8	●
	6080	0.03-0.05	8	6	75	24	8	●
	4100	0.04-0.06	10	4	85	30	10	●
	8100	0.04-0.06	10	8	85	30	10	●
	4120	0.04-0.08	12	4	100	36	12	●
	8120	0.04-0.08	12	8	100	36	12	●

• NOF: Number of flutes

●: Standard items

TaeguTec Member IMC Group

Recommended Cutting Conditions

Machining data for solid end mill

ISO	Material		Condition	Tensile strength (N/mm^2)	Hardness HB	Material No.
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1
		>=0.25%C	Annealed	650	190	2
		<0.55%C	Quenched and tempered	850	250	3
		>=0.55%C	Annealed	750	220	4
			Quenched and tempered	1000	300	5
	Low alloy steel and cast steel (less than 5% of alloying elements)		Annealed	600	200	6
			Quenched and tempered	930	275	7
				1000	300	8
				1200	350	9
	High alloy steel, cast steel and tool steel		Annealed	680	200	10
			Quenched and tempered	1100	325	11
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12
			Martensitic	820	240	13
			Austenitic	600	180	14
K	Gray cast iron (GG)		Ferritic		160	15
			Pearlitic		250	16
	Cast iron nodular (GGG)		Ferritic		180	17
			Pearlitic		260	18
	Malleable cast iron		Ferritic		130	19
			Pearlitic		230	20
N	Aluminum - Wrought alloy		Not cureable		60	21
			Cured		100	22
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23
			Cured		90	24
		>12% Si	High temp.		130	25
	Copper alloys	>1% Pb	Free cutting		110	26
			Brass		90	27
			Electrolitic copper		100	28
	Non-metallic		Duroplastics, graphite			29
			Hard rubber			30
S	High temp. alloys	Fe based	Annealed		200	31
			Cured		280	32
		Ni or Co based	Annealed		250	33
			Cured		350	34
			Cast		320	35
	Titanium, Ti alloys			Rm 400		36
			Alpha+beta alloys cured	Rm 1050		37
H	Hardened steel		Hardened		55HRC	38
			Hardened		60HRC	39
	Chilled cast iron		Cast		400	40
	Cast iron nodular		Hardened		55HRC	41

• For more information of material groups, see the materials & grades "material conversion table"

Steel Stainless steel Cast iron Nonferrous High temp. alloys Hardened steel

Recommended Cutting Conditions

Machining data for solid end mill

Cutting speed Vc(m/min)						
CBN	Coated				Uncoated	Ceramic
TB7015	TT5505	TT5515	TT5525	TT5543	UF10N/UF10	TC3030
	260-300	260-280	210-220	170-200	140-200	
	200-250	200-230	160-180	140-170	120-160	
	160-230	160-220	130-180	120-150	100-150	
	160-230	160-220	130-180	100-140	100-140	
	140-200	140-180	110-140	90-130	90-130	
	160-230	160-220	130-180	100-150	110-150	
	120-200	120-180	100-140	90-130	80-130	
	140-200	130-180	100-140	90-130	90-130	
	140-200	140-180	110-140	90-130	100-130	
	140-200	130-180	100-140	90-130	90-130	
	80-150	70-120	60-100	50-90	50-80	
		80-160	60-130	50-110	60-110	
		60-150	50-120	40-100	40-100	
		60-120	50-100	40-80	40-80	
	100-300	80-260	60-210	50-180	60-180	
	130-280	130-240	100-190	100-170	90-170	
	150-280	150-270	120-220	110-200	100-200	
	90-280	90-270	70-220	110-200	60-200	
	150-280	150-270	120-220	110-200	100-200	
	140-250	140-240	110-190	100-180	100-170	
					800-900	
					700-800	
					800-900	
					750-850	
					400-450	
					500-550	
					500-550	
					350-380	
	20-40	20-40	20-30	20-30	10-20	
	20-30	20-30	20-30	20-30	10-20	
	20-30	20-30	20-30	20-30	20-50	300-1000
	20-30	20-30	20-30	20-30	20-50	300-1000
	30-80	30-70	20-60	20-60	20-50	300-1000
		30-70	20-60	20-60	20-30	
		30-70	20-60	20-60	20-30	
100-210	30-60				40-60	
90-200	30-40				20-30	
120-200	70-90	60-80			65-75	
120-200	30-60	30-50			40-45	

Recommended Cutting Conditions

CERAMICSFEED

Machining data for ceramic end mill

CRF 4 teeth & 6 teeth

(Unit: mm)

Diameter	Cutting speed (m/min)	Feed (mm/tooth)	Shouldering, profiling		Slotting
			ap	ae	ae
Ø6	300-1000	0.02-0.03	-0.6xD	-0.1xD	-0.05xD
Ø8	300-1000	0.02-0.03	-0.6xD	-0.1xD	-0.05xD
Ø10	300-1000	0.02-0.04	-0.6xD	-0.1xD	-0.05xD
Ø12	300-1000	0.03-0.05	-0.6xD	-0.1xD	-0.05xD
Ø16	300-1000	0.03-0.05	-0.6xD	-0.1xD	-0.05xD

• ae must not exceed a maximum 1 mm ap: axial direction DOC ae: radial direction DOC

• Apply a 30% reduction in feed during slotting, ramping (less 2.5°)

CRH 4 teeth

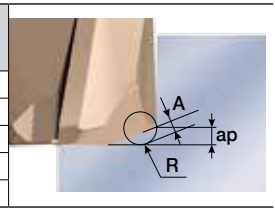
(Unit: mm)

Diameter	Cutting speed (m/min)	Feed (mm/tooth)	Shouldering, profiling	
			ap	ae
Ø6	300-1000	0.1-0.15	-0.05xD	-0.6xD
Ø8	300-1000	0.1-0.2	-0.05xD	-0.6xD
Ø10	300-1000	0.1-0.2	-0.05xD	-0.6xD
Ø12	300-1000	0.1-0.3	-0.05xD	-0.6xD
Ø16	300-1000	0.1-0.3	-0.05xD	-0.6xD

• Apply a 30% reduction in feed during ramping (less 2.5°) ap: axial direction DOC ae: radial direction DOC

Programming tip - CRH

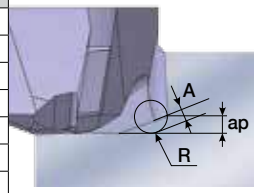
Diameter (CRH 4 teeth)	R (Program)	A Un-machined material thickness
Ø6	0.7	0.35
Ø8	0.9	0.47
Ø10	1.0	0.50
Ø12	1.4	0.70
Ø16	1.8	0.95



SOLIDFEED

Programming tip - HFM 2 / HFM 4

Designation	Diameter	R (Program)	A (Un-machined)	ap (Max)
HFM 2040	Ø4	0.38	0.25	0.3
HFM 2060	Ø6	0.65	0.43	0.5
HFM 2080	Ø8	0.87	0.57	0.75
HFM 2010	Ø10	1.09	0.71	1
HFM 2012	Ø12	1.3	0.86	1.1
HFM 4060	Ø6	0.59	0.38	0.5
HFM 4080	Ø8	0.78	0.51	0.7
HFM 4010	Ø10	0.85	0.55	0.75
HFM 4012	Ø12	1.17	0.77	1.05



Recommended Cutting Conditions

Machining data for composite material

Grade: TTD610

Material		Cutting Speed Vc(m/min)					
		RRFE		RCFE		RCDE	
		Shouldering	Slotting	Shouldering	Slotting	Shouldering	Slotting
CFRP	CFRP	100-300	50-120	100-300	50-120	80-250	50-120
	Honeycomb	150-250	100-200	150-250	100-200	120-200	100-200
GFRP	GFRP	50-150	30-70	50-150	30-70	50-130	30-70
	Honeycomb	150-250	100-200	150-250	100-200	120-200	100-200

Material		Cutting Speed Vc(m/min)					
		RCME		RCOM		RDCF	
		Shouldering	Slotting	Shouldering	Slotting	Shouldering	Slotting
CFRP	CFRP	80-250	50-120	50-200	50-120	100-300	50-120
	Honeycomb	120-200	100-200	-	-	-	-
GFRP	GFRP	50-130	30-70	50-100	30-70	50-150	30-70
	Honeycomb	120-200	100-200	-	-	-	-

Material	RCDE & H-Drill				
	Drilling				
	Cutting speed Vc (m/min)	Drill diameter (mm) vs. Feed (mm/rev)			
		Ø3.0-Ø6.0	Ø6.1-Ø8.0	Ø8.1-Ø10.0	Ø10.1-Ø12.7
CFRP	50-150	0.02-0.07	0.03-0.08	0.03-0.08	0.04-0.10
GFRP	40-120	0.02-0.07	0.03-0.08	0.03-0.08	0.04-0.10

Recommended Cutting Conditions

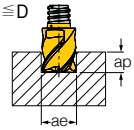
MAXI-RUSH

Machining data for MAXI-RUSH

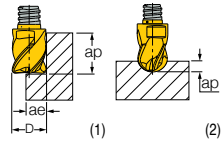
fz for Square & Round heads

(mm/tooth)

Slotting
ap≦0.5D
ae≦D



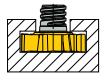
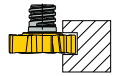
Side Milling
ae≦0.5D
(1) ap≦D
(2) ap≦0.05D



D (mm)	fz (mm/tooth)	D (mm)	fz (mm/tooth)
6	0.027-0.05	6	0.027-0.06
8	0.032-0.07	8	0.032-0.08
10	0.034-0.08	10	0.034-0.09
12	0.036-0.10	12	0.036-0.11
16	0.050-0.12	16	0.05 - 0.13
20	0.052-0.14	20	0.052-0.15
25	0.062-0.15	25	0.062-0.17

fz for Slotting heads

(mm/tooth)

ISO		
P	0.025-0.12	0.035-0.15
M	0.025-0.10	0.025-0.12
K	0.025-0.15	0.025-0.17

Thread Size	Key	Clamping Torque (N.m)
S05	MX KEY-S05	7
S06	MX KEY-S06	10
S08	MX KEY-S08	15
S10	MX KEY-S10	28
S12	MX KEY-S12	28
S15	MX KEY-S15	40

Recommended Cutting Speed

ISO	Material No.	Hardness HB	Vc m/min
P	1	125	220-240
	2	190	170-200
	3-6	200	140-160
	7-8	300	110-130
	9-11	200	100-130
M	12-13	240	90-150
	14	180	70-100
K	15	180	70-240
	16	260	110-220
	17	170	130-250
	19	130	130-230
	20	230	100-200
N	21-24	90	600-700
S	33-35	350	10-20
	36-37	-	30-50
H	38	HRC55	30-40
	39	HRC60	25-30

High feed milling - MXFX Only

ISO	Material No.	Depth of cut (ap)	Width of cut (ae)	fz (mm/tooth) vs. Tool Diameter D(mm)					
				Ø8	Ø10	Ø12	Ø16	Ø20	Ø25
P	1	0.045xD	0.7xD	0.50	0.60	0.70	0.80	0.95	1.05
	2	0.045xD	0.7xD	0.50	0.60	0.70	0.80	0.95	1.05
	3	0.045xD	0.7xD	0.50	0.60	0.70	0.80	0.95	1.05
	4	0.045xD	0.7xD	0.50	0.60	0.70	0.80	0.95	1.05
	5	0.045xD	0.7xD	0.45	0.55	0.60	0.70	0.80	0.90
	6	0.045xD	0.7xD	0.35	0.45	0.50	0.60	0.70	0.80
	7	0.045xD	0.7xD	0.35	0.45	0.50	0.60	0.70	0.80
	8	0.045xD	0.7xD	0.35	0.40	0.45	0.55	0.65	0.75
	9	0.045xD	0.7xD	0.35	0.40	0.45	0.55	0.65	0.75
	10	0.04xD	0.6xD	0.30	0.35	0.40	0.50	0.6	0.70
	11	0.04xD	0.6xD	0.30	0.35	0.40	0.45	0.55	0.65
M	12-14	0.04xD	0.6xD	0.35	0.40	0.45	0.55	0.65	0.75
K	15-16	Apmax	0.7xD	0.50	0.55	0.65	0.75	0.85	0.95
	17-20	Apmax	0.7xD	0.40	0.50	0.55	0.65	0.75	0.85
H	38.1	0.035xD	0.45xD	0.25	0.30	0.35	0.45	0.50	0.60
	38.2	0.03xD	0.3xD	0.20	0.25	0.35	0.40	0.50	0.55
	39	0.02xD	0.25xD	0.15	0.20	0.20	0.25	0.25	0.30

Wrench

Appearance	Designation	Connection thread size	Torque (N.m)	Head
	MX KEY-S05	S05	7	Square Ball Round Drilling Chamfering Counter boring
	MX KEY-S06	S06	10	
	MX KEY-S08	S08	15	
	MX KEY-S10	S10	28	
	MX KEY-S12	S12	28	
	MX KEY-S15	S15	40	
	MX SKEY-S06	S06	10	TST-3S06
	MX SKEY-S08	S08	15	TST-4S08
	MX SKEY-T40L	S08	15	TST-6S10 TTB
		S10	28	
	MX SKEY-T20	S05	7	
		S06	10	
	MX SKEY-T25	S06	10	
	MX SKEY-T30L	S08	15	
	MX SKEY-T50L	S08	15	
		S10	28	

• Wrench should be ordered separately

Torque wrench

Appearance		Designation	Connection	Head designation	Torque (N.m)
Handle		TORQUE WRENCH 5-50Nm 9X12	-	-	-
Open wrench for cylindrical head		MX WRENCH 6-05	S05	MXED, MXEE MXRD, MXBE MXDP, MXCA	7
		MX WRENCH 8-06	S06		10
		MX WRENCH 10-08	S08		15
		MX WRENCH 13-10	S10		28
		MX WRENCH 16-12	S12		28
		MX WRENCH 20-15	S15		40
Open wrench for 2 flutes head		MX WRENCH 4E-05	S05	MXRB,MXFX MXBB MXCP, MXGC MXCW, MXCR	7
		MX WRENCH 5E-06	S06		10
		MX WRENCH 7E-08	S08		15
		MX WRENCH 8E-10	S10		28
		MX WRENCH 9E-12	S12		28
90° adapter for torx bit		INSERT TOOL 9X12mm	-	-	-
Torx bit socket		BIT SOCKET T20 DRIVE	S05, S06	TTB TST277	7, 10
		BIT SOCKET T25 DRIVE	S06		10
		BIT SOCKET T30 DRIVE	S08		15
		BIT SOCKET T40 DRIVE	S08, S10		15, 28
		BIT SOCKET T50 DRIVE	S08, S10		15, 28

• Wrench should be ordered separately

INDUSTRY 4.0

TOOLING SYSTEM



TOOLING SYSTEM

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Guide to Icons



➤ Run-out



➤ Surface Hardness



➤ Balance Grade



➤ Taper Shank Grade



➤ Surface Finish Grade



➤ Technical Data Page



➤ ER Collet Page



➤ TSK Collet Page



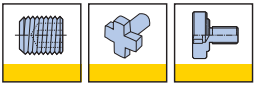
➤ ST / THC Collet Page



➤ Pull Stud Page



➤ Preset Screw Page



➤ Lock Screw Page



➤ ER 32 SRF Page



➤ Nut Page



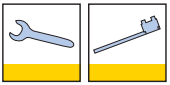
➤ Tap Adapter Page



➤ Cooling Tube Page



➤ Tube Wrench Page



➤ Wrench Page



➤ Driving Ring Page



➤ Induction Heating Unit Page



➤ Thermal Heating Unit Page



* For non-stock items: Supply condition is subject to availability.
If not available in stock then MOQ (Minimum order qty) will be applicable.

Tool Selection Guide

Tooling system

Milling chuck

- DIN69871 G15
- HSK G39
- BT MAS-403 G66
- DIN2080 G87





Collet (NCSR) G151-G152



ST shank G109-G113



Collet (ER) G137-G145



GTIN collet G159-G160

Collet chuck

- DIN69871 G11-G12
- HSK G33-G37
- BT MAS-403 G61-G63
- DIN2080 G86
- C-ADAPTER G97-G98
- ST shank G109-G113
- MT shank G124





Collet (ER) G137-G145



T-SHRINK Collet G154-G158



GTIN collet G159-G160

TSK collet chuck

- DIN69871 G13
- HSK G38
- BT MAS-403 G64





TSK collet G146-G148

TSHRINK chuck

- DIN69871 G19
- HSK G42-G44
- BT MAS-403 G70
- C-ADAPTER G105



- DIN69871 G20
- HSK G45-G47
- BT MAS-403 G71
- ST shank G121



THYCHUCK chuck

- DIN69871 G21
- HSK G48-G49
- BT MAS-403 G72-G73



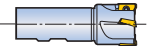


THC collet G149-G150

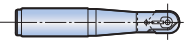


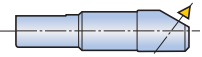


























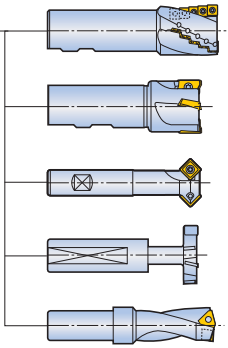
Tool Selection Guide

Tooling system

End mill holder

- DIN69871 G16-G18
- HSK G40-G41
- BT MAS-403 G67-G69
- DIN2080 G88
- C-ADAPTER G99-G101

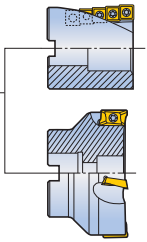




Face mill / Shell end mill arbor

- DIN69871 G22-G23, G25
- HSK G50-G52, G54
- BT MAS-403 G75-G77, G79
- DIN2080 G89-G90
- C-ADAPTER G102, G104

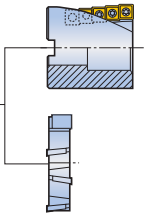




Combi face mill / Combi shell end mill arbor

- DIN69871 G24
- HSK G53
- BT MAS-403 G78
- DIN2080 G91
- C-ADAPTER G103

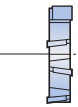




Slotting cutter arbor

- DIN69871 G26
- BT MAS-403 G74

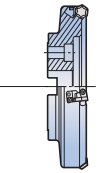




Centering plug

- DIN2080 G94





Tool Selection Guide

Tooling system

Adapter

· DIN69871 G29
· BT MAS-403 G81



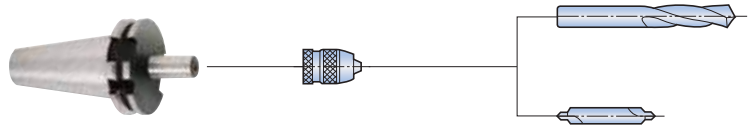
Morse taper adapter

· DIN69871 G27-G28
· HSK G55
· BT MAS-403 G80-G81
· DIN2080 G92-G93



Drill chuck arbor

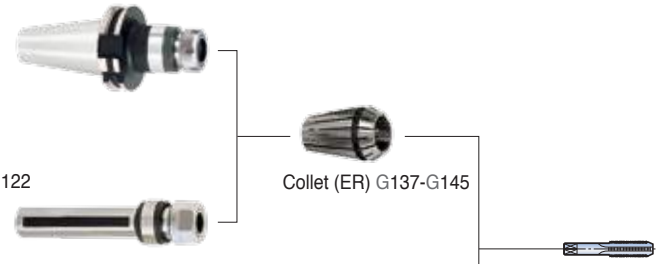
· DIN69871 G29
· BT MAS-403 G82
· DIN2080 G94



Tap chuck (GTI)

· DIN69871 G14
· BT MAS-403 G65

· GTI ER collet chuck G122



· DIN69871 G14
· BT MAS-403 G65
· MTA G124

Tap adapter G161

ADVANCE MACHINING
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Tool Selection Guide

Tooling system

GFI floating reamer chuck (GFI)

· ST shank G123



Collet (ER) G137-G145

TFLEXTEC

· DIN69871 G30
· HSK G56-G57
· BT MAS-403 G83
· C-ADAPTER G106
· ST shank G114-G117



Adapter G118-G120

Blank

· HSK G58
· C-ADAPTER G107



GREEN Typhoon

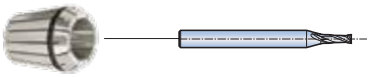
· ER shank G126
· BT MAS-403 G127
· HSK G128
· C-ADAPTER G129
· ST shank G130



HPC Typhoon

· ER shank G131
· BT MAS-403 G132
· HSK G133
· ST shank G134





Collet (ER11 SPR EX..AA)
G138-139, G143

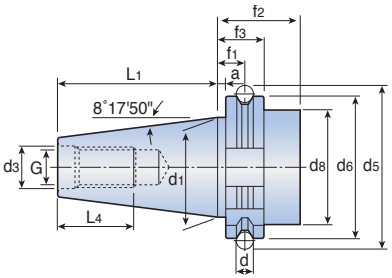
DIN69871

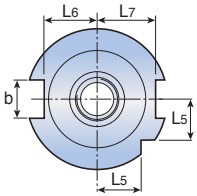


DIN69871 Form A/AD/B/ADB

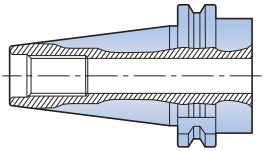
Standard toolholder

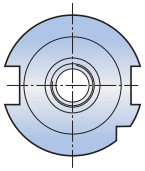
Type “A”



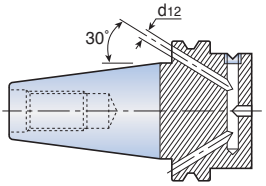


Type “AD”
Coolant hole

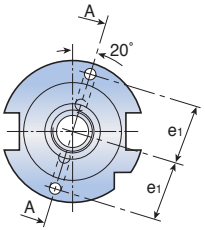




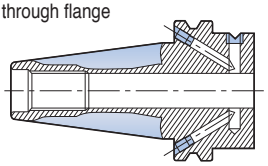
Type “B”
Coolant through flange



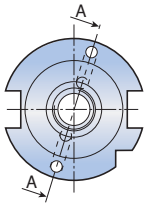
A-A



Type “ADB”
Coolant hole or coolant through flange



A-A



Shank	a ±0.1	b (H12)	d	d1	G	d3 (H7)	d5 ±0.05	d6	d8max	f1 ±0.1
30	3.2	16.1	7	31.75	M12	13	59.30	50.00	45	11.1
40	3.2	16.1	7	44.45	M16	17	72.30	63.55	50	11.1
50	3.2	25.7	7	69.85	M24	25	107.25	97.50	80	11.1

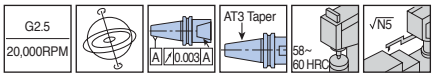
Shank	f2min	f3 -0.1	L1 -0.3	L4min	L5 -0.3	L6 -0.4	L7 -0.4	e1 ±0.1	d12	Taper AT3
30	35	19.1	47.80	24	15.0	16.4	19.0	21	4	0.002
40	35	19.1	68.40	32	18.5	22.8	25.0	27	4	0.003
50	35	19.1	101.75	47	30.0	35.5	37.7	42	6	0.004

* For non-stock items: Supply condition is subject to availability.
If not available in stock then MOQ (Minimum order qty) will be applicable.

DIN69871-ER

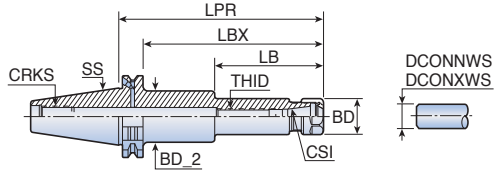
ER collet chucks





DIN69871 form ADB

DIN6499



Designation		Dimension (mm)										
		SS	CSI	DCONNWS	DCONXWS	BD	BD_2	LPR	LBX	LB	CRKS	THID
DIN69871 30	**ER 16x63[1]**	30	ER16	0.5	10.0	28	-	63	43.9	28	M12	M10
DIN69871 40	**ER 16x63**	40	ER16	0.5	10.0	28	-	63	43.9	-	M16	M10
	ER 16x100	40	ER16	0.5	10.0	28	-	100	80.9	-	M16	M10
	ER 16x160[1]	40	ER16	0.5	10.0	28	40	160	140.9	85	M16	M10
	ER 20x63	40	ER20	1.0	13.0	34	-	63	43.9	-	M16	M12
	ER 20x100	40	ER20	1.0	13.0	34	-	100	80.9	-	M16	M12
	ER 20x160[1]	40	ER20	1.0	13.0	34	44	160	140.9	19	M16	M12
DIN69871 50	**ER 16x100[1]**	50	ER16	0.5	10.0	28	-	100	80.9	-	M24	M10
	ER 16x160[1]	50	ER16	0.5	10.0	28	40	160	140.9	85	M24	M10
	ER 16x200[1]	50	ER16	0.5	10.0	28	40	200	180.9	110	M24	M10
	ER 20x100[1]	50	ER20	1.0	13.0	34	-	100	80.9	-	M24	M12
	ER 20x160[1]	50	ER20	1.0	13.0	34	45	160	140.9	86	M24	M12

G137-G145 G163-G164 G164-G166 G167 G170

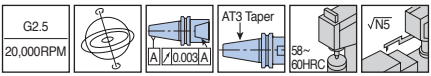
- Add B for coolant through flange
- [1] Balance to G6.3 at 12,000RPM

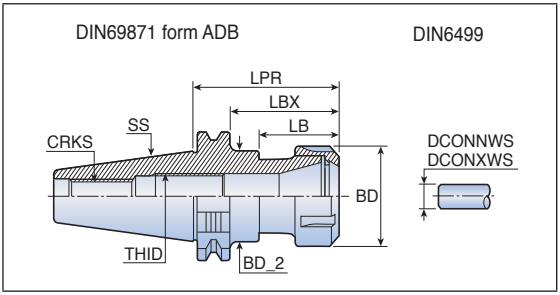
ADVANCE MACHINING
TaeguTec Industry 4.0

DIN69871-ER

ER collet chucks







Designation	Dimension (mm)										
	SS	CSI	DCONNWS	DCONXWS	BD	BD_2	LPR	LBX	LB	CRKS	THID
DIN69871 30 ER 32x65[1]	30	ER32	2.0	20.0	50	40.4	65	45.9	32.0	M12	M18x1.5
DIN69871 40 ER 25x65	40	ER25	1.0	16.0	42	32.4	65	45.9	28.0	M16	M16x2
ER 25x100	40	ER25	1.0	16.0	42	-	100	80.9	-	M16	M16x2
ER 25x150	40	ER25	1.0	16.0	42	-	150	130.9	-	M16	M16x2
ER 32x65	40	ER32	2.0	20.0	50	40.4	65	45.9	32.0	M16	M22x1.5
ER 32x100	40	ER32	2.0	20.0	50	49.0	100	80.9	35.0	M16	M22x1.5
ER 32x150	40	ER32	2.0	20.0	50	49.0	150	130.9	35.0	M16	M22x1.5
ER 40x70	40	ER40	3.0	26.0	63	50.4	70	50.9	32.0	M16	M28x1.5
ER 40x100	40	ER40	3.0	26.0	63	50.4	100	80.9	32.0	M16	M28x1.5
DIN69871 50 ER 25x100[1]	50	ER25	1.0	16.0	42	-	100	80.9	-	M24	M16x2
ER 25x150[1]	50	ER25	1.0	16.0	42	50.0	150	130.9	80.9	M24	M16x2
ER 25x200[1]	50	ER25	1.0	16.0	42	55.0	200	180.9	85.0	M24	M16x2
ER 32x100[1]	50	ER32	2.0	20.0	50	-	100	80.9	-	M24	M22x1.5
ER 32x150[1]	50	ER32	2.0	20.0	50	-	150	130.9	-	M24	M22x1.5
ER 32x200[1]	50	ER32	2.0	20.0	50	-	200	180.9	-	M24	M22x1.5
ER 40x100[1]	50	ER40	3.0	26.0	63	-	100	80.9	-	M24	M28x1.5
ER 40x150[1]	50	ER40	3.0	26.0	63	-	150	130.9	-	M24	M28x1.5
ER 40x200[1]	50	ER40	3.0	26.0	63	-	200	180.9	-	M24	M28x1.5
ER 50x100[1]	50	ER50	10.0	34.0	78	-	100	80.9	-	M24	M36x1.5
ER 50x150[1]	50	ER50	10.0	34.0	78	-	150	130.9	-	M24	M36x1.5

G137-G145 G154-G160 G163-G164 G164-G166 G167 G170

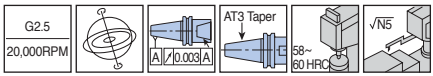
- Add B for coolant through flange
- [1] Balance to G6.3 at 12,000RPM

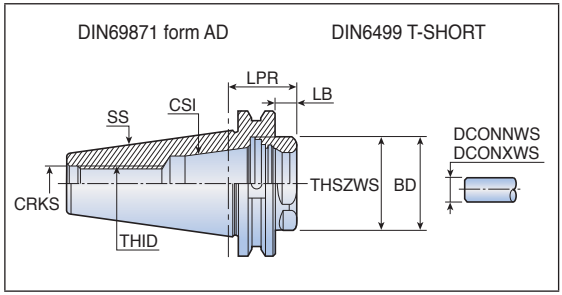
DIN69871-ER-SHORT

TSHORT

Short ER collet chucks







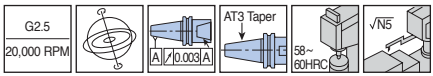
Designation	Dimension (mm)									
	SS	CSI	DCONNWS	DCONXWS	BD	LPR	LB	CRKS	THSZWS	THID
DIN69871 40 ER32 SHORT	40	ER32	2.0	20.0	40	25.1	6.0	M16	M40x1.5	-
DIN69871 50 ER32 SHORT	50	ER32	2.0	20.0	40	28.6	9.5	M24	M40x1.5	M22x1.5
ER40 SHORT	50	ER40	3.0	26.0	50	28.6	9.5	M24	M50x1.5	M28x1.5

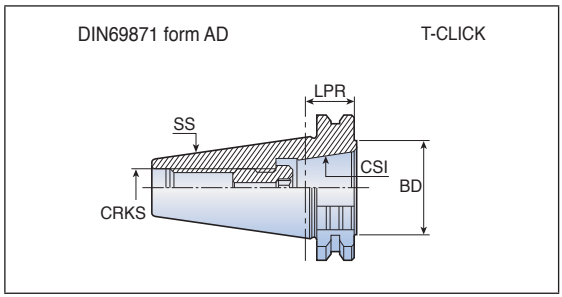
DIN69871-ER-CLICK-IN

TCLICK

Quick change connection adapters







Designation	Dimension (mm)				
	SS	CSI	BD	LPR	CRKS
DIN69871 50 ER32 CLICK-IN	50	32 SRF	41	20.1	M24

G137-G145 G154-G160 G163-G164 G164-G166 G167 G170 G181

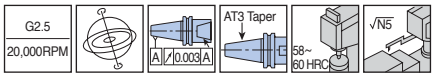
• Tightening torque: 24kg×m

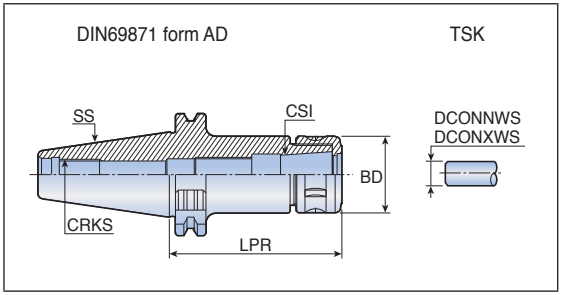
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TaeguTec Industry 4.0

DIN69871-TSK

TSK collet chucks







Designation		Dimension (mm)						
		SS	CSI	DCONNWS	DCONXWS	BD	LPR	CRKS
DIN69871 40	**TSK 6-90**	40	TSK6	1.5	6.0	19.5	90	M16
	TSK 6-120	40	TSK6	1.5	6.0	19.5	120	M16
	TSK 10-90	40	TSK10	1.5	10.0	27.5	90	M16
	TSK 10-120	40	TSK10	1.5	10.0	27.5	120	M16
	TSK 16-90	40	TSK16	2.5	16.0	40.0	90	M16
	TSK 16-120	40	TSK16	2.5	16.0	40.0	120	M16
	TSK 25-90	40	TSK25	7.5	25.0	55.0	90	M16
	TSK 25-120	40	TSK25	7.5	25.0	55.0	120	M16
DIN69871 50	**TSK 6-120**[1]	50	TSK6	1.5	6.0	19.5	120	M24
	TSK 6-165[1]	50	TSK6	1.5	6.0	19.5	165	M24
	TSK 6-195[1]	50	TSK6	1.5	6.0	19.5	195	M24
	TSK 10-120[1]	50	TSK10	1.5	10.0	27.5	120	M24
	TSK 10-165[1]	50	TSK10	1.5	10.0	27.5	165	M24
	TSK 10-195[1]	50	TSK10	1.5	10.0	27.5	195	M24
	TSK 16-120[1]	50	TSK16	2.5	16.0	40.0	120	M24
	TSK 16-165[1]	50	TSK16	2.5	16.0	40.0	165	M24
	TSK 16-195[1]	50	TSK16	2.5	16.0	40.0	195	M24
	TSK 25-120[1]	50	TSK25	7.5	25.0	55.0	120	M24
	TSK 25-165[1]	50	TSK25	7.5	25.0	55.0	165	M24
	TSK 25-195[1]	50	TSK25	7.5	25.0	55.0	195	M24

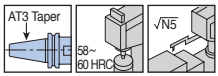
G146-G148 G163-G164 G164-G166 G171 G178

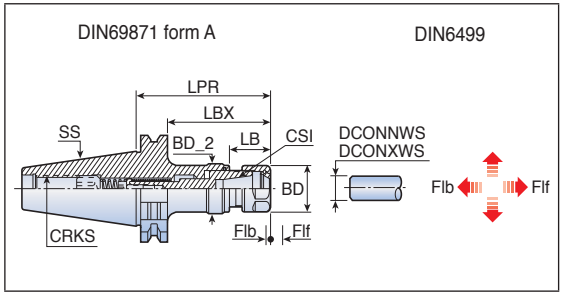
- Add B for coolant through flange
- [1] Balance to G6.3 at 12,000RPM

GTI DIN69871-ER

GTI tap attachments





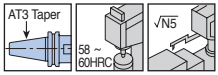


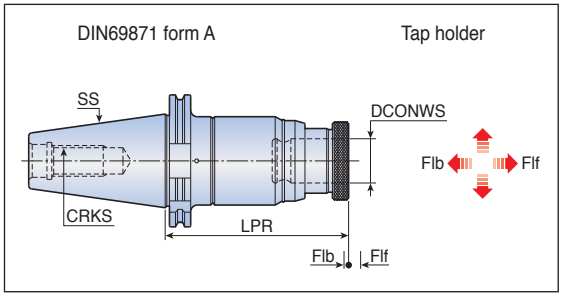
Designation		Dimension (mm)													
		SS	CSI	Tapmin	Tapmax	DCONNWS	DCONXWS	BD_2	BD	LPR	LBX	LB	Flb	Flf	CRKS
GTI DIN69871 40	**ER 16**	40	ER16	M3	M10	0.5	10.0	29.5	28	81.2	62.1	24.6	3	8	M16
	ER 32	40	ER32	M6	M20	2.0	20.0	56.5	50	112.6	93.5	33.0	4	9	M16
	ER 40	40	ER40	M6	M28	3.0	26.0	56.5	63	130.6	111.5	51.0	4	9	M16
GTI DIN69871 50	**ER 16**	50	ER16	M3	M10	0.5	10.0	29.5	28	106.8	87.7	24.6	3	8	M24
	ER 32	50	ER32	M6	M20	2.0	20.0	56.5	50	115.3	96.2	33.0	4	9	M24
	ER 40	50	ER40	M6	M28	3.0	26.0	56.5	63	133.3	114.2	51.0	4	9	M24

DIN69871-TC

Tap holders







Designation		Dimension (mm)								
		SS	Tapmin	Tapmax	DCONWS	LPR	Flb	Flf	Tap adapter	CRKS
DIN69871 40	**TC 12-90**	40	M3	M12	19	90	6.5	12	TA1	M16
	TC 22-142	40	M6	M24	31	142	14.5	13	TA2	M16
DIN69871 50	**TC 12-130**	50	M3	M12	19	130	6.5	12	TA1	M24
	TC 22-142	50	M6	M24	31	142	14.5	13	TA2	M24
	TC 38-190	50	M18	M38	48	190	20.0	20	TA3	M24


G137-G145


G161


G163-G164


G164-G166


G170



G185

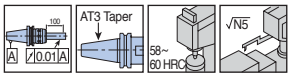
- Torque control system

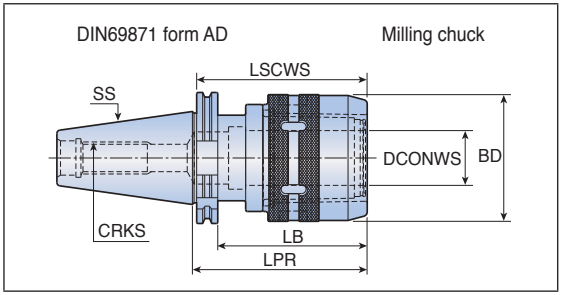
ADVANCE MACHINING
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DIN69871-NTMC

Milling chucks







Designation		Dimension (mm)						
		SS	DCONWS	BD	LPR	LB	LSCWS	CRKS
DIN69871 40	**NTMC 20-90**	40	20	53	90	70.9	82	M16
	NTMC 20-105	40	20	53	105	85.9	95	M16
	NTMC 32-95	40	32	72	95	75.9	85	M16
	NTMC 32-105	40	32	72	105	85.9	95	M16
	NTMC 32-120	40	32	72	120	100.9	105	M16
DIN69871 50	**NTMC 20-105**	50	20	53	105	85.9	105	M24
	NTMC 32-105	50	32	74	105	85.9	110	M24
	NTMC 32-135	50	32	74	135	115.9	125	M24
	NTMC 32-165	50	32	74	165	145.9	125	M24
	NTMC 42-105	50	42	94	105	85.9	120	M24
	NTMC 42-135	50	42	94	135	115.9	130	M24


G151-G153


G164-G166


G170

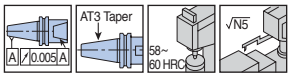


G180

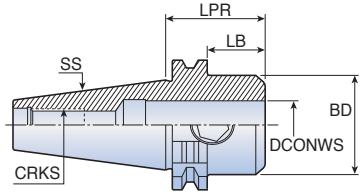
DIN69871-EM

Short end mill holders





DIN69871 form AD DIN6359



Designation	Dimension (mm)					
	SS	DCONWS	BD	LPR	LB	CRKS
DIN69871 40 EM 10x45	40	10	35	45	25.9	M16
EM 12x45	40	12	42	45	25.9	M16
EM 14x45	40	14	44	45	25.9	M16
EM 16x45	40	16	48	45	25.9	M16
EM 18x45	40	18	49	45	25.9	M16
EM 20x45	40	20	49	45	25.9	M16
EM 25x45	40	25	49	45	25.9	M16





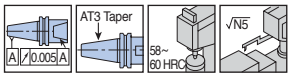
• Add B for coolant through flange

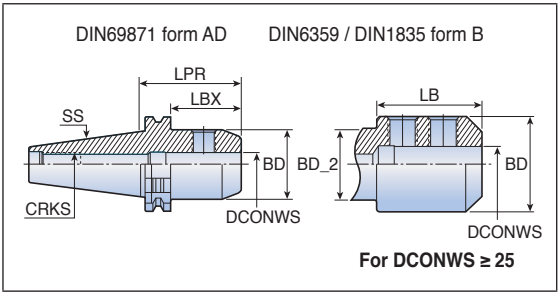
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DIN69871-EM

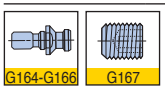
End mill holders







Designation	Dimension (mm)							
	SS	DCONWS	BD	BD_2	LPR	LBX	LB	CRKS
DIN69871 30 EM 6x50	30	6	25	-	50	30.9	-	M12
EM 8x50	30	8	28	-	50	30.9	-	M12
EM 10x50	30	10	35	-	50	30.9	-	M12
EM 14x63	30	14	44	-	63	43.9	-	M12
EM 16x63	30	16	48	-	63	43.9	-	M12
EM 18x72	30	18	50	-	72	52.9	-	M12
EM 20x72	30	20	52	-	72	52.9	-	M12
DIN69871 40 EM 6x50	40	6	25	-	50	30.9	-	M16
EM 8x50	40	8	28	-	50	30.9	-	M16
EM 10x50	40	10	35	-	50	30.9	-	M16
EM 12x50	40	12	42	-	50	30.9	-	M16
EM 14x63	40	14	44	-	63	43.9	-	M16
EM 16x63	40	16	48	-	63	43.9	-	M16
EM 18x63	40	18	50	-	63	43.9	-	M16
EM 20x63	40	20	52	-	63	43.9	-	M16
EM 25x100	40	25	65	49.0	100	80.9	65	M16
EM 32x100	40	32	71	49.0	100	80.9	65	M16
DIN69871 50 EM 6x63	50	6	25	-	63	43.9	-	M24
EM 8x63	50	8	28	-	63	43.9	-	M24
EM 10x63	50	10	35	-	63	43.9	-	M24
EM 12x63	50	12	42	-	63	43.9	-	M24
EM 14x63	50	14	44	-	63	43.9	-	M24
EM 16x63	50	16	48	-	63	43.9	-	M24
EM 18x63	50	18	50	-	63	43.9	-	M24
EM 20x63	50	20	52	-	63	43.9	-	M24
EM 25x80	50	25	65	-	80	60.9	-	M24
EM 32x100	50	32	72	-	100	80.9	-	M24
EM 40x100	50	40	90	79.9	100	80.9	43	M24
EM 50x125	50	50	98	79.9	125	105.9	90	M24

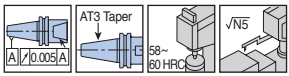


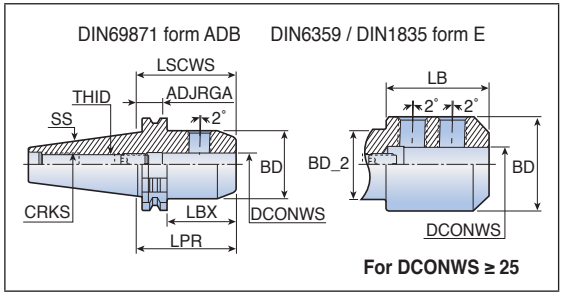
• Add B for coolant through flange except DIN69871 30

DIN69871-EM-E

End mill holders - Whistle notch







For DCONWS ≥ 25

Designation	Dimension (mm)										
	SS	d2	BD	BD_2	LPR	LBX	LB	ADJRGA	LSCWS	CRKS	THID
DIN69871 40 EM 8x50E	40	8	28	-	50	30.9	-	10	45	M16	M6
EM 10x50E	40	10	35	-	50	30.9	-	10	49	M16	M8
EM 12x50E	40	12	42	-	50	30.9	-	10	54	M16	M10
EM 14x63E	40	14	44	-	63	43.9	-	10	54	M16	M10
EM 16x63E	40	16	48	-	63	43.9	-	10	57	M16	M12
EM 18x63E	40	18	50	-	63	43.9	-	10	57	M16	M12
EM 20x63E	40	20	52	-	63	43.9	-	10	59	M16	M16
EM 25x100E	40	25	64	49	100	80.9	65	10	64	M16	M20x1.5
EM 32x100E	40	32	71	49	100	80.9	65	10	68	M16	M20x1.5
DIN69871 50 EM 8x63E	50	8	28	-	63	43.9	-	10	45	M24	M6
EM 10x63E	50	10	35	-	63	43.9	-	10	49	M24	M8
EM 12x63E	50	12	42	-	63	43.9	-	10	54	M24	M10
EM 14x63E	50	14	44	-	63	43.9	-	10	54	M24	M10
EM 16x63E	50	16	48	-	63	43.9	-	10	57	M24	M12
EM 18x63E	50	18	50	-	63	43.9	-	10	57	M24	M12
EM 20x63E	50	20	52	-	63	43.9	-	10	59	M24	M16
EM 25x80E	50	25	65	-	80	60.9	-	10	64	M24	M20x1.5
EM 32x100E	50	32	72	-	100	80.9	-	10	68	M24	M20x1.5
EM 40x100E	50	40	90	79	100	80.9	43	10	78	M24	M20x1.5



- The adjustment screw has an internal coolant hole
- Add B for coolant through the flange

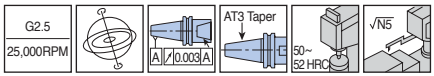
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DIN69871-SRKIN

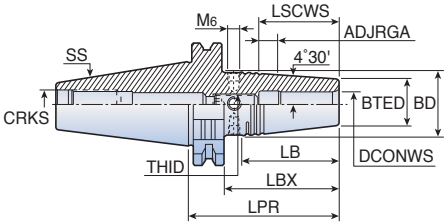
T-SHRINK

Thermal shrinking chucks





DIN69871 form AD T-SHRINK



Designation	Dimension (mm)										
	SS	DCONWS	BTED	BD	LPR	LBX	LB	ADJRGA	LSCWS	CRKS	THID
DIN69871 40 SRKIN 6x80	40	6	21	27	80	60.9	38.0	11	36	M16	M5
SRKIN 8x80	40	8	21	27	80	60.9	38.0	11	36	M16	M6
SRKIN 10x80	40	10	24	32	80	60.9	50.5	11	42	M16	M8
SRKIN 12x80	40	12	24	32	80	60.9	50.5	16	47	M16	M10
SRKIN 14x80	40	14	27	34	80	60.9	44.2	11	47	M16	M10
SRKIN 16x80	40	16	27	34	80	60.9	44.2	11	50	M16	M12
SRKIN 18x80	40	18	33	42	80	60.9	57.0	11	50	M16	M12
SRKIN 20x80	40	20	33	42	80	60.9	57.0	11	52	M16	M16
SRKIN 25x100	40	25	44	53	100	80.9	57.0	11	58	M16	M16
DIN69871 50 SRKIN 6x80(1)	50	6	21	27	80	60.9	38.0	11	36	M24	M5
SRKIN 8x80(1)	50	8	21	27	80	60.9	38.0	11	36	M24	M6
SRKIN 10x80(1)	50	10	24	32	80	60.9	51.0	11	42	M24	M8
SRKIN 12x80(1)	50	12	24	32	80	60.9	51.0	16	47	M24	M16
SRKIN 14x80(1)	50	14	27	34	80	60.9	45.0	11	47	M24	M10
SRKIN 16x80(1)	50	16	27	34	80	60.9	45.0	11	50	M24	M10
SRKIN 18x80(1)	50	18	33	42	80	60.9	57.0	11	50	M24	M12
SRKIN 20x80(1)	50	20	33	42	80	60.9	57.0	11	52	M24	M12
SRKIN 25x100(1)	50	25	44	53	100	80.9	57.0	11	58	M24	M16
SRKIN 32x100(1)	50	32	44	53	100	80.9	57.0	11	58	M24	M16

G164-G166 G168 G174 G184

- Only use inductive heating device for T-SHRINK holders
- Add B for coolant through flange
- (1) Balance to G2.5 at 20,000RPM

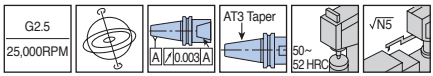
TaeguTec Member IMC Group

DIN69871-SRK

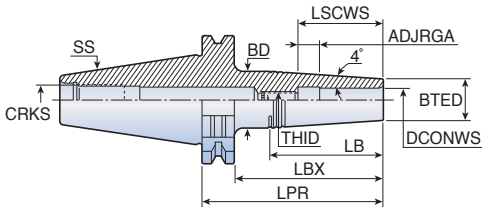
T-SHRINK

Thermal shrinking chucks





DIN69871 form AD T-SHRINK



Designation		Dimension (mm)										
		SS	DCONWS	BTED	BD	LPR	LBX	LB	ADJRGA	LSCWS	CRKS	THID
DIN69871 40	**SRK 3x50**	40	3	10	15	69.1	50	35.5	6	16	M16	M6
	SRK 3x85	40	3	10	19	104.1	85	64.1	6	16	M16	M6
	SRK 4x50	40	4	10	15	69.1	50	35.5	6	18	M16	M6
	SRK 4x85	40	4	10	19	104.1	85	64.1	6	18	M16	M6
	SRK 5x50	40	5	10	15	69.1	50	35.5	6	21	M16	M6
	SRK 5x85	40	5	10	19	104.1	85	64.1	6	18	M16	M6
	SRK 6x50	40	6	11	16	69.1	50	35.5	6	24	M16	M8
	SRK 6x85	40	6	11	20	104.1	85	64.1	6	24	M16	M8
	SRK 8x50	40	8	14	20	69.1	50	42.5	6	31	M16	M10
	SRK 8x85	40	8	14	23	104.1	85	63.9	6	31	M16	M10
	SRK 10x50	40	10	16	22	69.1	50	42.4	6	36	M16	M12
	SRK 10x85	40	10	16	24.5	104.1	85	60.3	6	36	M16	M12
	SRK 12x50	40	12	20	26	69.1	50	42.3	10	42	M16	M10
	SRK 12x85	40	12	20	28	104.1	85	56.6	10	42	M16	M10

G164-G166 G174 G184

• Add B for coolant through the flange

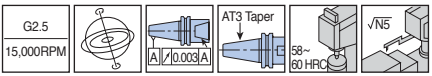
ADVANCE MACHINING
TaeguTec Industry 4.0

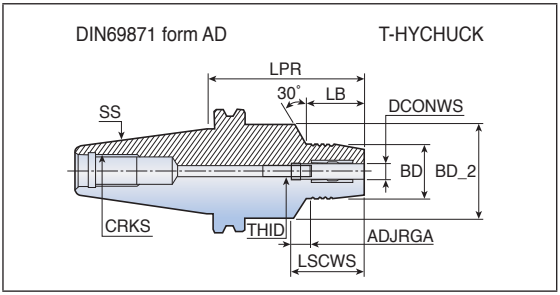
DIN69871-THC

THYCHUCK

Hydraulic chucks







Designation		Dimension (mm)									
		SS	DCONWS	BD	BD_2	LPR	LB	ADJRGA	LSCWS	THID	CRKS
DIN69871 40	**THC 6-65**	40	6	28	50	65	23	10	37.5	M5	M16
	THC 8-65	40	8	30	50	65	23	10	37.5	M6	M16
	THC 10-95	40	10	32	50	95	44	10	42.5	M8x1	M16
	THC 12-95	40	12	34	50	95	44	10	47.5	M10x1	M16
	THC 14-95	40	14	36	50	95	47	10	47.5	M10x1	M16
	THC 16-95	40	16	38	50	95	48	10	52.5	M10x1	M16
	THC 18-95	40	18	41	50	95	47	10	52.5	M10x1	M16
	THC 20-95	40	20	43	50	95	48	10	52.5	M10x1	M16
DIN69871 50	**THC 12-90(1)**	50	12	34	50	90	44	10	47.5	M10x1	M24
	THC 16-90(1)	50	16	38	50	90	48	10	52.5	M10x1	M24
	THC 20-120(1)	50	20	43	50	120	48	10	52.5	M10x1	M24
	THC 20-150(1)	50	20	43	50	150	48	10	52.5	M10x1	M24
	THC 25-135(1)	50	25	53	-	135	-	10	61.0	M10x1	M24
	THC 32-135(1)	50	32	63	-	135	-	10	65.0	M16x1	M24
	THC 32-150(1)	50	32	63	-	150	-	10	65.0	M16x1	M24

G149-G150 G164-G166 G182

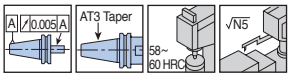
- Add B for coolant through flange
- (1) Balance to G2.5 at 10,000RPM

TaeguTec

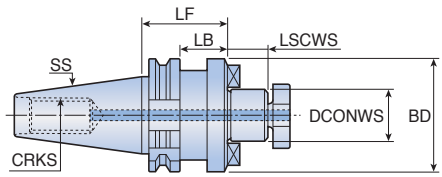
DIN69871-SEM

Face mill arbors





DIN69871 form AD ISO 3937



Designation	Dimension (mm)						
	SS	DCONWS	BD	LF	LB	LSCWS	CRKS
DIN69871 30 SEM 16x35	30	16	38	35	15.9	17	M12
SEM 22x50	30	22	47	50	30.9	19	M12
SEM 27x50	30	27	58	50	30.9	21	M12
DIN69871 40 SEM 16x35	40	16	38	35	15.9	17	M16
SEM 22x35	40	22	47	35	15.9	19	M16
SEM 27x60	40	27	58	60	40.9	21	M16
SEM 32x60	40	32	66	60	40.9	24	M16
SEM 40x60	40	40	82	60	40.9	27	M16
DIN69871 50 SEM 16x35	50	16	38	35	15.9	17	M24
SEM 22x35	50	22	47	35	15.9	19	M24
SEM 22x50x200	50	22	50	200	180.9	19	M24
SEM 27x35	50	27	58	35	15.9	21	M24
SEM 32x35	50	32	66	35	15.9	24	M24
SEM 32x78x370	50	40	78	370	350.9	24	M24
SEM 40x50	50	40	82	50	30.9	27	M24
SEM 50x60	50	50	95	60	40.9	30	M24







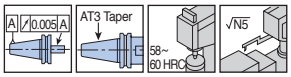
• Wrench not included

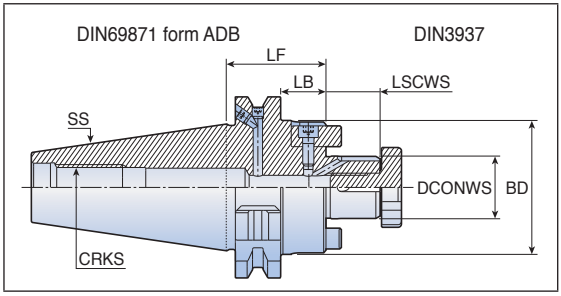
ADVANCE MACHINING
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DIN69871-SEM-C

Face mill arbors with coolant hole







Designation		Dimension (mm)						
		SS	DCONWS	BD	LF	LB	LSCWS	CRKS
DIN69871 40	**SEM 16x35C**	40	16	38	35	15.9	17	M16
	SEM 16x100C	40	16	38	100	80.9	17	M16
	SEM 22x35C	40	22	47	35	15.9	19	M16
	SEM 22x100C	40	22	47	100	80.9	19	M16
	SEM 27x60C	40	27	58	60	40.9	21	M16
	SEM 27x100C	40	27	58	100	80.9	21	M16
	SEM 32x60C	40	32	66	60	40.9	24	M16
DIN69871 50	**SEM 16x35TC**	50	16	38	35	15.9	17	M24
	SEM 16x100C	50	16	38	100	80.9	17	M24
	SEM 22x35C	50	22	47	35	15.9	19	M24
	SEM 22x100C	50	22	47	100	80.9	19	M24
	SEM 27x35C	50	27	58	35	15.9	21	M24
	SEM 27x100C	50	27	58	100	80.9	21	M24
	SEM 32x35C	50	32	66	35	15.9	24	M24
	SEM 32x100C	50	32	66	100	80.9	24	M24
DIN69871 50	**SEM 22x48x200C**	50	22	48	200	181.0	19	M24
	SEM 22x61x300C	50	22	61	300	281.0	19	M24
	SEM 27x61x300C	50	27	61	300	281.0	21	M24
	SEM 32x78x370C	50	32	78	370	351.0	24	M24

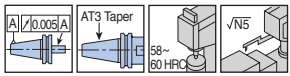
G164-G166 G167 G168

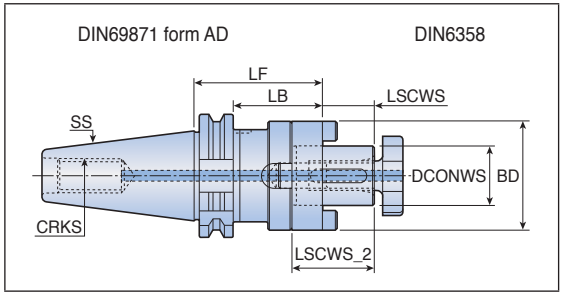
- If the “B type” option is required, the plug screw must be removed from the flange cooling hole (Use a 2mm hex key)

DIN69871-SEMC

Combi shell end mill arbors







Designation	Dimension (mm)							
	SS	DCONWS	BD	LF	LB	LSCWS	LSCWS_2	CRKS
DIN69871 30 SEMC 16x50	30	16	32	50	30.9	17	27	M12
SEMC 22x50	30	22	40	50	30.9	19	31	M12
SEMC 32x60	30	32	58	30	40.9	24	38	M12
DIN69871 40 SEMC 16x55	40	16	32	55	35.9	17	27	M16
SEMC 16x100	40	16	32	100	80.9	17	27	M16
SEMC 22x55	40	22	40	55	35.9	19	31	M16
SEMC 22x100	40	22	40	100	80.9	19	31	M16
SEMC 27x55	40	27	48	55	35.9	21	33	M16
SEMC 27x100	40	27	48	100	80.9	21	33	M16
SEMC 32x60	40	32	58	60	45.9	24	38	M16
SEMC 32x100	40	32	58	100	80.9	24	38	M16
SEMC 40x60	40	40	70	60	40.9	27	41	M16
DIN69871 50 SEMC 16x55	50	16	32	55	35.9	17	27	M24
SEMC 16x100	50	16	32	100	80.9	17	27	M24
SEMC 22x55	50	22	40	55	35.9	19	31	M24
SEMC 22x100	50	22	40	100	80.9	19	31	M24
SEMC 27x55	50	27	48	55	35.9	21	33	M24
SEMC 27x100	50	27	48	100	80.9	21	33	M24
SEMC 32x55	50	32	58	55	35.9	24	38	M24
SEMC 32x100	50	32	58	100	80.9	24	38	M24
SEMC 40x55	50	40	70	55	35.9	27	41	M24
SEMC 40x100	50	40	70	10	80.9	27	41	M24
SEMC 50x70	50	50	90	70	50.9	30	46	M24









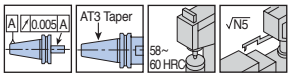
• Wrench not included

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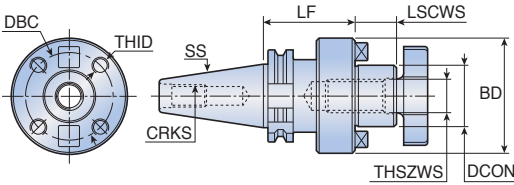
DIN69871-FM

Face mill arbors





DIN69871 form A/AD ISO 3937



Designation	Dimension (mm)								
	SS	DCONWS	BD	DBC	LF	LSCWS	CRKS	THID	THSZWS
DIN69871 40 FM 40[1]	40	40	88	66.7	60	27	M16	M12	M20
DIN69871 50 FM 40[1]	50	40	88	66.7	70	27	M24	M12	M20
FM 60[2]	50	60	128	101.6	70	40	M24	M16	-

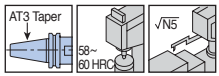
G164-G166 G167 G168

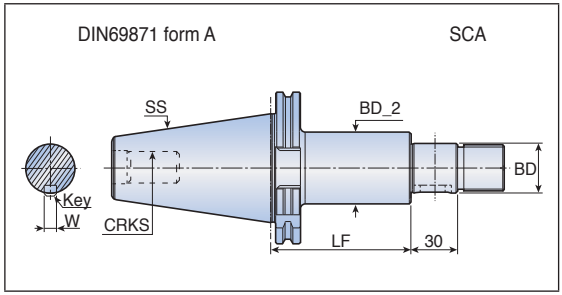
- 4 pcs of mounting screws are included
- (1) Form AD
- (2) Form A

DIN69871-SCA

Slotting cutter arbors







Designation		Dimension (mm)					
		SS	BD	BD_2	LF	W	CRKS
DIN69871 40	**SCA-22-75**	40	22	34	75	6	M16
	SCA-22-120	40	22	34	120	6	M16
	SCA-27-75	40	27	40	75	7	M16
	SCA-27-120	40	27	40	120	7	M16
	SCA-32-90	40	32	46	90	8	M16
DIN69871 50	**SCA-22-90**	50	22	34	90	6	M24
	SCA-22-135	50	22	34	135	6	M24
	SCA-27-90	50	27	40	90	7	M24
	SCA-27-135	50	27	40	135	7	M24
	SCA-32-90	50	32	46	90	8	M24
	SCA-32-135	50	32	46	135	8	M24
	SCA-40-90	50	40	55	90	10	M24
	SCA-40-135	50	40	55	135	10	M24
	SCA-50-90	50	50	68	90	12	M24



G164-G166

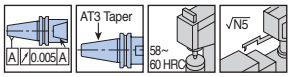
• Washers & key are included (Each 3, 5, 7, 8, 10, 12mm)

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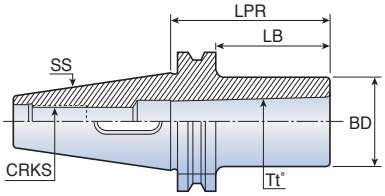
DIN69871-MT

Morse taper adapters





DIN69871 form A DIN6383



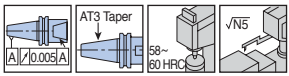
Designation	Dimension (mm)					
	SS	Tt°	BD	LPR	LB	CRKS
DIN69871 30 MT 3x75	30	MT3	40	75	55.9	M12
DIN69871 40 MT 1x50	40	MT1	25	50	30.9	M16
MT 2x50	40	MT2	32	50	30.9	M16
MT 3x70	40	MT3	40	70	50.9	M16
MT 4x95	40	MT4	48	95	75.9	M16
DIN69871 50 MT 1x45	50	MT1	25	45	25.9	M24
MT 2x60	50	MT2	32	60	40.9	M24
MT 3x65	50	MT3	40	65	45.9	M24
MT 4x95	50	MT4	48	95	75.9	M24
MT 5x105	50	MT5	63	105	85.9	M24

G164-G166

DIN69871-MT-DRW

Morse taper draw bar adapters





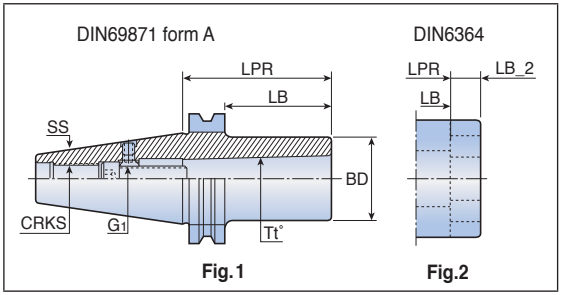


Fig.1 Fig.2

Designation	Dimension (mm)								Fig.
	SS	Tt°	BD	LPR	LB	LB_2	CRKS	G1	
DIN69871 40 MT1 DRW	40	MT1	25	50	30.9	-	M16	M6	1
MT2 DRW	40	MT2	32	50	30.9	-	M16	M10	1
MT3 DRW	40	MT3	40	70	50.9	-	M16	M12	1
MT4 DRW(1)	40	MT4	63	110	90.9	15	M16	M16	2
DIN69871 50 MT1 DRW	50	MT1	25	45	25.9	-	M24	M6	1
MT2 DRW	50	MT2	32	60	40.9	-	M24	M10	1
MT3 DRW	50	MT3	40	65	45.9	-	M24	M12	1
MT4 DRW(1)	50	MT4	63	85	65.9	15	M24	M16	2
MT5 DRW(1)	50	MT5	78	118	98.9	18	M24	M20	2



G164-G166

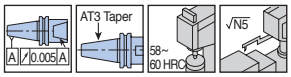
• (1) DIN2201

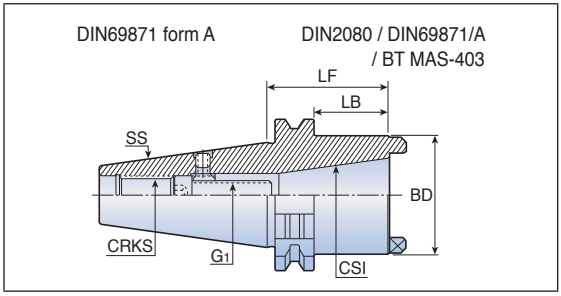
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DIN69871-AD

Adapters





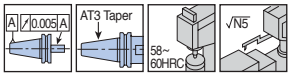


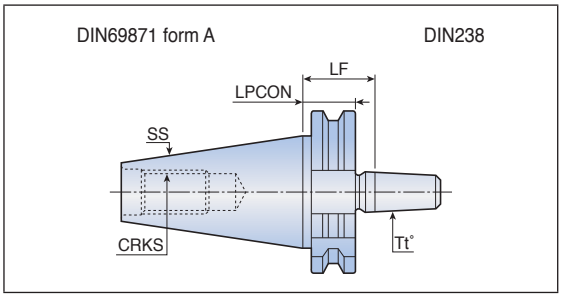
Designation	Dimension (mm)						
	SS	CSI	BD	LF	LB	CRKS	G1
DIN69871 40 AD DIN2080 30	40	DIN2080 30	50	50	30.9	M16	M12
DIN69871 50 AD BT/SK 40	50	BT/SK 40	66	70	50.9	M24	M16

DIN69871-DC

Drill chuck arbors







Designation	Dimension (mm)				
	SS	Tt°	LF	LPCON	CRKS
DIN69871 30 DC B12x26	30	B12	26	19.1	M12
DIN69871 40 DC B12x26	40	B12	26	19.1	M16
DC B16x26	40	B16	26	19.1	M16
DC B18x26	40	B18	26	19.1	M16
DIN69871 50 DC B16x26	50	B16	26	19.1	M24
DC B18x26	50	B16	26	19.1	M24



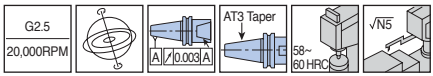
G164-G166

- Without drill chuck

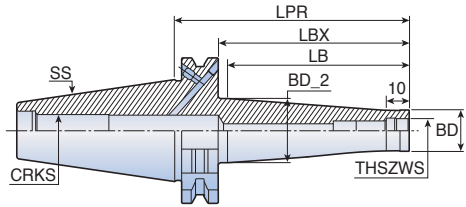
DIN69871-ODP

T-FLEXTEC holders





DIN69871 form ADB T-FLEXTEC



Designation	Dimension (mm)							
	SS	THSZWS	BD	BD_2	LPR	LBX	LB	CRKS
DIN69871 40 ODP 6x58	40	M06	9.8	13.0	58	38.9	32	M16
ODP 6x98	40	M06	9.8	23.0	98	78.9	74	M16
ODP 8x58	40	M08	13.1	15.0	58	38.9	32	M16
ODP 8x98	40	M08	13.1	23.0	98	78.9	74	M16
ODP 10x58	40	M10	18.0	20.0	58	38.9	32	M16
ODP 10x98	40	M10	18.0	28.0	98	78.9	74	M16
ODP 12x58	40	M12	21.0	24.0	58	38.9	32	M16
ODP 12x98	40	M12	21.0	31.0	98	78.9	74	M16
ODP 16x58	40	M16	29.0	28.6	58	38.9	32	M16
ODP 16x98	40	M16	29.0	34.0	98	78.9	74	M16
DIN69871 50 ODP 12x78(1)	50	M12	23.0	30.0	78	58.9	50	M24
ODP 12x128(1)	50	M12	23.0	40.0	128	108.9	100	M24
ODP 12x178(1)	50	M12	23.0	40.0	178	158.9	150	M24
ODP 12x228(1)	50	M12	23.0	46.0	228	208.9	200	M24
ODP 16x78(1)	50	M16	29.0	34.0	78	58.9	50	M24
ODP 16x128(1)	50	M16	29.0	40.0	128	108.9	100	M24
ODP 16x178(1)	50	M16	29.0	55.0	178	158.9	150	M24
ODP 16x228(1)	50	M16	29.0	55.0	228	208.9	200	M24



G164-G166

- If the “B type” option is required, the plug screw must be removed from the flange cooling hole (Use a 2mm hex key)
- (1) Balance to G6.3 at 12,000RPM

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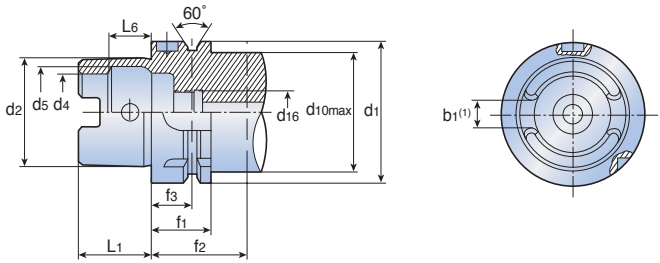
HSK



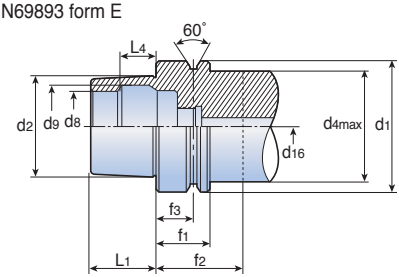
DIN69893 Form A/E/F

Standard toolholder

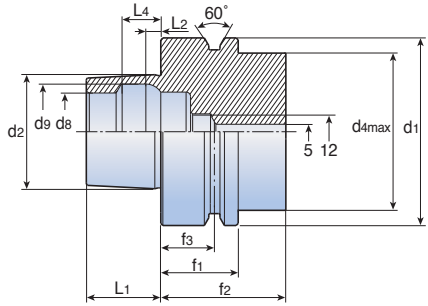
DIN69893 form A



DIN69893 form E



DIN69893 form F(2)



DIN69893 form A

HSK-A	d1 h10	d2	d4 H10	d5 H11	d10max	d16	L1 -0.2	L6 JS10	b1 ±0.04(1)	f1 -0.1	f2min	f3 ±0.1
40	40	30	21	25.5	34	M12x1	20	11.42	8.05	20	35	16
50	50	38	26	32.0	42	M16x1	25	14.13	10.54	26	42	18
63	63	48	34	40.0	53	M18x1	32	18.13	12.54(12.42)	26	42	18
80	80	60	42	50.0	67	M20x1.5	40	22.85	16.04	26	42	18
100	100	75	53	63.0	85	M24x1.5	50	28.56	20.02 (19.9)	29	45	20

• (1) The dimensions in parentheses refer to dimension b1 only for HSK A...WH tools.
These tools feature key slot gap and tolerance, sed on turning tools for accurate cutting edge height position.
(According to Japanese ICTM standard and ISO 12164/3 standard)

DIN69893 form E

HSK-E	d1 h10	d2	d4max	d8 H10	d9 H11	d16	L1 -0.2	L4 JS10	f1 -0.1	f2min	f3 ±0.1
32	32	24	26	17	19.0	M10x1	16	8.92	20	35	16
40	40	30	34	21	25.5	M12x1	20	11.42	20	35	16
50	50	38	42	26	32.0	M16x1	25	14.13	26	42	18
63	63	48	53	34	40.0	M18x1	32	18.13	26	42	18

DIN69893 form F(2)

HSK-F	d1 h10	d2	d4max	d8 H10	d9 H11	L1 -0.2	L2	L4 JS10	f1 -0.1	f2min	f3 ±0.1
63	63	38	53	26	32	25	5.0	14.13	26	42	18

• (2) Without crosshole

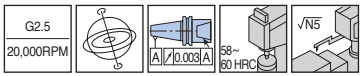
* For non-stock items: Supply condition is subject to availability.
If not available in stock then MOQ (Minimum order qty) will be applicable.

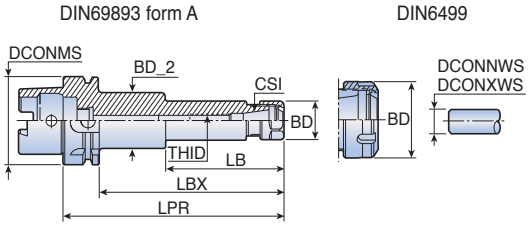
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HSK A-ER

ER collet chucks







Designation		Dimension (mm)									
		DCONMS	CSI	DCONNWS	DCONXWS	BD	BD_2	LPR	LBX	LB	THID
HSK A 40	**ER 16x60**	40	ER16	0.5	10.0	28	-	60	40	-	-
	ER 16x80	40	ER16	0.5	10.0	28	-	80	60	-	M10
	ER 16x100	40	ER16	0.5	10.0	28	-	100	80	-	M10
	ER 25x60	40	ER25	1.0	16.0	42	32.4	60	40	28.0	-
	ER 25x80	40	ER25	1.0	16.0	42	32.4	80	60	28.0	M18x1.5
	ER 25x100	40	ER25	1.0	16.0	42	32.4	100	80	28.0	M16
	ER 32x100	40	ER32	2.0	20.0	50	40.4	100	80	31.0	M22x1.5
HSK A 50	**ER 16x100**	50	ER16	0.5	10.0	28	-	100	74	-	M10
	ER 16x120	50	ER16	0.5	10.0	28	-	120	94	-	M10
	ER 20x100	50	ER20	1.0	13.0	34	-	100	74	-	M12
	ER 20x120	50	ER20	1.0	13.0	34	-	120	94	-	M12
	ER 25x80	50	ER25	1.0	16.0	42	32.4	80	54	28.0	M8
	ER 25x100	50	ER25	1.0	16.0	42	41.8	100	74	28.5	M16
	ER 32x100	50	ER32	2.0	20.0	50	40.4	100	74	31.0	M22x1.5
	ER 32x120	50	ER32	2.0	20.0	50	41.8	120	94	35.0	M22x1.5
HSK A 63	**ER 16x100**	63	ER16	0.5	10.0	28	-	100	74	-	M10
	ER 16x120	63	ER16	0.5	10.0	28	-	120	94	-	M10
	ER 16x160	63	ER16	0.5	10.0	28	40.0	160	134	85.6	M10
	ER 20x100	63	ER20	1.0	13.0	34	-	100	74	-	M12
	ER 20x120	63	ER20	1.0	13.0	34	-	120	94	-	M12
	ER 20x160	63	ER20	1.0	13.0	34	45.0	160	134	85.0	M12
	ER 25x80	63	ER25	1.0	16.0	42	-	80	54	-	M8
	ER 25x100	63	ER25	1.0	16.0	42	-	100	74	-	M16
	ER 25x120	63	ER25	1.0	16.0	42	-	120	94	-	M16
	ER 25x160	63	ER25	1.0	16.0	42	-	160	134	-	M16
	ER 32x80	63	ER32	2.0	20.0	50	40.4	80	54	31.0	-
	ER 32x100	63	ER32	2.0	20.0	50	-	100	74	-	M22x1.5
	ER 32x120	63	ER32	2.0	20.0	50	-	120	94	-	M22x1.5
	ER 32x160	63	ER32	2.0	20.0	50	-	160	134	-	M22x1.5
	ER 40x80	63	ER40	3.0	26.0	63	50.4	80	54	34.0	-
	ER 40x100	63	ER40	3.0	26.0	63	50.4	100	74	34.0	M28x1.5
	ER 40x120	63	ER40	3.0	26.0	63	50.4	120	94	34.0	M28x1.5


G137-G145

G163-G164

G167

G169

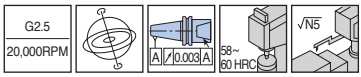
G169

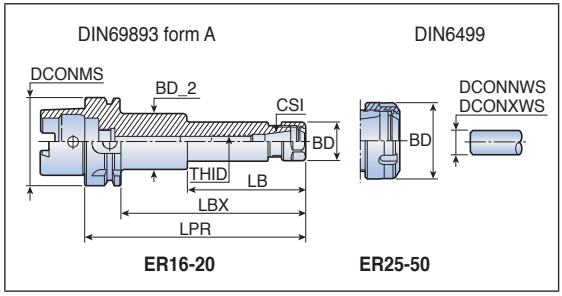
G170

HSK A-ER

ER collet chucks







Designation		Dimension (mm)									
		DCONMS	CSI	DCONNWS	DCONXWS	BD	BD_2	LPR	LBX	LB	THID
HSK A 100	**ER 16x100[(1)]**	100	ER16	0.5	10.0	28	-	100	71	-	M10
	ER 16x160[(1)]	100	ER16	0.5	10.0	28	40	160	131	85	M10
	ER 20x100[(1)]	100	ER20	1.0	13.0	34	-	100	71	-	M12
	ER 20x160[(1)]	100	ER20	1.0	13.0	34	50	160	131	85	M12
	ER 25x100[(1)]	100	ER25	1.0	16.0	42	-	100	71	-	M16
	ER 25x120[(1)]	100	ER25	1.0	16.0	42	-	120	91	-	M16
	ER 25x160[(1)]	100	ER25	1.0	16.0	42	-	160	134	-	M16
	ER 32x100[(1)]	100	ER32	2.0	20.0	50	-	100	71	-	M22x1.5
	ER 32x120[(1)]	100	ER32	2.0	20.0	50	-	120	91	-	M22x1.5
	ER 32x160[(1)]	100	ER32	2.0	20.0	50	-	160	131	-	M22x1.5
	ER 40x100[(1)]	100	ER40	3.0	26.0	63	-	100	71	-	M28x1.5
	ER 40x120[(1)]	100	ER40	3.0	26.0	63	-	120	91	-	M28x1.5
	ER 40x160[(1)]	100	ER40	3.0	26.0	63	-	160	131	-	M28x1.5
	ER 50x100[(1)]	100	ER50	10.0	34.0	78	-	100	71	-	M22x1.5

G137-G145 G163-G164 G167 G169 G169 G170

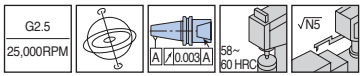
• [(1)] Balance to G6.3 at 12,000RPM

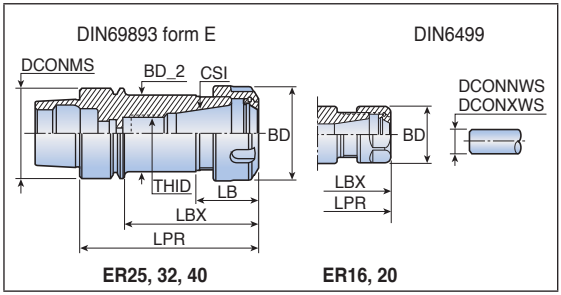
ADVANCE MACHINING
TaeguTec Industry 4.0

HSK E-ER

ER collet chucks







Designation		Dimension (mm)									
		DCONMS	CSI	DCONNWS	DCONXWS	BD	BD_2	LPR	LBX	LB	THID
HSK E 32	**ER 16x60**	32	ER16	0.5	10.0	28	22.4	60	40	21.5	-
	ER 20x60	32	ER20	1.0	13.0	34	25.4	60	40	26.0	-
	ER 25x65	32	ER25	1.0	16.0	42	25.8	65	45	30.0	-
HSK E 40	**ER 16x60**	40	ER16	0.5	10.0	28	-	60	40	-	-
	ER 16x80	40	ER16	0.5	10.0	28	-	80	60	-	M10
	ER 20x80	40	ER20	1.0	13.0	34	-	80	60	-	M12
	ER 25x80	40	ER25	1.0	16.0	42	34.0	80	60	28.0	M18x1.5
	ER 32x80	40	ER32	2.0	20.0	50	40.1	-	60	31.0	M22x1.5
HSK E 50	**ER 16x80**	50	ER16	0.5	10.0	28	-	80	54	-	M10
	ER 16x100	50	ER16	0.5	10.0	28	-	100	74	-	M10
	ER 16x100 M(1)	50	ER16	0.5	10.0	22	-	100	74	-	M10
	ER 20x80	50	ER20	1.0	13.0	34	-	80	54	-	M12
	ER 25x80	50	ER25	1.0	16.0	42	32.4	80	54	28.0	M16
	ER 32x80	50	ER32	2.0	20.0	50	40.4	80	54	31.0	-
	ER 32x100	50	ER32	2.0	20.0	50	40.4	100	74	31.0	M22x1.5
HSK E 63	**ER 16x80**	63	ER16	0.5	10.0	28	-	80	54	-	M10
	ER 16x100	63	ER16	0.5	10.0	28	-	100	74	-	M10
	ER 20x75	63	ER20	1.0	13.0	34	-	75	49	-	-
	ER 32x80	63	ER32	2.0	20.0	50	40.4	80	54	31.0	-
	ER 32x100	63	ER32	2.0	20.0	50	-	100	75	-	M22x1.5
	ER 40x80	63	ER40	3.0	26.0	63	-	80	54	34.0	-













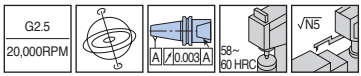


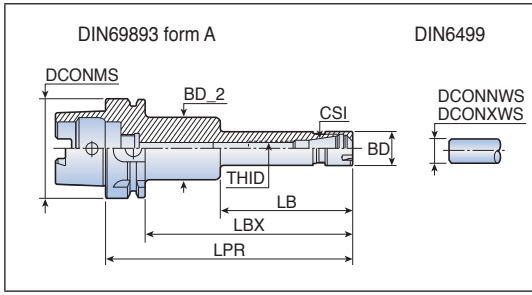
• (1) Equipped with nut ER16 MINI

HSK A-ER-M

ER mini collet chucks







Designation		Dimension (mm)									
		DCONMS	CSI	DCONNWS	DCONXWS	BD	BD_2	LPR	LBX	LB	THID
HSK A 50	**ER 16x100 M**	50	ER16	0.5	10.0	22	-	100	74	-	M10
	ER 16x120 M	50	ER16	0.5	10.0	22	-	120	94	-	M10
	ER 20x100 M	50	ER20	1.0	13.0	28	-	100	74	-	M12
	ER 20x120 M	50	ER20	1.0	13.0	28	-	120	94	-	M12
HSK A 63	**ER 16x100 M**	63	ER16	0.5	10.0	22	-	100	74	-	M10
	ER 16x120 M	63	ER16	0.5	10.0	22	40	120	94	78	M10
	ER 16x160 M	63	ER16	0.5	10.0	22	40	160	134	85	M10
	ER 20x100 M	63	ER20	1.0	13.0	28	-	100	74	-	M12
	ER 20x120 M	63	ER20	1.0	13.0	28	-	120	94	-	M12
	ER 20x160 M	63	ER20	1.0	13.0	28	45	160	134	85	M12
HSK A 100	**ER 16x100 M(1)**	100	ER16	0.5	10.0	22	-	100	71	-	M10
	ER 16x160 M(1)	100	ER16	0.5	10.0	22	40	160	131	85	M10
	ER 20x100 M(1)	100	ER20	1.0	13.0	28	-	100	71	-	M12
	ER 20x160 M(1)	100	ER20	1.0	13.0	28	45	160	131	85	M12

G137-G145 G163-G164 G167 G169 G169 G170

• (1) Balance to G6.3 at 12,000RPM

HSK FM-ER

ER collet chucks



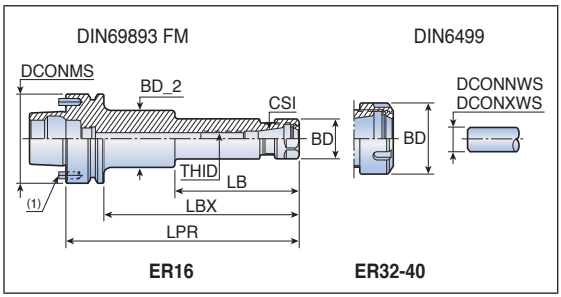
G2.5
25,000RPM











Designation		Dimension (mm)									
		DCONMS	CSI	DCONNWS	DCONXWS	BD	BD_2	LPR	LBX	LB	THID
HSK FM 63	**ER 16x80**	63	ER16	0.5	10.0	28	-	80	54	-	M10
	ER 16x100	63	ER16	0.5	10.0	28	-	100	74	-	M10
	ER 16x120	63	ER16	0.5	10.0	28	-	120	94	-	M10
	ER 16x160	63	ER16	0.5	10.0	28	40	160	134	85.6	M10
	ER 32x80	63	ER32	2.0	20.0	50	-	80	54	-	-
	ER 32x100	63	ER32	2.0	20.0	50	-	100	74	-	M22x1.5
	ER 40x80	63	ER40	3.0	26.0	63	50	80	54	32.0	-
	ER 40x100	63	ER40	3.0	26.0	63	50	100	74	32.0	M28x1.5

• (1) The driving pins can be removed to turn the toolholder into a standard HSK F 63 type

HSK A-ER-SHORT

T-SHORT

Short ER collet chucks



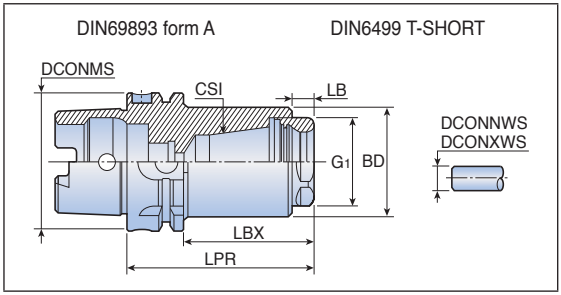
G2.5
20,000RPM











Designation		Dimension (mm)								
		DCONMS	CSI	DCONNWS	DCONXWS	BD	LPR	LBX	LB	G1
HSK A 63	**ER 32 SHORT**	63	ER32	2.0	20.0	50	81.0	55.0	9.5	M40x1.5
HSK A 100	**ER 32 SHORT**	100	ER32	2.0	20.0	50	89.5	60.5	9.5	M40x1.5
	ER 40 SHORT	100	ER40	3.0	26.0	70	104.5	75.5	9.5	M50x1.5


G137-G145


G154-G160


G163-G164


G167


G169


G169


G170

• (1) Equipped with nut ER16 MINI

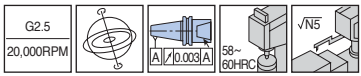
TaeguTec

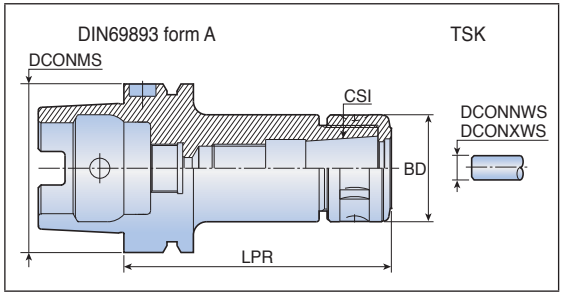
HSK A-TSK

TCLICK

TSK collet chucks







Designation		Dimension (mm)					
		DCONMS	CSI	DCONNWS	DCONXWS	BD	LPR
HSK A 50	**TSK 6-80**	50	TSK6	1.5	6.0	19.5	80
	TSK 10-90	50	TSK10	1.5	10.0	27.5	90
	TSK 16-100	50	TSK16	2.5	16.0	40.0	100
HSK A 63	**TSK 6-80**	63	TSK6	1.5	6.0	19.5	80
	TSK 10-90	63	TSK10	1.5	10.0	27.5	90
	TSK 16-100	63	TSK16	2.5	16.0	40.0	100
	TSK 25-120	63	TSK25	7.5	25.0	55.0	120
HSK A 100	**TSK 6-80**	100	TSK6	1.5	6.0	19.5	80
	TSK 10-90	100	TSK10	1.5	10.0	27.5	90
	TSK 16-100	100	TSK16	2.5	16.0	40.0	100
	TSK 25-120	100	TSK25	7.5	25.0	55.0	120


G146-G148


G154-G160


G163-G164


G169


G169


G171



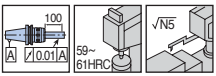
G178

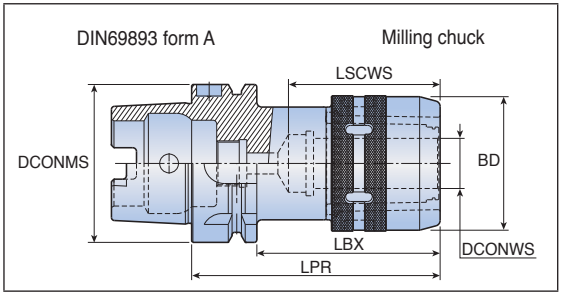
ADVANCE MACHINING
TaeguTec Industry 4.0

HSK A-NTMC

Milling chucks







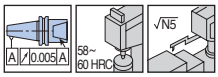
Designation		Dimension (mm)					
		DCONMS	DCONWS	BD	LPR	LBX	LSCWS
HSK A 63	**NTMC 20-105**	63	20	53	105	79	76
	NTMC 25-120	63	25	62	105	79	77
	NTMC 32-130	63	32	72	130	104	100
HSK A 100	**NTMC 20-110**	100	20	53	105	76	77
	NTMC 25-130	100	25	62	135	106	80
	NTMC 32-135	100	32	74	135	106	102
	NTMC 42-135	100	42	94	135	106	112

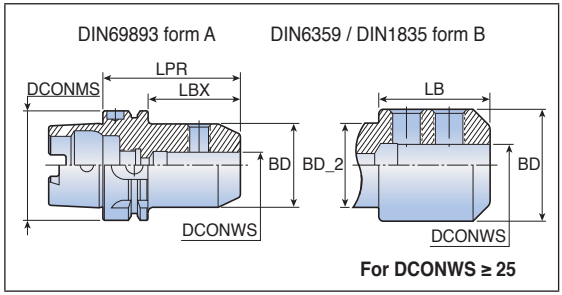
G151-G153 G167 G169 G169 G180

HSK A-EM

End mill holders







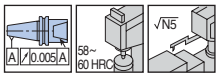
Designation		Dimension (mm)						
		DCONMS	DCONWS	BD	BD_2	LPR	LBX	LB
HSK A 50	**EM 6x65**	50	6	25	-	65	39	-
	EM 8x65	50	8	28	-	65	39	-
	EM 10x65	50	10	35	-	65	39	-
	EM 14x80	50	14	44	-	80	54	-
	EM 16x80	50	16	48	-	80	54	-
	EM 18x80	50	18	50	-	80	54	-
	EM 20x80	50	20	52	-	80	54	-
HSK A 63	**EM 6x65**	63	6	25	-	65	39	-
	EM 8x65	63	8	28	-	65	39	-
	EM 10x65	63	10	35	-	65	39	-
	EM 12x80	63	12	42	-	80	54	-
	EM 14x80	63	14	44	-	80	54	-
	EM 16x80	63	16	48	-	80	54	-
	EM 18x80	63	18	50	-	80	54	-
	EM 20x80	63	20	52	-	80	54	-
	EM 25x110	63	25	65	52	110	84	65.5
	EM 32x110	63	32	72	52	110	84	65.5
HSK A 100	**EM 8x80**	100	8	28	-	80	51	-
	EM 10x80	100	10	35	-	80	51	-
	EM 12x80	100	12	42	-	80	51	-
	EM 14x80	100	14	44	-	80	51	-
	EM 16x100	100	16	48	-	100	71	-
	EM 18x100	100	18	50	-	100	71	-
	EM 20x100	100	20	52	-	100	71	-
	EM 25x100	100	25	65	-	100	71	-
	EM 32x100	100	32	72	-	100	71	-
	EM 40x110	100	40	85	-	110	81	-

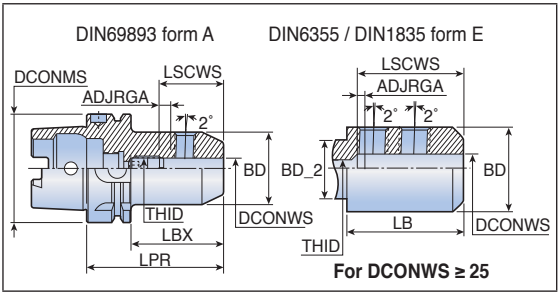
G167 G169 G169

HSK A-EM-E

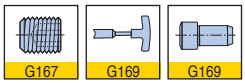
End mill holders - Whistle notch







Designation		Dimension (mm)									
		DCONMS	DCONWS	BD	BD_2	LPR	LBX	LB	ADJRGA	LSCWS	THID
HSK A 50	**EM 6x80 E**	50	6	25	-	80	54	-	8	38	M5
	EM 8x80 E	50	8	28	-	80	54	-	5	40	M6
	EM 10x80 E	50	10	35	-	80	54	-	5	44	M8
	EM 12x90 E	50	12	42	-	90	64	-	5	49	M10
	EM 14x90 E	50	14	44	-	90	64	-	5	49	M10
	EM 16x90 E	50	16	48	-	90	64	-	5	52	M12
	EM 18x90 E	50	18	50	-	90	64	-	5	52	M12
	EM 20x100 E	50	20	52	-	100	74	-	5	54	M16
HSK A 63	**EM 6x80 E**	63	6	25	-	80	54	-	8	40	M5
	EM 8x80 E	63	8	28	-	80	54	-	5	40	M6
	EM 10x80 E	63	10	35	-	80	54	-	5	44	M8
	EM 12x90 E	63	12	42	-	90	64	-	5	49	M10
	EM 14x90 E	63	14	44	-	90	64	-	5	49	M10
	EM 16x100 E	63	16	48	-	100	74	-	5	52	M12
	EM 18x100 E	63	18	50	-	100	74	-	8	55	M12
	EM 20x100 E	63	20	52	-	100	74	-	5	54	M16
	EM 25x110 E	63	25	65	52	110	84	65.5	7	61	M16
	EM 32x110 E	63	32	72	52	110	84	65.5	5	63	M20x1.5
HSK A 100	**EM 6x90 E**	100	6	25	-	90	61	-	5	40	M5
	EM 8x90 E	100	8	28	-	90	61	-	5	40	M6
	EM 10x90 E	100	10	35	-	90	61	-	5	44	M8
	EM 12x100 E	100	12	42	-	100	71	-	10	54	M10
	EM 14x100 E	100	14	44	-	100	71	-	10	54	M10
	EM 16x100 E	100	16	48	-	100	71	-	5	52	M12
	EM 18x100 E	100	18	50	-	100	71	-	5	52	M12
	EM 20x110 E	100	20	52	-	110	81	-	5	54	M16
	EM 25x120 E	100	25	65	-	120	91	-	7	61	M20x1.5
	EM 32x120 E	100	32	72	-	120	91	-	5	63	M20x1.5

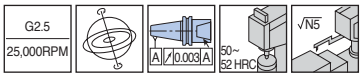


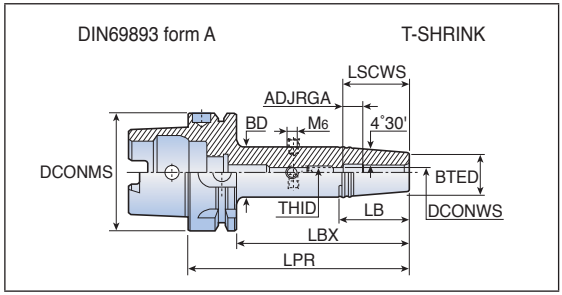
HSK A-SRKIN

T-SHRINK

Thermal shrinking chucks







Designation		Dimension (mm)										
		DCONMS	DCONWS	BTED	BD	LPR	LBX	LB	ADJRGA	LSCWS	THID	Hex key
HSK A 50	**SRKIN 6x80**	50	6	21	27	80	54	38	11	36	M5	2.5
	SRKIN 8x80	50	8	21	27	80	54	38	11	36	M6	3.0
	SRKIN 10x85	50	10	24	32	85	59	51	11	42	M8	4.0
	SRKIN 12x90	50	12	24	32	90	64	51	11	47	M10	5.0
	SRKIN 14x90	50	14	27	34	90	64	45	11	47	M10	5.0
	SRKIN 16x95	50	16	27	34	95	69	45	11	50	M10	5.0
HSK A 63	**SRKIN 6x80**	63	6	21	27	80	54	38	11	36	M5	2.5
	SRKIN 6x120	63	6	21	27	120	94	38	11	36	M5	2.5
	SRKIN 6x160	63	6	21	27	160	134	38	11	36	M5	2.5
	SRKIN 8x80	63	8	21	27	80	54	38	11	36	M6	3.0
	SRKIN 8x120	63	8	21	27	120	94	38	11	36	M6	3.0
	SRKIN 8x160	63	8	21	27	160	134	38	11	36	M6	3.0
	SRKIN 10x85	63	10	24	32	85	54	51	11	42	M8	4.0
	SRKIN 10x120	63	10	24	32	120	94	51	11	42	M8	4.0
	SRKIN 10x160	63	10	24	32	160	134	51	11	42	M8	4.0
	SRKIN 12x90	63	12	24	32	90	64	51	6	42	M8	4.0
	SRKIN 12x120	63	12	24	32	120	94	51	11	47	M10	5.0
	SRKIN 12x160	63	12	24	32	160	134	51	11	47	M10	5.0
	SRKIN 14x90	63	14	27	34	90	64	45	11	47	M10	5.0
	SRKIN 14x120	63	14	27	34	120	94	45	11	47	M10	5.0
	SRKIN 14x160	63	14	27	34	160	134	45	11	47	M10	5.0
	SRKIN 16x75	63	16	27	34	75	49	-	11	50	-	-
	SRKIN 16x95	63	16	27	34	95	69	44	11	50	M12	6.0
	SRKIN 16x120	63	16	27	34	120	94	44	11	50	M12	6.0
	SRKIN 16x160	63	16	27	34	160	134	44	11	50	M12	6.0
	SRKIN 18x95	63	18	33	42	95	69	57	11	50	M12	6.0
	SRKIN 18x120	63	18	33	42	120	94	57	11	50	M12	6.0
	SRKIN 18x160	63	18	33	42	160	134	57	11	50	M12	6.0
	SRKIN 20x75	63	20	33	41	75	49	-	9	50	-	-
	SRKIN 20x100	63	20	33	42	100	74	57	11	52	M16	8.0
	SRKIN 20x120	63	20	33	42	120	94	57	11	52	M16	8.0
	SRKIN 20x160	63	20	33	42	160	134	57	11	52	M16	8.0
	SRKIN 25x85	63	25	44	53	85	59	-	11	58	-	-

G168 G169 G169 G174 G184

- Use only inductive heating device for T-SHRINK holders

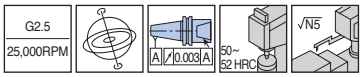
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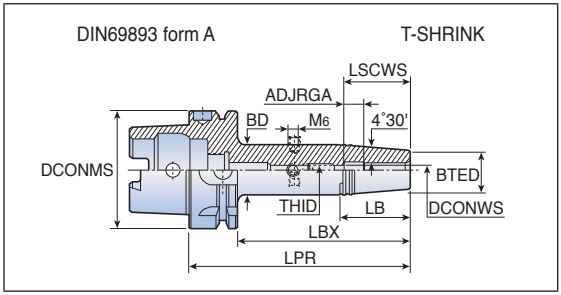
HSK A-SRKIN

T-SHRINK

Thermal shrinking chucks







Designation		Dimension (mm)										
		DCONMS	DCONWS	BTED	BD	LPR	LBX	LB	ADJRGA	LSCWS	THID	Hex key
HSK A 63	**SRKIN 25x115**	63	25	44	53	115	89	55	11	58	M16	8.0
	SRKIN 32x85	63	32	44	53	85	59	-	11	58	-	-
	SRKIN 32x120	63	32	44	53	120	94	55	11	58	M16	8.0
HSK A 100	**SRKIN 6x85**	100	6	21	27	85	56	38	11	36	M5	2.5
	SRKIN 6x120	100	6	21	27	120	91	38	11	36	M5	2.5
	SRKIN 6x160	100	6	21	27	160	131	38	11	36	M6	3.0
	SRKIN 8x85	100	8	21	27	85	56	38	11	36	M6	3.0
	SRKIN 8x120	100	8	21	27	120	91	38	11	36	M6	3.0
	SRKIN 8x160	100	8	21	27	160	131	38	11	36	M6	3.0
	SRKIN 10x90	100	10	24	32	90	61	51	11	42	M8	4.0
	SRKIN 10x120	100	10	24	32	120	91	51	11	42	M8	4.0
	SRKIN 10x160	100	10	24	32	160	131	51	11	42	M8	4.0
	SRKIN 12x95	100	12	24	32	95	66	51	11	47	M10	5.0
	SRKIN 12x120	100	12	24	32	120	91	51	11	47	M10	5.0
	SRKIN 12x160	100	12	24	32	160	131	51	11	47	M10	5.0
	SRKIN 14x95	100	14	27	34	95	66	45	11	47	M10	5.0
	SRKIN 14x120	100	14	27	34	120	91	45	11	47	M10	5.0
	SRKIN 14x160	100	14	27	34	160	131	45	11	47	M10	5.0
	SRKIN 16x100	100	16	27	34	100	71	45	11	50	M12	6.0
	SRKIN 16x120	100	16	27	34	120	91	45	11	50	M12	6.0
	SRKIN 16x160	100	16	27	34	160	131	45	11	50	M12	6.0
	SRKIN 18x100	100	18	33	42	100	71	57	11	50	M12	6.0
	SRKIN 18x160	100	18	33	42	160	131	57	11	50	M12	6.0
	SRKIN 20x105	100	20	33	42	105	76	57	11	52	M16	8.0
	SRKIN 20x160	100	20	33	42	160	131	57	11	52	M16	8.0
	SRKIN 25x115	100	25	44	53	115	86	57	11	58	M16	8.0
	SRKIN 32x120	100	32	44	53	120	91	57	11	58	M16	8.0

G168 G169 G169 G174 G184

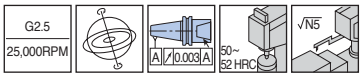
• Use only inductive heating device for T-SHRINK holders

HSK FM-SRKIN

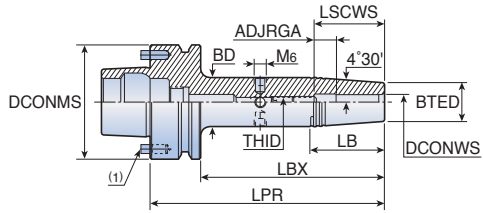
T-SHRINK

Thermal shrinking chucks





DIN69893 FM T-SHRINK



Designation	Dimension (mm)										
	DCONMS	DCONWS	BTED	BD	LPR	LBX	LB	ADJRGA	LSCWS	THID	Hex key
HSK FM 63 SRKIN 6x80	63	6	21	27.0	80	54	38.0	11	36	M5	2.5
SRKIN 8x80	63	8	21	37.0	80	54	38.0	11	36	M6	3.0
SRKIN 10x85	63	10	24	32.0	85	59	50.5	11	42	M8	4.0
SRKIN 12x90	63	12	24	32.0	90	64	50.5	11	47	M10	5.0
SRKIN 14x90	63	14	27	34.0	90	64	44.5	11	47	M10	5.0
SRKIN 16x95	63	16	27	34.0	95	69	44.5	11	50	M12	6.0
SRKIN 18x95	63	18	33	42.0	95	69	57.0	11	50	M12	6.0
SRKIN 20x100	63	20	33	42.0	100	74	57.0	11	52	M16	8.0
SRKIN 25x115	63	25	44	52.7	115	89	55.0	11	58	M16	8.0
SRKIN 32x120	63	32	44	52.7	120	94	55.0	11	58	M16	8.0

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• (1) The driving pins can be removed to turn the toolholder into a standard HSK F 63 type

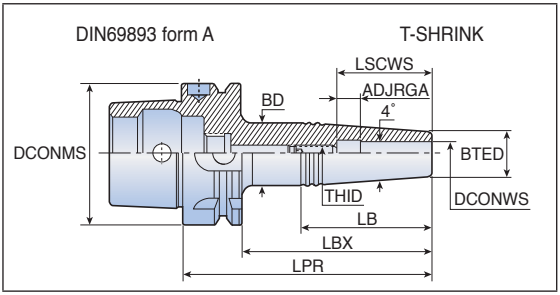
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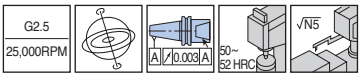
HSK A-SRK

T-SHRINK

Thermal shrinking chucks







Designation		Dimension (mm)										
		DCONMS	DCONWS	BTED	BD	LPR	LBX	LB	ADJRGA	LSCWS	THID	Hex key
HSK A 63	**SRK 3x50**	63	3	10	17	76	50	-	6	16	M6	3.0
	SRK 3x85	63	3	10	21	111	85	79	6	16	M6	3.0
	SRK 4x50	63	4	10	17	76	50	-	6	18	M6	3.0
	SRK 4x85	63	4	10	21	111	85	79	6	18	M6	3.0
	SRK 5x50	63	5	10	17	76	50	-	6	21	M6	3.0
	SRK 5x85	63	5	10	21	111	85	79	6	21	M6	3.0
	SRK 6x50	63	6	11	18	76	50	-	6	24	M8	4.0
	SRK 6x85	63	6	11	22	111	85	79	6	24	M8	4.0
	SRK 8x50	63	8	14	20	76	50	43	11	36	M6	3.0
	SRK 8x85	63	8	14	23	111	85	64	11	36	M6	3.0
	SRK 10x50	63	10	16	23	76	50	-	11	41	M8	4.0
	SRK 10x85	63	10	16	26	111	85	72	11	41	M8	4.0
	SRK 12x50	63	12	20	27	76	50	-	11	43	M8	4.0
	SRK 12x85	63	12	20	30	111	85	72	11	43	M8	4.0


G169


G169


G174



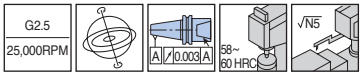
G184

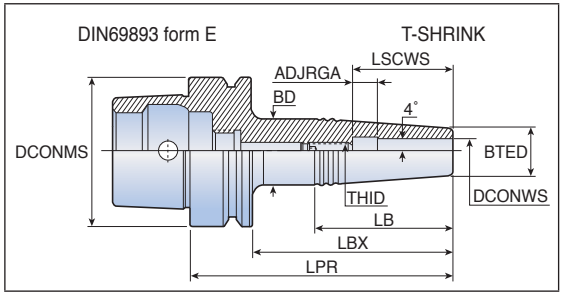
HSK E-SRK

T-SHRINK

Thermal shrinking chucks







Designation		Dimension (mm)										
		DCONMS	DCONWS	BTED	BD	LPR	LBX	LB	ADJRGA	LSCWS	THID	Hex key
HSK E 32	**SRK 3x45**	32	3	10	13	65	45	30.0	6	16	M4	2.0
	SRK 4x45	32	4	10	15	65	45	35.0	6	18	M4	2.0
	SRK 5x45	32	5	10	15	65	45	35.0	10	25	M4	2.0
	SRK 6x45	32	6	11	16	65	45	35.0	10	28	M4	2.0
	SRK 8x45	32	8	14	20	65	45	42.0	10	35	M4	2.0
	SRK 10x45	32	12	16	22	65	45	42.0	10	40	M4	2.0
	SRK 12x45	32	12	20	25	65	45	35.6	8	40	M4	2.0
HSK E 40	**SRK 3x45**	40	3	10	13	65	45	30.0	6	16	M5	2.5
	SRK 3x80	40	3	10	19	100	80	64.0	6	16	M5	2.5
	SRK 4x45	40	4	10	15	65	45	35.0	6	18	M5	2.5
	SRK 4x80	40	4	10	19	100	80	64.0	6	18	M5	2.5
	SRK 5x45	40	5	10	15	65	45	35.0	10	25	M4	2.0
	SRK 5x80	40	5	10	19	100	80	64.0	10	25	M4	2.0
	SRK 6x45	40	6	11	16	65	45	35.0	10	28	M5	2.5
	SRK 6x80	40	6	11	20	100	80	64.0	10	28	M5	2.5
	SRK 8x45	40	8	14	20	65	45	42.0	10	35	M5	2.5
	SRK 8x80	40	8	14	23	100	80	64.0	10	35	M6	3.0
	SRK 10x45	40	10	16	22	65	45	42.0	10	40	M5	2.5
	SRK 10x80	40	10	16	24	100	80	60.0	10	40	M8	4.0
	SRK 12x45	40	12	20	26	65	45	42.0	10	42	M5	2.5
	SRK 12x80	40	12	20	28	100	80	56.0	10	42	M10	5.0
HSK E 50	**SRK 3x45**	50	3	10	15	71	45	36.0	6	16	M5	2.5
	SRK 3x80	50	3	10	19	106	80	64.0	6	16	M5	2.5
	SRK 4x45	50	4	10	15	71	45	36.0	6	18	M5	2.5
	SRK 4x80	50	4	10	19	106	80	64.0	6	18	M5	2.5
	SRK 5x45	50	5	10	15	71	45	36.0	6	21	M6	3.0
	SRK 5x80	50	5	10	15	106	80	64.0	6	21	M6	3.0
	SRK 6x45	50	6	11	16	71	45	36.0	10	28	M5	2.5
	SRK 6x80	50	6	11	20	106	80	64.0	10	28	M5	2.5
	SRK 8x45	50	8	14	20	71	45	43.0	10	35	M6	3.0
	SRK 8x80	50	8	14	23	106	80	64.0	10	35	M6	3.0
	SRK 10x45	50	10	16	22	71	45	42.0	7	37	M6	3.0
	SRK 10x80	50	10	16	24	106	80	60.0	10	40	M8	4.0
	SRK 12x45	50	12	20	26	71	45	42.0	7	39	M6	3.0
	SRK 12x80	50	12	20	28	106	80	57.0	10	42	M10	5.0


G169

G169

G174


G184

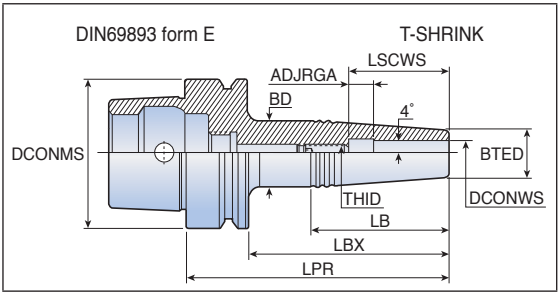
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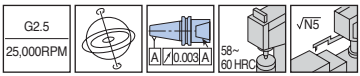
HSK E-SRK

T-SHRINK

Thermal shrinking chucks







Designation	Dimension (mm)										
	DCONMS	DCONWS	BTED	BD	LPR	LBX	LB	ADJRGA	LSCWS	THID	Hex key
HSK E 63 SRK 3x50	63	3	10	17	76	50	48	6	16	M6	3.0
SRK 3x80	63	3	10	19	106	80	64	6	16	M6	3.0
SRK 4x50	63	4	10	17	76	50	48	6	18	M6	3.0
SRK 4x80	63	4	10	19	106	80	64	6	18	M6	3.0
SRK 5x50	63	5	10	15	71	50	47	6	21	M6	3.0
SRK 5x80	63	5	10	19	106	80	64	6	21	M6	3.0
SRK 6x50	63	6	11	18	76	50	48	6	24	M8	4.0
SRK 6x80	63	6	11	20	106	80	64	6	24	M8	4.0
SRK 8x50	63	8	14	21	76	50	48	10	35	M6	3.0
SRK 8x80	63	8	14	23	106	80	64	10	35	M6	3.0
SRK 10x50	63	10	16	23	76	50	48	10	40	M8	4.0
SRK 10x80	63	10	16	24	106	80	60	10	40	M8	4.0
SRK 12x50	63	12	20	27	76	50	48	10	42	M8	4.0
SRK 12x80	63	12	20	28	106	80	57	10	42	M10	5.0
SRK 12x90	63	12	20	28	116	90	57	11	43	M8	4.0


G169


G169


G174



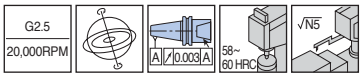
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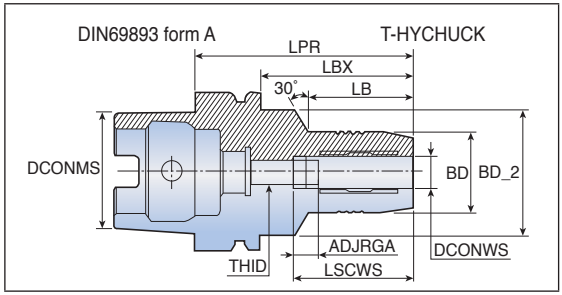
HSK A-THC

THYCHUCK

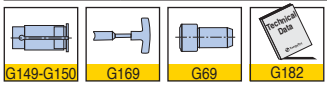
Hydraulic chucks







Designation		Dimension (mm)									
		DCONMS	DCONWS	BD	BD_2	LPR	LBX	LB	ADJRGA	LSCWS	THID
HSK A 40	**THC 6-70**	40	6	28	34	70	50	28	10	37.5	M5
	THC 8-70	40	8	30	34	70	50	28	10	37.5	M6
	THC 10-75	40	10	32	34	75	55	34	10	42.5	M6
	THC 12-85	40	12	34	34	85	60	60	10	47.5	M6
HSK A 50	**THC 6-70**	50	6	28	40	70	44	28	10	37.5	M5
	THC 8-70	50	8	30	40	70	44	28	10	37.5	M6
	THC 10-75	50	10	32	40	75	49	34	10	42.5	M8x1
	THC 12-80	50	12	34	40	85	59	39	10	47.5	M10x1
	THC 16-90	50	16	38	53	90	64	30	10	52.5	M10x1
	THC 20-90	50	20	43	60	90	64	29	10	52.5	M10x1
HSK A 63	**THC 6-70**	63	6	28	50	70	44	24	10	37.5	M5
	THC 8-70	63	8	30	50	70	44	24	10	37.5	M6
	THC 10-80	63	10	32	50	80	54	35	10	42.5	M8x1
	THC 12-85	63	12	34	50	85	59	40	10	47.5	M10x1
	THC 14-85	63	14	36	50	85	59	40	10	47.5	M10x1
	THC 16-90	63	16	38	50	90	64	46	10	52.5	M10x1
	THC 20-90	63	20	43	50	90	64	48	10	52.5	M10x1
	THC 25-120	63	25	57	63	120	94	59	10	61.0	M16x1
	THC 32-125	63	32	63	75	125	99	63	10	65.0	M16x1
HSK A 100	**THC 6-80**(1)	100	6	28	50	80	46	29	10	37.5	M5
	THC 8-75(1)	100	8	30	54	75	46	26	10	37.5	M6
	THC 10-90(1)	100	10	32	50	90	61	42	10	42.5	M8x1
	THC 12-95(1)	100	12	34	50	95	66	47	10	47.5	M10x1
	THC 16-100(1)	100	16	38	50	100	71	53	10	52.5	M10x1
	THC 18-100(1)	100	18	41	50	100	71	53	10	52.5	M10x1
	THC 20-105(1)	100	20	43	50	105	76	59	10	52.5	M10x1
	THC 25-110(1)	100	25	57	63	110	81	62	10	61.0	M16x1
	THC 32-110(1)	100	32	63	75	110	81	62	10	65.0	M16x1



• (1) Balance to G2.5 at 15,000RPM

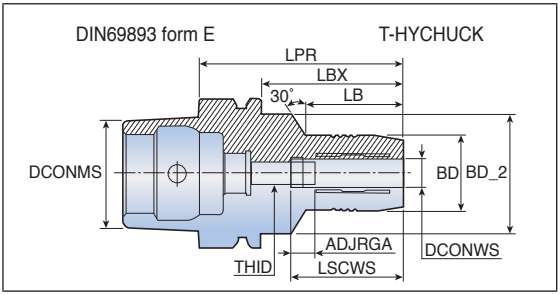
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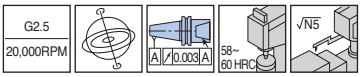
HSK E-THC

THYCHUCK

Hydraulic chucks







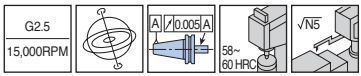
Designation		Dimension (mm)									
		DCONMS	DCONWS	BD	BD_2	LPR	LBX	LB	ADJRGA	LSCWS	THID
HSK E 40	**THC 6-70**	40	6	28	34	70	50	28	10	37.5	M5
	THC 8-70	40	8	30	34	70	50	28	10	37.5	M6
	THC 10-75	40	10	32	34	75	55	34	10	42.5	M6
	THC 12-80	40	12	34	34	80	60	-	10	47.5	M6
HSK E 50	**THC 6-70**	50	6	28	40	70	44	28	10	37.5	M5
	THC 8-70	50	8	30	40	70	44	28	10	37.5	M6
	THC 10-75	50	10	32	40	75	49	34	10	42.5	M8x1
	THC 12-85	50	12	34	40	85	59	44	10	47.5	M10x1
	THC 16-90	50	16	38	53	90	64	30	10	52.5	M10x1
	THC 20-90	50	20	43	60	90	64	29	10	52.5	M10x1

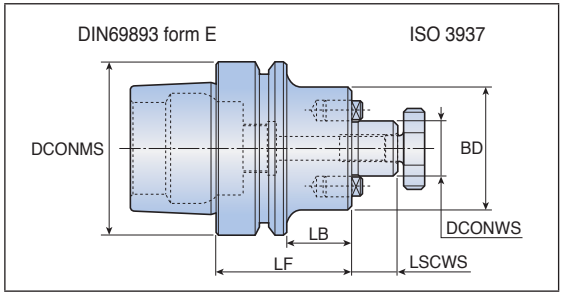
G149-G150 G169 G169 G182

HSK E-SEM

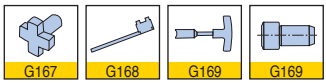
Face mill arbors







Designation	Dimension (mm)					
	DCONMS	DCONWS	BD	LF	LB	LSCWS
HSK E 40 SEM 16x50	40	16	38	50	30	17
SEM 22x50	40	22	47	50	30	19
HSK E 50 SEM 22x60	50	22	47	60	34	19
HSK E 63 SEM 16x50	63	16	38	50	24	17
SEM 22x50	63	22	47	50	24	19

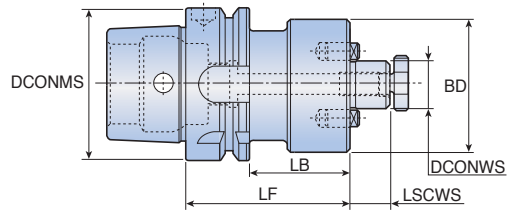


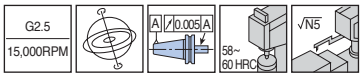
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HSK A-SEM

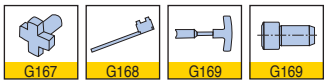
Face mill arbors







Designation		Dimension (mm)					
		DCONMS	DCONWS	BD	LF	LB	LSCWS
HSK A 40	**SEM 22**	40	22	47	50	30	19
	SEM 27	40	27	58	55	35	21
HSK A 50	**SEM 16x50**	50	16	38	50	24	17
	SEM 22x60	50	22	47	60	34	19
	SEM 27x60	50	27	58	60	34	21
HSK A 63	**SEM 16x50**	63	16	38	50	24	17
	SEM 22x50	63	22	47	50	24	19
	SEM 27x60	63	27	58	60	34	21
	SEM 32x60	63	32	66	60	34	24
	SEM 40x60	63	40	82	60	24	27
HSK A 100	**SEM 22x50(1)**	100	22	47	50	21	19
	SEM 27x50(1)	100	27	58	50	21	21
	SEM 32x50(1)	100	32	66	50	21	24
	SEM 40x60(1)	100	40	82	60	31	27
	SEM 50x70(1)	100	50	95	70	41	30

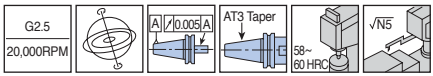


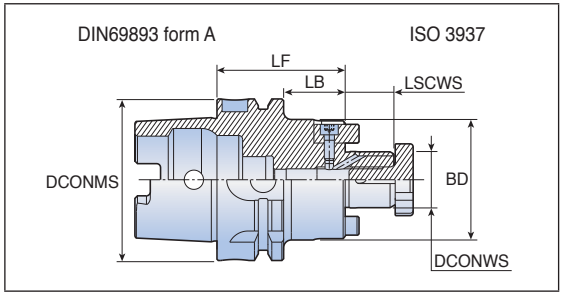
- Wrench not included
- (1) Balance to G6.3 at 12,000RPM

HSK A-SEM-C

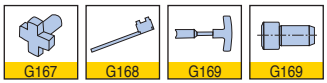
Face mill arbors with internal coolant hole







Designation		Dimension (mm)					
		DCONMS	DCONWS	BD	LF	LB	LSCWS
HSK A 63	**SEM 16x50 C**	63	16	38	50	24	17
	SEM 16x100 C	63	16	38	100	74	17
	SEM 22x50 C	63	22	47	50	24	19
	SEM 22x100 C	63	22	47	100	74	19
	SEM 27x60 C	63	27	58	60	34	21
	SEM 27x100 C	63	27	58	100	74	21
	SEM 32x60 C	63	32	66	60	34	24
HSK A 100	**SEM 16x50 C(1)**	100	16	38	50	21	17
	SEM 16x100 C(1)	100	16	38	100	71	17
	SEM 22x50 C(1)	100	22	47	50	21	19
	SEM 22x100 C(1)	100	22	47	100	71	19
	SEM 27x50 C(1)	100	27	58	50	21	21
	SEM 27x100 C(1)	100	27	58	100	71	21
	SEM 32x50 C(1)	100	32	66	50	21	24
	SEM 32x100 C(1)	100	32	66	100	71	24

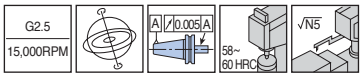


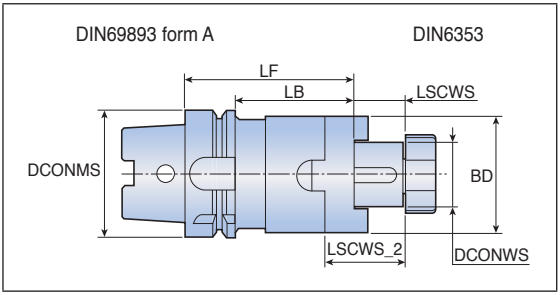
• (1) Balance to G2.5 at 15,000RPM

HSK A-SEMC

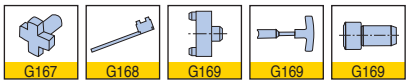
Combi shell end mill arbors







Designation		Dimension (mm)						
		DCONMS	DCONWS	BD	LF	LB	LSCWS	LSCWS_2
HSK A 50	**SEMC 16x50**	50	16	32	50	24	17	27
	SEMC 27x65	50	27	48	65	39	21	33
HSK A 63	**SEMC 16x60**	63	16	32	60	34	17	21
	SEMC 22x60	63	22	40	60	34	19	31
	SEMC 27x60	63	27	48	60	34	21	33
	SEMC 32x60	63	32	58	60	34	24	38
	SEMC 40x70	63	40	70	70	44	27	41
HSK A 100	**SEMC 16x60**	100	16	32	60	31	17	27
	SEMC 22x60	100	22	40	60	31	19	31
	SEMC 27x60	100	27	48	60	31	21	33
	SEMC 32x60	100	32	58	60	31	24	38
	SEMC 40x70	100	40	70	70	41	27	41
	SEMC 50x80	100	50	90	80	51	30	46

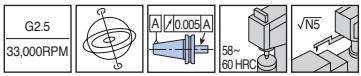


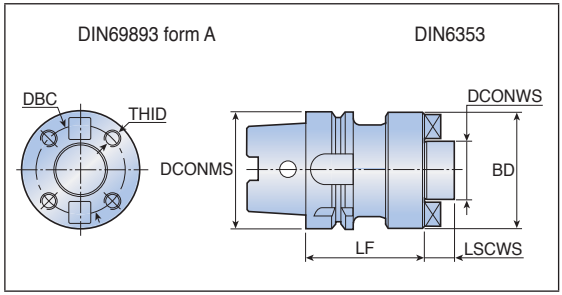
• Wrench not included

HSK A-FM

Face mill arbors







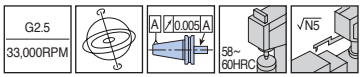
Designation	Dimension (mm)						
	DCONMS	DCONWS	BD	DBC	LF	LSCWS	THID
HSK A 100 FM 60x70	100	60	128	101.6	70	40	M16

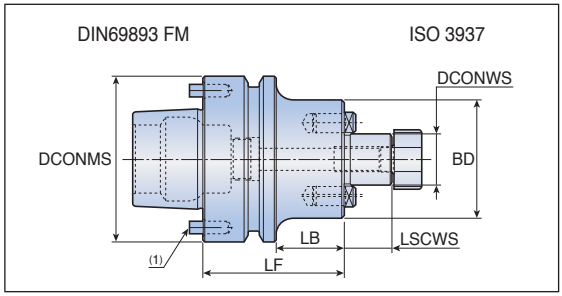
• Wrench not included

HSK FM-SEM

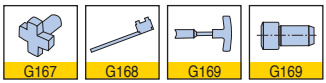
Face mill arbors - HSK high torque







Designation	Dimension (mm)					
	DCONMS	DCONWS	BD	LF	LB	LSCWS
HSK FM 63 SEM 22x60	63	22	47	60	34	19
SEM 27x60	63	27	58	60	34	21



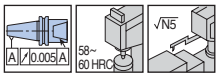
• (1) The driving pins can be removed to turn the toolholder into a standard HSK F 63 type

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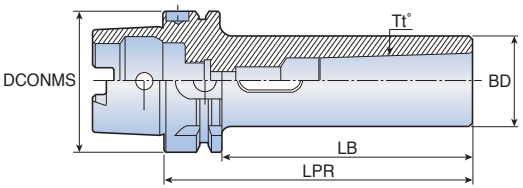
HSK A-MT

Morse taper adapters

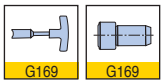




DIN69893 form A DIN6383 / DIN228-2 form D



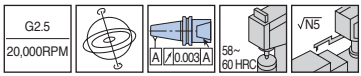
Designation		Dimension (mm)				
		DCONMS	Tt°	BD	LPR	LB
HSK A 50	**MT 1x100**	50	MT1	25	100	74
	MT 2x120	50	MT2	32	120	94
	MT 3x140	50	MT3	40	140	114
HSK A 63	**MT 1x110**	63	MT1	25	110	84
	MT 2x120	63	MT2	32	120	94
	MT 3x140	63	MT3	40	140	114
	MT 4x160	63	MT4	48	160	134
HSK A 100	**MT 1x110**	100	MT1	25	110	81
	MT 2x120	100	MT2	32	120	91
	MT 3x150	100	MT3	40	150	121
	MT 4x170	100	MT4	48	170	141
	MT 5x200	100	MT5	63	200	171

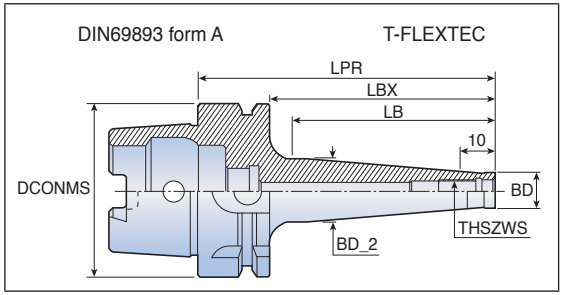


HSK A-ODP

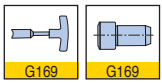
T-FLEXTEC holders







Designation		Dimension (mm)						
		DCONMS	THSZWS	BD	BD_2	LPR	LBX	LB
HSK A 63	**ODP 6x59**	63	M06	9.8	11.5	59	33	25
	ODP 6x109	63	M06	9.8	23.0	109	83	75
	ODP 8x59	63	M08	13.1	15.0	59	33	25
	ODP 8x109	63	M08	13.1	23.0	109	83	75
	ODP 10x59	63	M10	18.0	20.0	59	33	25
	ODP 10x109	63	M10	18.0	28.0	109	83	75
	ODP 12x59	63	M12	21.0	24.0	59	33	25
	ODP 12x109	63	M12	21.0	31.0	109	83	75
	ODP 16x59	63	M16	29.0	34.0	59	33	25
	ODP 16x109	63	M16	29.0	34.0	109	83	75
HSK A 100	**ODP 12x87**(1)	100	M12	23.0	30.0	87	58	50
	ODP 12x137(1)	100	M12	23.0	30.0	137	108	100
	ODP 12x187(1)	100	M12	23.0	40.0	187	158	150
	ODP 12x237(1)	100	M12	23.0	46.0	237	208	200
	ODP 16x87(1)	100	M16	29.0	31.5	87	58	50
	ODP 16x137(1)	100	M16	29.0	41.5	137	108	100
	ODP 16x187(1)	100	M16	29.0	55.0	187	158	150
	ODP 16x237(1)	100	M16	29.0	55.0	237	208	200



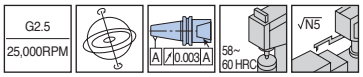
• (1) Balance to G6.3 at 12,000RPM

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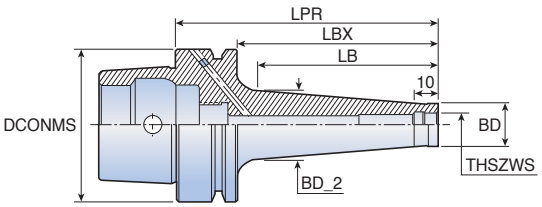
HSK E-ODP

T-FLEXTEC holders

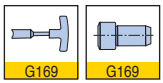




DIN69893 form E T-FLEXTEC



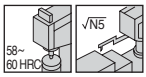
Designation		Dimension (mm)						
		DCONMS	THSZWS	BD	BD_2	LPR	LBX	LB
HSK E 40	**ODP 10x53**	40	M10	18	20	53	33	25
	ODP 10x103	40	M10	18	28	103	83	75
	ODP 12x53	40	M12	21	24	53	33	25
	ODP 12x103	40	M12	21	31	103	83	75
HSK E 50	**ODP 10x59**	50	M10	18	20	59	33	25
	ODP 10x109	50	M10	18	28	109	83	75
	ODP 12x59	50	M12	21	24	59	33	25
	ODP 12x109	50	M12	21	31	109	83	75
	ODP 16x59	50	M16	29	34	59	33	25
	ODP 16x109	50	M16	29	34	109	83	75
HSK E 63	**ODP 10x59**	63	M10	18	20	59	33	25
	ODP 10x109	63	M10	18	28	109	83	75
	ODP 12x59	63	M12	21	24	59	33	25
	ODP 12x109	63	M12	21	31	109	83	75
	ODP 16x59	63	M16	29	34	59	33	25
	ODP 16x109	63	M16	29	34	109	83	75

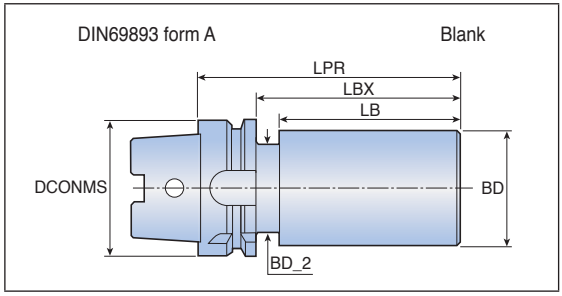


HSK A-B16MN

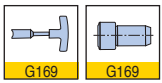
HSK blanks







Designation		Dimension (mm)					
		DCONMS	BD	BD_2	LPR	LBX	LB
HSK A 50	**B16MN 100**	50	53	41.8	100	74	58.0
	B16MN 200	50	53	41.8	200	174	158.0
HSK A 100	**B16MN 200**	100	102	85.0	200	171	154.8
		100	102	85.0	200	171	154.8



- Material: Case hardened alloy steel
  - Shank hardness 58 HRC minimum
  - Nose hardness 35-37 HRC

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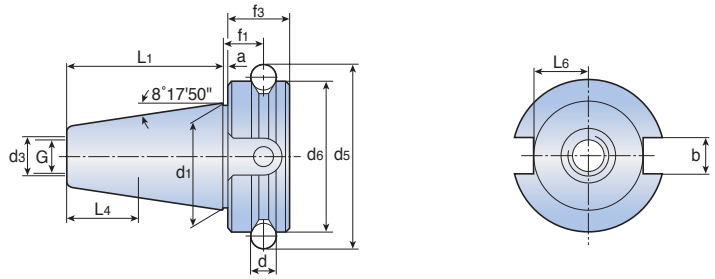
BT MAS



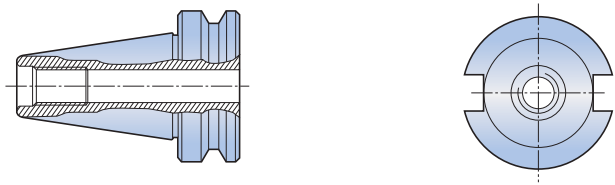
BT MAS 403 Form A/AD/B/ADB

Standard toolholder

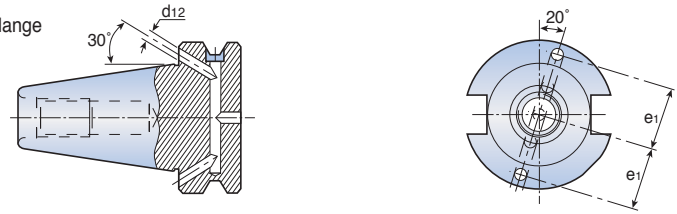
Type “A”



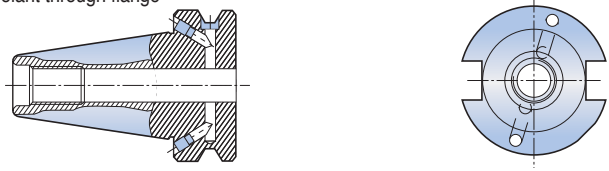
Type “AD”
Coolant hole



Type “B”
Coolant through flange



Type “ADB”
Coolant hole or coolant through flange



Shank	a ±0.1	b (H12)	d	d1	G	d3 (H8)	d5	d6 (H8)
30	2	16.1	8	31.75	M12	12.5	56.144	46
40	2	16.1	10	44.45	M16	17.0	75.679	63
50	3	25.7	15	69.85	M24	25.0	119.020	100

Shank	f1 ±0.1	f3	L1 ±0.2	L4min	L6 -0.2	e1 ±0.1	d12	Taper AT3
30	13.6	20	48.4	24	16.3	21	4	0.002
40	16.6	25	65.4	30	22.6	27	4	0.003
50	23.2	35	101.8	45	35.4	42	6	0.004

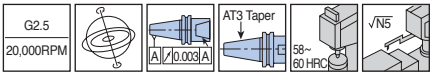
* For non-stock items: Supply condition is subject to availability.
If not available in stock then MOQ (Minimum order qty) will be applicable.

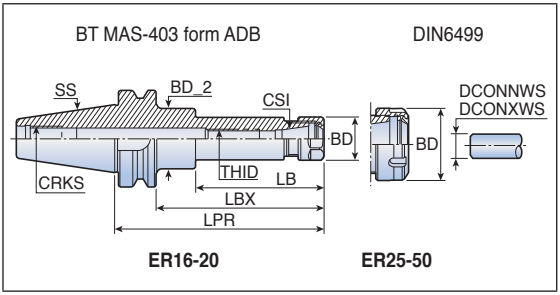
ADVANCE MACHINING
TaeguTec Industry 4.0

BT-ER

ER collet chucks







Designation		Dimension (mm)										
		SS	CSI	DCONNWS	DCONXWS	BD	BD_2	LPR	LBX	LB	CRKS	THID
BT30	**ER 16x70(1)**	30	ER16	0.5	10.0	28	-	70	48	-	M12	M10
	ER 16x100(1)	30	ER16	0.5	10.0	28	-	100	73	-	M12	M10
	ER 20x70(1)	30	ER20	1.0	13.0	34	-	70	48	-	M12	M12
	ER 25x60(1)	30	ER25	1.0	16.0	42	-	60	38	-	M12	M16
	ER 32x60(1)	30	ER32	2.0	20.0	50	-	60	38	-	M12	M18x1.5
BT40	**ER 16x70**	40	ER16	0.5	10.0	28	-	70	43	-	M16	M12
	ER 16x100	40	ER16	0.5	10.0	28	-	100	73	-	M16	M12
	ER 16x150(1)	40	ER16	0.5	10.0	28	40	150	123	85	M16	M12
	ER 16x200(1)	40	ER16	0.5	10.0	28	40	200	173	85	M16	M10
	ER 20x70	40	ER20	1.0	13.0	34	-	70	43	-	M16	M12
	ER 20x100	40	ER20	1.0	13.0	34	-	100	73	-	M16	M12
	ER 20x120	40	ER20	1.0	13.0	34	-	120	93	-	M16	M12
	ER 20x150(1)	40	ER20	1.0	13.0	34	-	150	123	-	M16	M12
	ER 25x60	40	ER25	1.0	13.0	42	-	60	33	-	M16	M16
	ER 25x100	40	ER25	1.0	16.0	42	-	100	73	-	M16	M16
	ER 25x150(1)	40	ER25	1.0	16.0	42	-	150	123	-	M16	M16
	ER 32x60	40	ER32	2.0	20.0	50	-	60	33	-	M16	M22x1.5
	ER 32x100	40	ER32	2.0	20.0	50	-	100	73	-	M16	M22x1.5
	ER 32x150(1)	40	ER32	2.0	20.0	50	-	150	123	-	M16	M22x1.5
	ER 32x200(1)	40	ER32	2.0	20.0	50	-	200	162	-	M17	M22x1.6
	ER 40x80	40	ER40	3.0	26.0	63	-	80	53	-	M16	M28x1.5
	ER 40x100	40	ER40	3.0	26.0	63	-	100	73	-	M16	M28x1.5
	ER 40x150(1)	40	ER40	3.0	26.0	63	-	150	123	-	M16	M28x1.5
	ER 50x90	40	ER50	10.0	34.0	78	-	90	63	-	M16	M28x1.5
BT50	**ER 16x100(1)**	50	ER16	0.5	10.0	28	-	100	62	-	M24	M12
	ER 16x125(1)	50	ER16	0.5	10.0	28	-	125	87	-	M24	M12
	ER 16x150(1)	50	ER16	0.5	10.0	28	-	150	112	-	M24	M12
	ER 16x200(1)	50	ER16	0.5	10.0	28	40	200	162	85	M24	M10
	ER 20x100(1)	50	ER20	1.0	10.0	34	-	100	62	-	M24	M12
	ER 20x125(1)	50	ER20	1.0	13.0	34	-	125	87	-	M24	M12
	ER 20x150(1)	50	ER20	1.0	13.0	34	-	150	112	-	M24	M12
	ER 20x200(1)	50	ER20	1.0	13.0	34	50	200	162	85	M24	M12

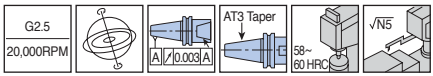
G137-G145 G163-G164 G164-G166 G167 G170

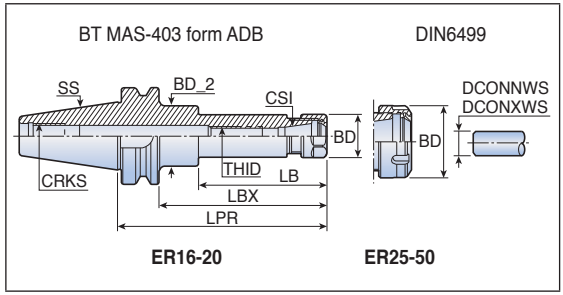
• (1) Balance to G6.3 at 12,000RPM

BT-ER

ER collet chucks







Designation		Dimension (mm)										
		SS	CSI	DCONNWS	DCONXWS	BD	BD_2	LPR	LBX	LB	CRKS	THID
BT50	**ER 25x100**	50	ER25	1.0	16.0	42	-	100	62	-	M24	M16
	ER 25x150	50	ER25	1.0	16.0	42	-	150	112	-	M24	M16
	ER 25x200(1)	50	ER25	1.0	16.0	42	55	200	162	87	M24	M16
	ER 32x100	50	ER32	2.0	20.0	50	-	100	62	-	M24	M22x1.5
	ER 32x125	50	ER32	2.0	20.0	50	-	125	87	-	M24	M22x1.5
	ER 32x150	50	ER32	2.0	20.0	50	-	150	112	-	M24	M22x1.5
	ER 32x200(1)	50	ER32	2.0	20.0	50	63	200	162	88	M24	M22x1.5
	ER 40x100	50	ER40	3.0	26.0	63	-	100	62	-	M24	M28x1.5
	ER 40x150	50	ER40	3.0	26.0	63	-	150	112	-	M24	M28x1.5
	ER 40x200(1)	50	ER40	3.0	26.0	63	-	200	162	-	M24	M28x1.5
	ER 50x100	50	ER50	3.0	26.0	78	-	100	62	-	M24	M36x1.5
	ER 50x150	50	ER50	10.0	34.0	78	-	150	112	-	M24	M36x1.5


G137-G145

G163-G164

G164-G166

G167

G170

• (1) Balance to G6.3 at 12,000RPM

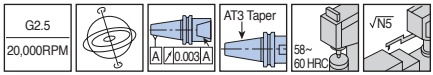
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BT-ER-SHORT

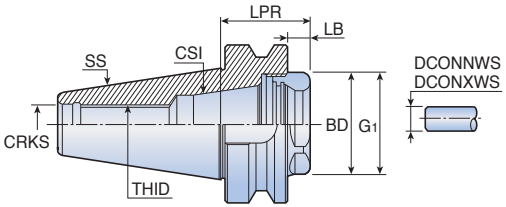
T-SHORT

Short ER collet chucks

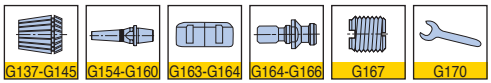




BT MAS-403 form AD T-SHORT



Designation	Dimension (mm)									
	SS	CSI	DCONNWS	DCONXWS	BD	LPR	LB	CRKS	G1	THID
BT30 ER 20 SHORT	30	ER20	1.0	13.0	25	27.2	5.2	M12	M25x1.5	M12
BT40 ER 32 SHORT	40	ER32	2.0	20.0	40	36.5	9.5	M16	M40x1.5	M16
ER 40 SHORT	40	ER40	3.0	26.0	50	46.5	9.5	M16	M50x1.5	M16
BT50 ER 32 SHORT	50	ER32	2.0	20.0	40	47.5	9.5	M24	M40x1.5	M22x1.5
ER 40 SHORT	50	ER40	3.0	26.0	50	47.5	9.5	M24	M50x1.5	M28x1.5

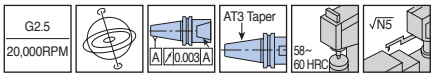


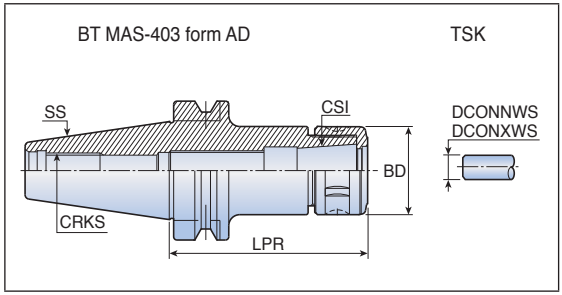
• Add B for coolant through flange

BT-TSK

TSK collet chucks







Designation	Dimension (mm)						
	SS	CSI	DCONNWS	DCONXWS	BD	LPR	CRKS
BT30 TSK 6-90[1]	30	TSK6	1.5	6.0	19.5	90	M12
TSK 10-90[1]	30	TSK10	1.5	10.0	27.5	90	M12
BT40 TSK 6-90	40	TSK6	1.5	6.0	19.5	90	M16
TSK 6-120	40	TSK6	1.5	6.0	19.5	120	M16
TSK 10-90	40	TSK10	1.5	10.0	27.5	90	M16
TSK 10-120	40	TSK10	1.5	10.0	27.5	120	M16
TSK 16-90	40	TSK16	2.5	16.0	40.0	90	M16
TSK 16-120	40	TSK16	2.5	16.0	40.0	120	M16
TSK 25-90	40	TSK25	7.5	25.0	55.0	90	M16
TSK 25-120	40	TSK25	7.5	25.0	55.0	120	M16
BT50 TSK 6-120[1]	50	TSK6	1.5	6.0	19.5	120	M24
TSK 6-165[1]	50	TSK6	1.5	6.0	19.5	165	M24
TSK 6-195[1]	50	TSK6	1.5	6.0	19.5	195	M24
TSK 10-120[1]	50	TSK10	1.5	10.0	27.5	120	M24
TSK 10-165[1]	50	TSK10	1.5	10.0	27.5	165	M24
TSK 10-195[1]	50	TSK10	1.5	10.0	27.5	195	M24
TSK 16-120[1]	50	TSK16	2.5	16.0	40.0	120	M24
TSK 16-165[1]	50	TSK16	2.5	16.0	40.0	165	M24
TSK 16-195[1]	50	TSK16	2.5	16.0	40.0	195	M24
TSK 25-120[1]	50	TSK25	7.5	25.0	55.0	120	M24
TSK 25-165[1]	50	TSK25	7.5	25.0	55.0	165	M24
TSK 25-195[1]	50	TSK25	7.5	25.0	55.0	195	M24

G146-G148 G163-G164 G164-G166 G171 G178

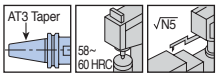
- Add B for coolant through flange
- [1] Balance to G6.3 at 20,000RPM

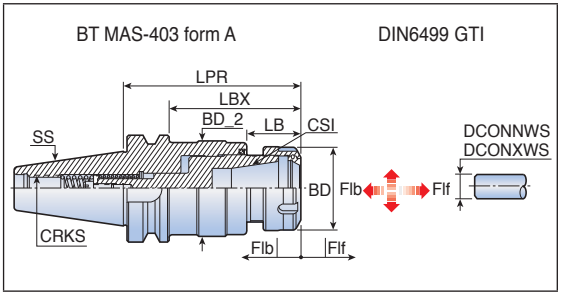
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GTI BT-ER

GTI tap attachments







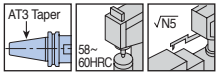
Designation		Dimension (mm)													
		SS	CSI	Tapmin	Tapmax	DCONNWS	DCONXWS	BD	BD_2	LPR	LBX	LB	Flf	Flb	CRKS
GTI BT40	**ER16**	40	ER16	M3	M10	0.5	10.0	28	29.5	84.2	52.7	24.6	8	3	M16
	ER32	40	ER32	M6	M20	2.0	20.0	50	56.5	106.8	79.8	33.0	9	4	M16
	ER40	40	ER40	M6	M28	3.0	26.0	63	56.5	124.8	97.8	51.0	9	4	M16
GTI BT50	**ER16**	50	ER16	M3	M10	0.5	10.0	28	29.5	106.8	68.8	24.6	8	3	M24
	ER32	50	ER32	M6	M20	2.0	20.0	50	56.5	114.2	77.2	33.0	9	4	M24
	ER40	50	ER40	M6	M28	3.0	26.0	63	56.5	133.2	95.2	51.0	9	4	M24

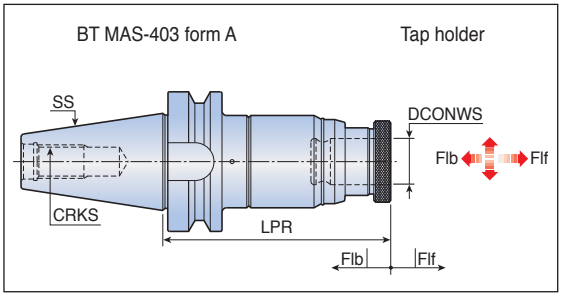
• No coolant should be induced through the tap chuck as it will cause malfunctioning of the mechanism

BT-TC

Tap holders







Designation		Dimension (mm)								
		SS	Tapmin	Tapmax	DCONWS	LPR	Flb	Flf	Tap adapter	CRKS
BT30	**TC 12-105**	30	M3	M12	19	105	6.5	12	TA1	M12
BT40	**TC 12-95**	40	M3	M12	19	95	6.5	12	TA1	M16
	TC 12-110	40	M3	M12	19	110	6.5	12	TA1	M16
	TC 22-127	40	M6	M24	31	127	14.5	13	TA2	M16
BT50	**TC 12-125**	50	M6	M12	19	125	6.5	12	TA1	M24
	TC 22-142	50	M6	M24	31	142	14.5	13	TA2	M24
	TC 38-195	50	M18	M38	48	195	20.0	20	TA3	M24


G137-G145

G161

G163-G164

G164-G166

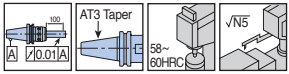
G170

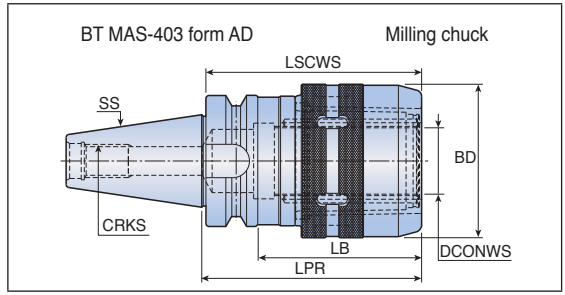

G185

BT-NTMC

Milling chucks







Designation		Dimension (mm)						
		SS	DCONWS	BD	LPR	LB	LSCWS	CRKS
BT30	**NTMC 20-75**	30	20	53	75	51.4	70	M12
	NTMC 25-80	30	25	62	80	58.3	70	M12
BT40	**NTMC 20-80**	40	20	53	80	53	82	M16
	NTMC 20-90	40	20	53	90	63	82	M16
	NTMC 25-90	40	25	62	90	63	85	M16
	NTMC 25-105	40	25	62	105	78	95	M16
	NTMC 32-85	40	32	72	85	56	80	M16
	NTMC 32-105	40	32	72	105	78.5	90	M16
	NTMC 32-120	40	32	72	120	93.5	105	M16
BT50	**NTMC 20-105**	50	20	53	105	67	82	M24
	NTMC 20-135	50	20	53	135	97	82	M24
	NTMC 20-165	50	20	53	165	127	82	M24
	NTMC 25-105	50	25	62	105	67	90	M24
	NTMC 25-135	50	25	62	135	97	90	M24
	NTMC 25-165	50	25	62	165	127	90	M24
	NTMC 32-105	50	32	74	105	67	110	M24
	NTMC 32-120	50	32	74	120	82	125	M24
	NTMC 32-135	50	32	74	135	97	125	M24
	NTMC 32-165	50	32	74	165	127	125	M24
	NTMC 42-120	50	42	94	120	82	125	M24
	NTMC 42-135	50	42	94	135	97	130	M24
	NTMC 42-165	50	42	94	165	127	135	M24

G151-G153 G164-G166 G170 G180

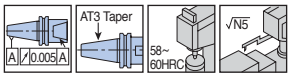
• Spanner not included

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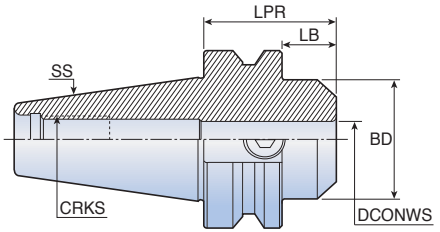
BT-EM

Short end mill holders





BT MAS-403 form AD DIN6359 / DIN1835 form B



Designation		Dimension (mm)					
		SS	DCONWS	BD	LPR	LB	CRKS
BT40	**EM 10x45**	40	10	35	45	18	M16
	EM 12x45	40	12	42	45	18	M16
	EM 14x45	40	14	44	45	18	M16
	EM 16x45	40	16	48	45	18	M16
	EM 18x45	40	18	50	45	18	M16
	EM 20x45	40	20	52	45	18	M16
	EM 25x45	40	25	63	45	-	M16

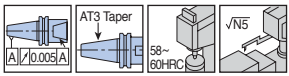


• Add B for coolant through flange

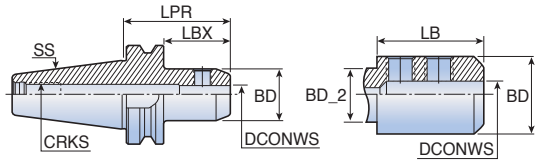
BT-EM

End mill holders





BT MAS-403 form ADB DIN6359 / DIN1835 form B



For DCONWS ≥ 25

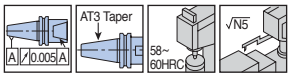
Designation	Dimension (mm)							
	SS	DCONWS	BD	BD_2	LPR	LBX	LB	CRKS
BT30 EM 6x50	30	6	25	-	50	28	-	M12
EM 8x60	30	8	28	-	60	38	-	M12
EM 10x60	30	10	35	-	60	38	-	M12
EM 12x60	30	12	42	-	60	38	-	M12
EM 14x60	30	14	44	-	60	38	-	M12
EM 16x60	30	16	46	-	60	38	-	M12
EM 18x60	30	18	50	-	60	38	-	M12
EM 20x80	30	20	52	-	80	58	-	M12
BT40 EM 6x50	40	6	25	-	50	23	-	M16
EM 8x50	40	8	28	-	50	23	-	M16
EM 10x65	40	10	35	-	65	38	-	M16
EM 12x65	40	12	42	-	65	38	-	M16
EM 14x65	40	14	44	-	65	38	-	M16
EM 16x65	40	16	48	-	65	38	-	M16
EM 18x65	40	18	50	-	65	38	-	M16
EM 20x75	40	20	52	-	75	48	-	M16
EM 25x105	40	25	65	61	105	78	68	M16
EM 32x110	40	32	72	61	110	83	73	M16
BT50 EM 6x70	50	6	25	-	70	32	-	M24
EM 8x70	50	8	28	-	70	32	-	M24
EM 10x70	50	10	35	-	70	32	-	M24
EM 12x100	50	12	42	-	100	62	-	M24
EM 14x100	50	14	44	-	100	62	-	M24
EM 16x100	50	16	48	-	100	62	-	M24
EM 18x100	50	18	50	-	100	62	-	M24
EM 20x100	50	20	52	-	100	62	-	M24
EM 25x115	50	25	65	-	115	77	-	M24
EM 32x115	50	32	72	-	115	77	-	M24
EM 40x115	50	40	90	-	115	77	-	M24
EM 50x125	50	50	100	-	125	87	-	M24

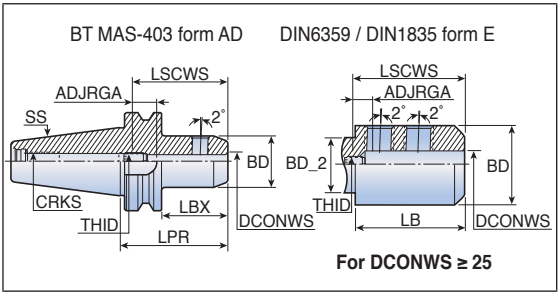


BT-EM-E

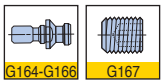
End mill holders - Whistle notch







Designation		Dimension (mm)											
		SS	DCONWS	BD	BD_2	LPR	LBX	LB	ADJRGA	LSCWS	CRKS	THID	Hex key
BT40	**EM 6x50E**	40	6	25	-	50	23	-	10	45	M16	M5	2.5
	EM 10x65E	40	10	35	-	65	38	-	10	49	M16	M8	4.0
	EM 12x65E	40	12	42	-	65	38	-	10	54	M16	M10	5.0
	EM 14x65E	40	14	44	-	65	38	-	10	54	M16	M10	5.0
	EM 16x65E	40	16	48	-	65	38	-	10	57	M16	M12	6.0
	EM 18x65E	40	18	50	-	65	38	-	10	57	M16	M12	6.0
	EM 20x75E	40	20	52	-	75	48	-	10	59	M16	M16	8.0
	EM 25x105E	40	25	65	61	105	78	68	10	64	M16	M20x1.5	10.0
	EM 32x110E	40	32	72	61	110	83	73	10	68	M16	M20x1.5	10.0
BT50	**EM 6x70E**	50	6	25	-	70	32	-	10	45	M24	M5	2.5
	EM 10x70E	50	10	35	-	70	32	-	10	49	M24	M8	4.0
	EM 12x100E	50	12	42	-	100	62	-	10	54	M24	M10	5.0
	EM 14x100E	50	14	44	-	100	62	-	10	54	M24	M10	5.0
	EM 16x100E	50	16	48	-	100	62	-	10	57	M24	M12	6.0
	EM 18x100E	50	18	50	-	100	62	-	10	57	M24	M12	6.0
	EM 20x100E	50	20	52	-	100	62	-	10	59	M24	M16	8.0
	EM 25x115E	50	25	65	-	115	77	-	10	64	M24	M20x1.5	10.0
	EM 32x115E	50	32	72	-	115	77	-	10	68	M24	M20x1.5	10.0
	EM 40x115E	50	40	90	-	115	77	-	10	78	M24	M20x1.5	10.0
	EM 50x125E	50	50	98	-	125	67	-	10	88	M24	M20x1.5	10.0



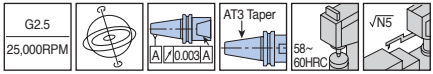
- Add B for coolant through flange

BT-SRKIN

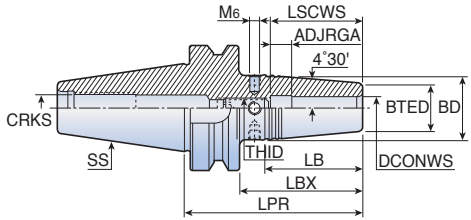
T-SHRINK

Thermal shrinking chucks





BT MAS-403 form AD T-SHRINK



	Designation	Dimension (mm)											
		SS	DCONWS	BTED	BD	LPR	LBX	LB	ADJRGA	LSCWS	CRKS	THID	Hex key
BT40	**SRKIN 6x90**	40	6	21	27	90	63	38.0	10	36	M16	M5	2.5
	SRKIN 8x90	40	8	21	27	90	63	38.0	10	36	M16	M6	3.0
	SRKIN 10x90	40	10	24	32	90	63	50.5	10	42	M16	M8	4.0
	SRKIN 12x90	40	12	24	32	90	63	50.5	10	47	M16	M10	5.0
	SRKIN 14x90	40	14	27	34	90	63	44.5	10	47	M16	M10	5.0
	SRKIN 16x90	40	16	27	34	90	63	44.5	10	50	M16	M12	6.0
	SRKIN 18x90	40	18	33	42	90	63	57.0	10	50	M16	M12	6.0
	SRKIN 20x90	40	20	33	42	90	63	57.0	10	52	M16	M16	8.0
	SRKIN 25x110	40	25	44	53	110	83	57.0	10	58	M16	M16	8.0
BT50	**SRKIN 6x100**(1)	50	6	21	26	100	62	32.0	10	36	M24	M5	2.5
	SRKIN 8x100(1)	50	8	21	27	100	62	38.0	10	36	M24	M6	3.0
	SRKIN 10x100(1)	50	10	24	32	100	62	51.0	10	42	M24	M8	4.0
	SRKIN 12x100(1)	50	12	24	32	100	62	51.0	10	47	M24	M10	5.0
	SRKIN 14x100(1)	50	14	27	34	100	62	44.5	10	47	M24	M10	5.0
	SRKIN 16x100(1)	50	16	27	34	100	62	44.5	10	50	M24	M12	6.0
	SRKIN 18x100(1)	50	18	33	42	100	62	57.0	10	50	M24	M12	6.0
	SRKIN 20x100(1)	50	20	33	42	100	62	57.0	10	52	M24	M16	8.0
	SRKIN 25x120(1)	50	25	44	53	120	82	57.0	10	58	M24	M16	8.0
	SRKIN 32x120(1)	50	32	44	53	120	82	57.0	10	58	M24	M16	8.0

G164-G166 G168 G174 G184

• (1) Balance to G2.5 at 20,000RPM

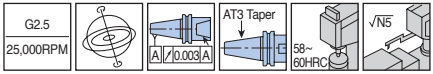
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BT-SRK

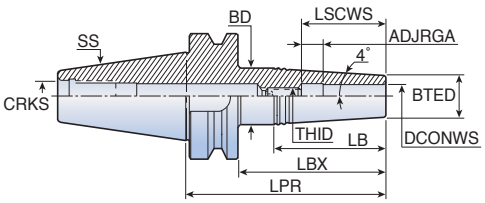
T-SHRINK

Thermal shrinking chucks





BT MAS-403 form AD T-SHRINK



Designation		Dimension (mm)											
		SS	DCONWS	BD	BTED	LPR	LBX	LB	ADJRGA	LSCWS	CRKS	THID	Hex key
BT40	**SRK 3x50**	40	3	15.0	10	77	50	35.5	6	16	M16	M6	3.0
	SRK 3x85	40	3	19.0	10	112	85	64.1	6	16	M16	M6	3.0
	SRK 4x50	40	4	15.0	10	77	50	35.5	6	18	M16	M6	3.0
	SRK 4x85	40	4	19.0	10	112	85	64.1	6	18	M16	M6	3.0
	SRK 5x50	40	5	15.0	10	77	50	35.5	6	21	M16	M6	3.0
	SRK 5x85	40	5	19.0	10	112	85	64.1	6	21	M16	M6	3.0
	SRK 6x50	40	6	16.0	11	77	50	35.5	6	24	M16	M8	4.0
	SRK 6x85	40	6	20.0	11	112	85	64.1	6	24	M16	M8	4.0
	SRK 8x50	40	8	20.0	14	77	50	42.5	6	31	M16	M10	5.0
	SRK 8x85	40	8	23.0	14	112	85	63.9	6	31	M16	M10	5.0
	SRK 10x50	40	10	22.0	16	77	50	42.4	6	36	M16	M12	6.0
	SRK 10x85	40	10	24.5	16	112	85	60.2	6	36	M16	M12	6.0
	SRK 12x50	40	12	26.0	20	77	50	42.3	10	42	M16	M10	5.0
	SRK 12x85	40	12	28.0	20	112	85	56.6	10	42	M16	M10	5.0


G164-G166


G174



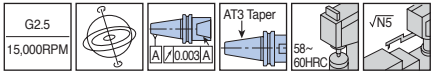
G184

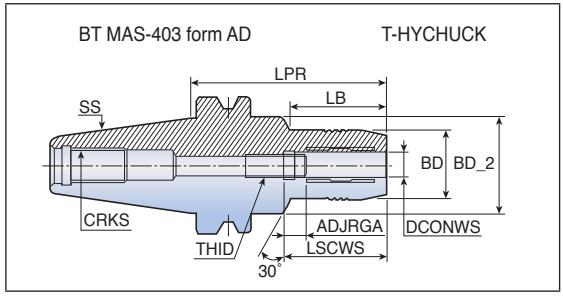
BT-THC

THYCHUCK

Hydraulic chucks







Designation		Dimension (mm)									
		SS	DCONWS	BD	BD_2	LPR	LB	ADJRGA	LSCWS	THID	CRKS
BT30	**THC 6-70**[1]	30	6	28	45	70	28.0	10	37.5	M5	M12
	THC 8-70[1]	30	8	30	45	70	28.0	10	37.5	M6	M12
	THC 10-75[1]	30	10	32	45	75	38.0	10	42.5	M8x1	M12
	THC 12-85[1]	30	12	34	45	85	44.0	10	47.5	M10x1	M12
	THC 14-85[1]	30	14	36	45	85	44.0	10	47.5	M10x1	M12
	THC 16-90[1]	30	16	38	45	90	46.0	10	52.5	M10x1	M12
	THC 20-85[1]	30	20	43	63	85	38.0	10	52.5	M10x1	M12
	THC 20-90[1]	30	20	43	-	90	68.0	10	52.5	M10x1	M12
BT40	**THC 6-65**	40	6	28	50	65	23.0	10	37.5	M5	M16
	THC 6-95	40	6	28	50	65	43.0	10	37.5	M5	M16
	THC 8-95	40	8	30	50	95	44.0	10	37.5	M6	M16
	THC 10-95	40	10	32	50	95	44.0	10	42.5	M8x1	M16
	THC 12-95	40	12	34	50	95	44.0	10	47.5	M10x1	M16
	THC 14-95	40	14	36	50	95	44.0	10	47.5	M10x1	M16
	THC 16-95	40	16	38	50	95	46.0	10	52.5	M10x1	M16
	THC 16-140	40	16	38	50	140	47.5	10	52.5	M10x1	M16
	THC 20-95	40	20	43	50	95	48.0	10	52.5	M10x1	M16
	THC 25-100	40	25	57	-	100	73.0	10	61.0	M16x1	M16
	THC 25-135	40	25	57	-	135	108.0	10	61.0	M16x1	M16
	THC 32-105	40	32	63	-	105	78.0	10	61.0	M16x1	M16


G149-G150


G164-G166



G182

• [1] Balance to G2.5 at 20,000RPM

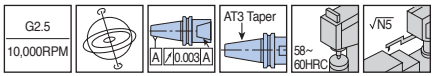
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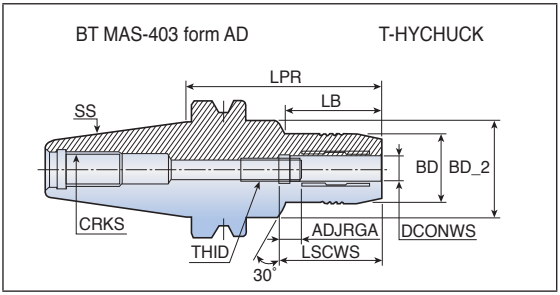
BT-THC

THYCHUCK

Hydraulic chucks







Designation		Dimension (mm)									
		SS	DCONWS	BD	BD_2	LPR	LB	ADJRGA	LSCWS	THID	CRKS
BT50	THC 6-90	50	6	28	50	90	32	10	37.5	M5	M24
	THC 6-120	50	6	28	50	120	38	10	37.5	M5	M24
	THC 10-90	50	10	32	50	90	32	10	42.5	M8x1	M24
	THC 10-120	50	10	32	50	120	42	10	42.5	M8x1	M24
	THC 12-90	50	12	34	50	90	32	10	47.5	M8x1	M24
	THC 12-120	50	12	34	50	120	44	10	47.5	M8x1	M24
	THC 14-90	50	14	36	50	90	32	10	47.5	M10x1	M24
	THC 16-90	50	16	38	50	90	32	10	52.5	M10x1	M24
	THC 20-90	50	20	43	50	90	32	10	52.5	M10x1	M24
	THC 20-120	50	20	43	50	120	48	10	52.5	M10x1	M24
	THC 20-140	50	20	43	50	140	48	10	52.5	M10x1	M24
	THC 25-105	50	25	57	-	105	67	10	61.0	M16x1	M24
	THC 25-150	50	25	57	-	150	112	10	61.0	M16x1	M24
	THC 32-90	50	32	63	-	90	52	10	65.0	M16x1	M24
	THC 32-115	50	32	63	-	115	77	10	65.0	M16x1	M24
	THC 32-135	50	32	63	-	135	97	10	65.0	M16x1	M24
	THC 32-150	50	32	63	-	150	112	10	65.0	M16x1	M24


G149-G150


G164-G166

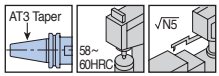


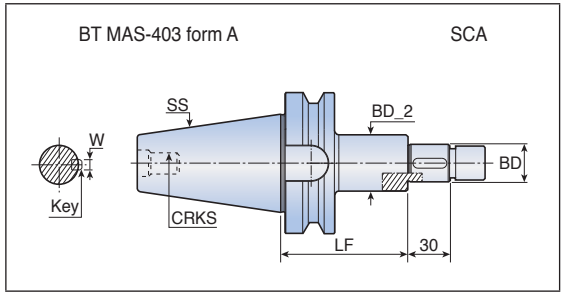
G182

BT-SCA

Slotting cutter arbors







Designation	Dimension (mm)					
	SS	BD	BD_2	LF	W	CRKS
BT40 - SCA-22(22.225)-75	40	22(22.225)	34	75	6(3.18)	M16
SCA-22-120	40	22	34	120	6(3.18)	M16
SCA-27(25.4)-75	40	27(25.4)	40	75	7(6.35)	M16
SCA-27-120	40	27	40	120	7(6.35)	M16
SCA-32(31.75)-90	40	32(31.75)	46	90	8(7.92)	M16
SCA-22(22.225)-90	40	22(22.225)	34	90	6(3.18)	M24
BT50 - SCA-22-135	50	22	34	135	6(3.18)	M24
SCA-27(25.4)-90	50	27(25.4)	40	90	7(6.35)	M24
SCA-27-135	50	27	40	135	7(6.35)	M24
SCA-32(31.75)-90	50	32(31.75)	46	90	8(7.92)	M24
SCA-40(38.1)-90	50	40(38.1)	55	90	10(9.52)	M24
SCA-50-90	50	50	68	90	12	M24



G164-G166

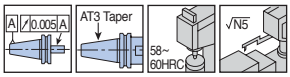
• Washers & key are included (Each 3, 5, 7, 8, 10, 12mm)

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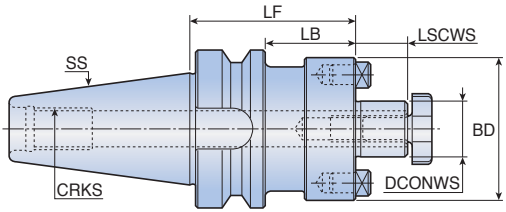
BT-SEM

Face mill arbors

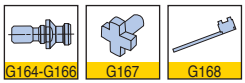




BT MAS-403 form ADB ISO 3937



Designation	Dimension (mm)						
	SS	DCONWS	BD	LF	LB	LSCWS	CRKS
BT30 SEM 16x50	30	16	38	50	28	17	M12
SEM 22x50	30	22	47	50	28	19	M12
SEM 27x50	30	27	58	50	18	21	M12
BT40 SEM 16x60	40	16	38	60	33	17	M16
SEM 16x120	40	16	38	120	93	17	M16
SEM 22x60	40	22	47	60	33	19	M16
SEM 22x120	40	22	47	120	93	19	M16
SEM 27x45	40	27	58	45	18	21	M16
SEM 27x105	40	27	58	105	78	21	M16
SEM 32x60	40	32	65	60	23	24	M16
SEM 32x75	40	32	65	75	36	24	M16
SEM 40x60	40	40	82	60	23	27	M16
SEM 40x75	40	40	82	75	38	27	M16
BT50 SEM 16x75	50	16	38	75	37	17	M24
SEM 16x120	50	16	38	120	82	17	M24
SEM 22x50x220	50	22	50	220	182	19	M24
SEM 22x64x320	50	22	64	320	282	19	M24
SEM 22x75	50	22	47	75	37	19	M24
SEM 22x120	50	22	47	120	82	19	M24
SEM 27x60	50	27	58	60	22	21	M24
SEM 27x105	50	27	58	105	67	21	M24
SEM 32x48	50	32	66	48	10	24	M24
SEM 32x75	50	32	66	75	37	24	M24
SEM 40x48	50	40	82	48	10	27	M24
SEM 40x75	50	40	82	75	37	27	M24

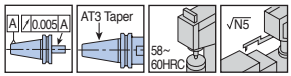


• Wrench not included

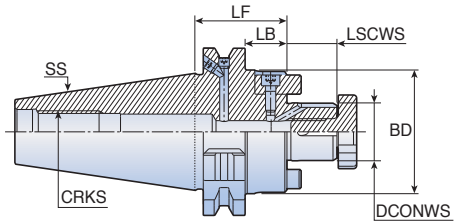
BT-SEM-C

Face mill arbors with internal coolant hole





BT MAS-403 form ADB ISO 3937



Designation		Dimension (mm)						
		SS	DCONWS	BD	LF	LB	LSCWS	CRKS
BT40	**SEM 16x60C**	40	16	38	60	33	17	M16
	SEM 16x100C	40	16	38	100	73	17	M16
	SEM 22x60C	40	22	47	60	33	19	M16
	SEM 22x100C	40	22	47	100	73	19	M16
	SEM 27x45C	40	27	58	45	18	21	M16
	SEM 27x100C	40	27	58	100	73	21	M16
	SEM 32x60C	40	32	66	60	33	24	M16
BT50	**SEM 16x75C**	50	16	38	75	37	17	M24
	SEM 16x100C	50	16	38	100	62	17	M24
	SEM 22x75C	50	22	47	75	37	19	M24
	SEM 22x100C	50	22	47	100	62	19	M24
	SEM 27x60C	50	27	58	60	22	21	M24
	SEM 27x100C	50	27	58	100	62	21	M24
	SEM 32x75C	50	32	66	75	37	24	M24
	SEM 32x100C	50	32	66	100	62	24	M24
BT50	**SEM 22x48x220C**	50	22	48	220	182	19	M24
	SEM 22x61x320C	50	22	61	320	282	19	M24
	SEM 27x61x320C	50	27	61	320	282	21	M24
	SEM 32x78x390C	50	32	78	390	352	24	M24







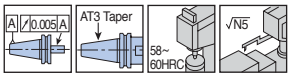
- If the “B type” option is required, the plug screw must be removed from the flange cooling hole (Use a 2mm hex key)
- Wrench not included

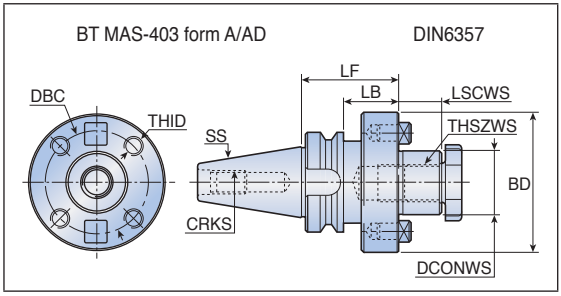
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BT-FM

Face mill arbors







Designation	Dimension (mm)									
	SS	DCONWS	BD	DBC	LF	LB	LSCWS	CRKS	THID	THSZWS
BT40 FM 40(1)	40	40	88	66.7	60	22	27	M16	M12	M20
BT50 FM 40(1)	50	40	88	66.7	50	12	27	M24	M12	M20
FM 60(2)	50	60	128	101.6	88	40	38	M24	M16	-

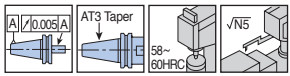
G164-G166 G167 G168

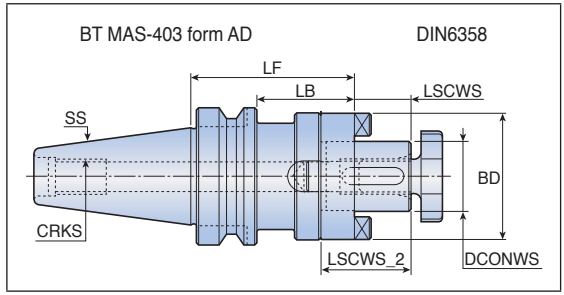
- Wrench not included
- (1) Form AD
- (2) Form A

BT-SEMC

Combi shell end mill arbors







Designation	Dimension (mm)							
	SS	DCONWS	BD	LF	LB	LSCWS	LSCWS_2	CRKS
BT40 SEMC 16x50	40	16	32	50	23	17	27	M16
SEMC 16x100	40	16	32	100	73	17	27	M16
SEMC 22x53	40	22	40	53	26	19	31	M16
SEMC 22x100	40	22	40	100	73	19	31	M16
SEMC 27x55	40	27	48	55	28	21	33	M16
SEMC 27x100	40	27	48	100	73	21	33	M16
SEMC 32x60	40	32	58	60	33	24	38	M16
SEMC 32x100	40	32	58	100	73	24	38	M16
SEMC 40x80	40	40	70	80	53	27	41	M16
BT50 SEMC 16x100	50	16	32	100	62	17	27	M24
SEMC 16x150	50	16	32	150	112	17	27	M24
SEMC 22x68	50	22	40	68	30	19	31	M24
SEMC 22x100	50	22	40	100	62	19	31	M24
SEMC 22x150	50	22	40	150	112	19	31	M24
SEMC 27x78	50	27	48	78	40	21	33	M24
SEMC 27x100	50	27	48	100	62	21	33	M24
SEMC 27x150	50	27	48	150	112	21	33	M24
SEMC 32x78	50	32	58	78	40	24	38	M24
SEMC 32x100	50	32	58	100	62	24	38	M24
SEMC 32x150	50	32	58	150	112	24	38	M24
SEMC 40x78	50	40	70	78	40	27	41	M24
SEMC 40x100	50	40	70	100	62	27	41	M24
SEMC 40x150	50	40	70	150	112	27	41	M24
SEMC 50x79	50	50	90	79	41	30	46	M24
SEMC 50x150	50	50	90	150	112	30	46	M24









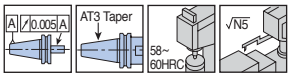
• Wrench not included

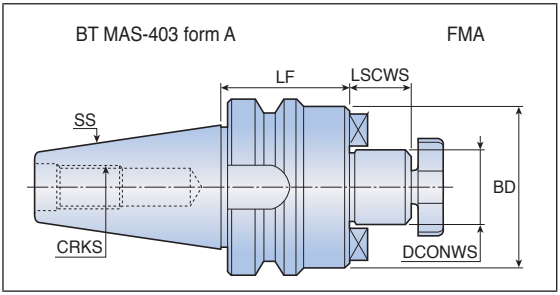
ADVANCE MACHINING
TaeguTec Industry 4.0

BT-FMA

Face mill arbors







Designation		Dimension (mm)						
		SS	DCONWS	BD	LF	LSCWS	CRKS	Mounting screw
BT40	**FMA 25.4-45L**	40	25.400	50.00	45	22	M16	MBA M12
	FMA 25.4-90L	40	25.400	50.00	90	22	M16	MBA M12
	FMA 31.75-45L	40	31.750	60.00	45	30	M16	MBA M16
	FMA 31.75-75L	40	31.750	60.00	75	30	M16	MBA M16
	FMA 38.1-60L	40	38.100	78.00	60	34	M16	MBA M20
BT50	**FMA 25.4-45L**	50	25.400	50.00	45	22	M24	MBA M12
	FMA 25.4-90L	50	25.400	50.00	90	22	M24	MBA M12
	FMA 25.4-150L	50	25.400	50.00	150	22	M24	MBA M12
	FMA 31.75-45L	50	31.750	60.00	45	30	M24	MBA M16
	FMA 31.75-75L	50	31.750	60.00	75	30	M24	MBA M16
	FMA 31.75-105L	50	31.750	60.00	105	30	M24	MBA M16
	FMA 38.1-45L	50	38.100	80.00	45	34	M24	MBA M20
	FMA 38.1-75L	50	38.100	80.00	75	34	M24	MBA M20
	FMA 50.8-45L	50	50.800	98.00	45	36	M24	MBA M24
	FMA 50.8-75L	50	50.800	98.00	75	36	M24	MBA M24
	FMA 47.625-75L	50	47.625	128.57	75	38	M24	SH M16x2x40

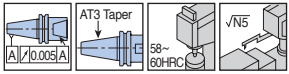

G164-G166


G168

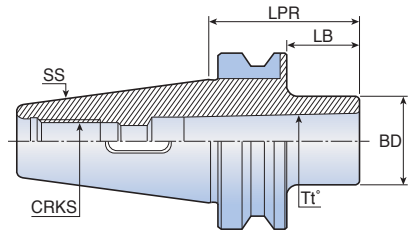
BT-MT

Morse taper adapters





BT MAS-403 form A DIN6383 / DIN228-2 form D



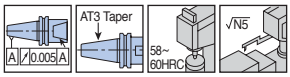
Designation	Dimension (mm)					
	SS	Tt°	BD	LPR	LB	CRKS
BT30 MT 1x45	30	MT1	25	45	23	M12
MT 2x60	30	MT2	32	60	38	M12
BT40 MT 1x45	40	MT1	25	45	25	M16
MT 1x120	40	MT1	25	120	25	M16
MT 2x60	40	MT2	32	60	32	M16
MT 2x120	40	MT2	32	120	32	M16
MT 3x75	40	MT3	40	75	40	M16
MT 3x139	40	MT3	40	139	40	M16
MT 4x95	40	MT4	50	95	50	M16
BT50 MT 1x45	50	MT1	25	45	7	M24
MT 1x120	50	MT1	25	120	82	M24
MT 2x45	50	MT2	32	45	7	M24
MT 2x135	50	MT2	32	135	97	M24
MT 2x180	50	MT2	32	180	142	M24
MT 3x45	50	MT3	40	45	7	M24
MT 3x150	50	MT3	40	150	112	M24
MT 3x180	50	MT3	40	180	142	M24
MT 4x75	50	MT4	50	75	37	M24
MT 4x180	50	MT4	50	180	142	M24
MT 5x105	50	MT5	70	105	67	M24

G164-G166

BT-MT-DRW

Morse taper adapters





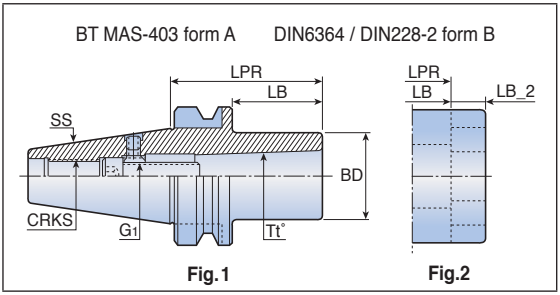


Fig.1 **Fig.2**

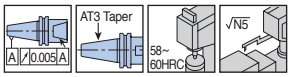
Designation		Dimension (mm)								Fig.
		SS	Tt°	BD	LPR	LB	LB_2	CRKS	G1	
BT40	**MT1 DRW**	40	MT1	25	50	23	-	M16	M6	1
	MT2 DRW	40	MT2	32	50	23	-	M16	M10	1
	MT3 DRW	40	MT3	40	70	43	-	M16	M12	1
	MT4 DRW(1)	40	MT4	63	95	68	15	M16	M16	2
BT50	**MT1 DRW**	50	MT1	25	45	7	-	M24	M6	1
	MT2 DRW	50	MT2	32	60	22	-	M24	M10	1
	MT3 DRW	50	MT3	40	65	27	-	M24	M12	1
	MT4 DRW(1)	50	MT4	63	70	32	15	M24	M16	2
	MT5 DRW(1)	50	MT5	78	100	62	18	M24	M20	2

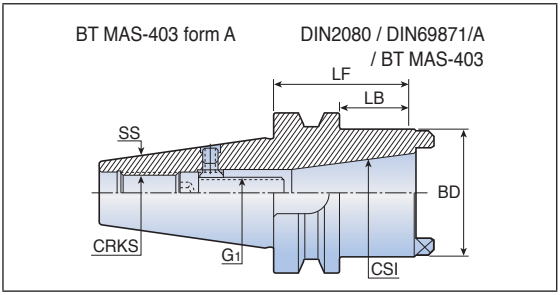
• (1) DIN2201

BT-AD

Adapters







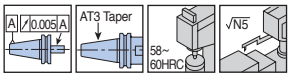
Designation		Dimension (mm)						
		SS	CSI	BD	LF	LB	CRKS	G1
BT50	**AD 40**	50	DIN 2080	63	75	32	M24	M16
	AD BT/SK 40	50	DIN 69871/A, BT MAS	66	75	37	M24	M16

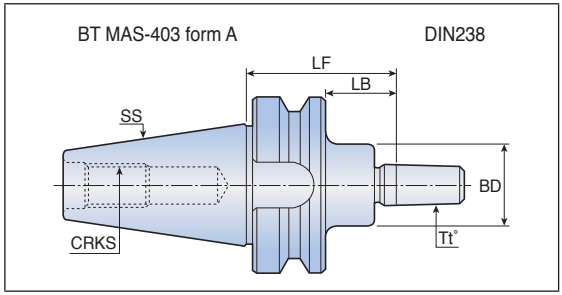
G164-G166

BT-DC

Drill chuck arbors







Designation	Dimension (mm)					
	SS	Tt°	BD	LF	LB	CRKS
BT30 DC B12x30	30	B12	-	30	8.0	M12
DC B16x30	30	B16	-	30	8.0	M12
BT40 DC B12x45	40	B12	24	45	18.0	M16
DC B12x90	40	B12	24	90	63.0	M16
DC B16x45	40	B16	30	45	18.0	M16
DC B16x90	40	B16	30	90	63.0	M16
DC B18x45	40	B18	30	45	18.0	M16
DC B18x90	40	B18	30	90	63.0	M16
BT50 DC B12x45	50	B12	-	45	6.7	M24
DC B12x105	50	B12	24	105	67.0	M24
DC B16x45	50	B16	-	45	7.0	M24
DC B16x105	50	B16	50	105	67.0	M24
DC B18x45	50	B18	-	45	7.0	M24
DC B18x105	50	B18	30	105	67.0	M24



G164-G166

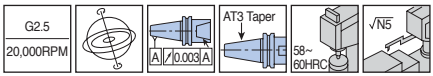
• Without drill chuck

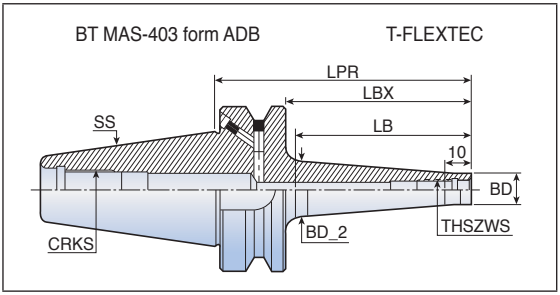
ADVANCE MACHINING
TaeguTec Industry 4.0

BT-ODP

T-FLEXTEC holders







Designation		Dimension (mm)							
		SS	THSZWS	BD	BD_2	LPR	LBX	LB	CRKS
BT40	**ODP 6x66**	40	M06	9.8	13.0	66	39	30	M16
	ODP 6x106	40	M06	9.8	23.0	106	79	70	M16
	ODP 8x66	40	M08	13.0	15.0	66	39	30	M16
	ODP 8x106	40	M08	13.0	23.0	106	79	70	M16
	ODP 10x66	40	M10	18.0	20.0	66	39	30	M16
	ODP 10x106	40	M10	18.0	28.0	106	79	70	M16
	ODP 12x66	40	M12	21.0	24.0	66	39	30	M16
	ODP 12x106	40	M12	21.0	31.0	106	79	70	M16
	ODP 16x66	40	M16	29.0	28.6	66	39	35	M16
	ODP 16x106	40	M16	29.0	34.0	106	79	70	M16
BT50	**ODP 12x94**(1)	50	M12	23.0	30.0	94	56	50	M24
	ODP 12x144(1)	50	M12	23.0	40.0	144	106	100	M24
	ODP 12x194(1)	50	M12	23.0	40.0	194	156	150	M24
	ODP 12x244(1)	50	M12	23.0	46.0	244	206	200	M24
	ODP 16x94(1)	50	M16	29.0	34.0	94	56	50	M24
	ODP 16x144(1)	50	M16	29.0	40.0	144	106	100	M24
	ODP 16x194(1)	50	M16	29.0	55.0	194	156	150	M24
	ODP 16x244(1)	50	M16	29.0	55.0	244	206	200	M24



G164-G166

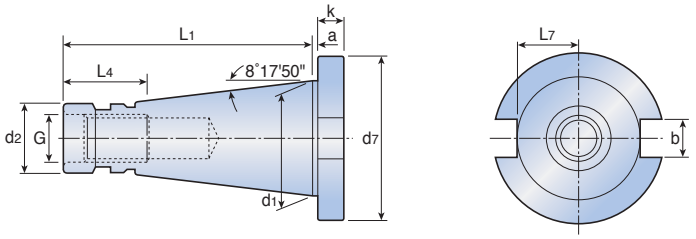
- If the “B type” option is required, the plug screw must be removed from the flange cooling hole (Use a 2mm hex key)
- (1) Balance to G6.3 at 12,000RPM

DIN2080



DIN2080

Standard toolholder



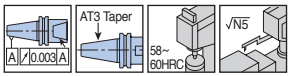
Shank	a ±0.2	b (H12)	d1	d2	G	d7	K ±0.15	L1	L4	L7max	Taper AT3
30	1.6	16.1	31.75	17.4	M12	50.0	8	68.4	24	16.2	0.002
40	1.6	16.1	44.45	25.3	M16	63.0	10	93.4	32	22.5	0.003
50	3.2	25.7	69.85	39.6	M24	97.5	12	126.8	47	35.3	0.004

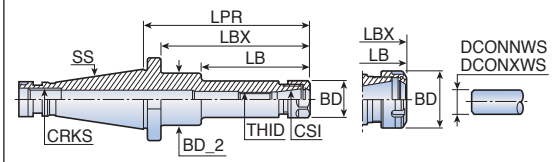
* For non-stock items: Supply condition is subject to availability.
If not available in stock then MOQ (Minimum order qty) will be applicable.

DIN2080-ER

ER collet chucks







ER 16, 20 **ER 32, 40, 50**

Designation		Dimension (mm)										
		SS	CSI	DCONNWS	DCONXWS	BD	BD_2	LPR	LBX	LB	CRKS	THID
DIN2080 30	**ER 16x75**	30	ER16	0.5	10.0	28	-	75	65.4	-	M12	M10
	ER 32x55	30	ER32	2.0	20.0	50	-	55	45.4	-	M12	M18x1.5
	ER 40x83	30	ER40	3.0	26.0	63	-	83	69.4	-	M12	M22x1.5
DIN2080 40	**ER 16x63**	40	ER16	0.5	10.0	28	-	63	51.4	-	M16	M12
	ER 16x100	40	ER16	0.5	10.0	28	-	100	88.4	-	M16	M12
	ER 20x63	40	ER20	1.0	13.0	34	-	63	51.4	-	M16	M12
	ER 20x100	40	ER20	1.0	13.0	34	-	100	88.4	-	M16	M12
	ER 25x50	40	ER25	1.0	16.0	42	-	50	38.4	-	M16	M16x1.5
	ER 32x50	40	ER32	2.0	20.0	50	-	50	38.4	-	M16	M22x1.5
	ER 40x55	40	ER40	3.0	26.0	63	-	55	43.4	-	M16	M22x1.5
	ER 50x80	40	ER50	10.0	34.0	78	-	80	68.4	-	M24	M22x1.5
DIN2080 50	**ER 16x100**	50	ER16	0.5	10.0	28	-	100	84.8	-	M24	M12
	ER 16x160	50	ER16	0.5	10.0	28	40	160	144.8	95	M24	M12
	ER 20x100	50	ER20	1.0	13.0	34	-	100	84.8	-	M24	M16
	ER 20x160	50	ER20	1.0	13.0	34	-	160	144.8	-	M24	M12
	ER 40x58	50	ER40	3.0	26.0	63	-	58	42.8	-	M24	M28x1.5
	ER 50x63	50	ER50	10.0	34.0	78	-	63	47.8	-	M24	M36x1.5


G137-G145


G163-G164


G167

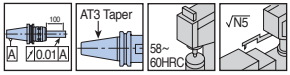

G170

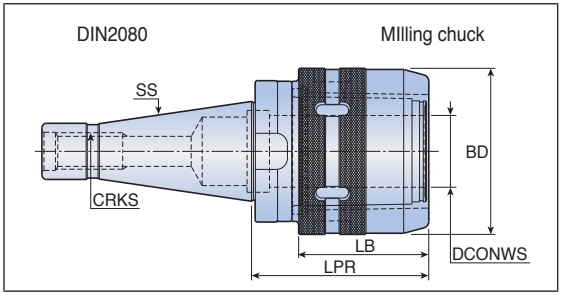
ADVANCE MACHINING
TaeguTec Industry 4.0

DIN2080-NTMC

Milling chucks







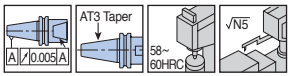
Designation		Dimension (mm)					
		SS	DCONWS	BD	LPR	LB	CRKS
DIN2080 40	**NTMC 25-70**	40	25	62	70	52.5	M16
	NTMC 32-75	40	32	72	75	57.5	M16
DIN2080 50	**NTMC 32-90**	50	32	74	90	71.8	M24
	NTMC 42-90	50	42	94	90	67	M24

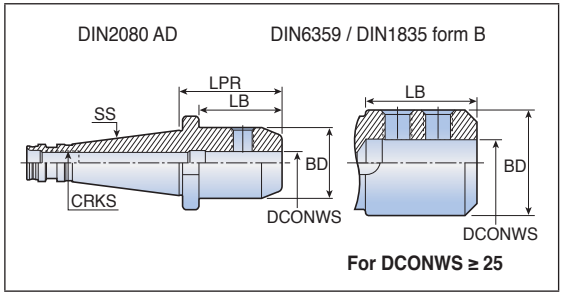
G151-G153 G170 G180

DIN2080-EM

End mill holders







Designation		Dimension (mm)					
		SS	DCONWS	BD	LPR	LB	CRKS
DIN2080 30	**EM 6x40**	30	6	25	40	30.4	M12
	EM 8x40	30	8	28	40	30.4	M12
	EM 10x40	30	10	35	40	30.4	M12
	EM 16x50	30	16	48	50	40.4	M12
	EM 20x63	30	20	52	63	53.4	M12
DIN2080 40	**EM 6x50**	40	6	25	50	38.4	M16
	EM 8x50	40	8	28	50	38.4	M16
	EM 10x50	40	10	35	50	38.4	M16
	EM 12x50	40	12	42	50	38.4	M16
	EM 16x63	40	16	48	63	51.4	M16
	EM 20x63	40	20	52	63	51.4	M16
	EM 25x80	40	25	65	80	68.4	M16
	EM 32x80	40	32	72	80	68.4	M16
DIN2080 50	**EM 6x63**	50	6	25	63	47.8	M24
	EM 8x63	50	8	28	63	47.8	M24
	EM 10x63	50	10	35	63	47.8	M24
	EM 12x63	50	12	42	63	47.8	M24
	EM 16x63	50	16	48	63	47.8	M24
	EM 20x63	50	20	52	63	47.8	M24
	EM 25x80	50	25	65	80	64.8	M24
	EM 32x80	50	32	72	80	64.8	M24
	EM 40x90	50	40	90	90	74.8	M24
	EM 50x100	50	50	100	100	84.8	M24

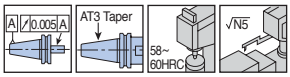


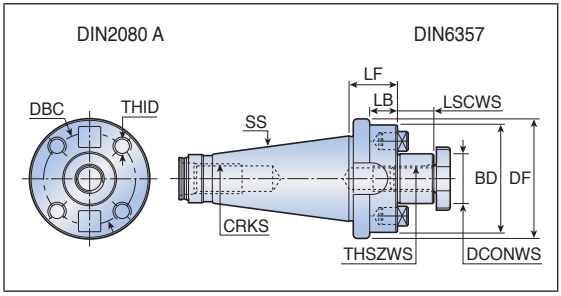
ADVANCE MACHINING
TaeguTec Industry 4.0

DIN2080-FM

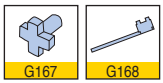
Face mill arbors







Designation	Dimension (mm)										
	SS	DCONWS	DF	BD	DBC	LF	LB	LSCWS	CRKS	THSZWS	THID
DIN2080 40 FM40	40	40	88.0	-	66.7	20.0	-	27	M16	M20	M12
DIN2080 50 FM40	50	40	97.3	88	66.7	36.0	20.8	27	M24	M20	M12
FM60	50	60	128.0	-	101.6	35.8	-	40	M24	-	M16

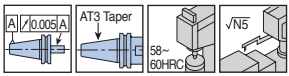


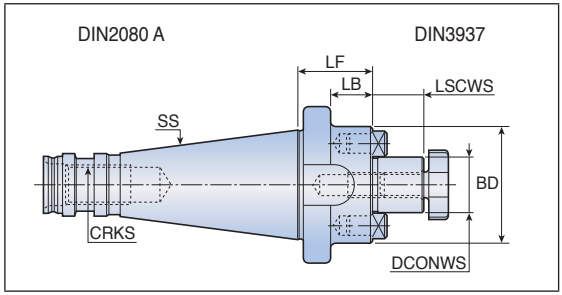
• Wrench not included

DIN2080-SEM

Shell end mill arbors







Designation	Dimension (mm)						
	SS	DCONWS	BD	LF	LB	LSCWS	CRKS
DIN2080 30 SEM 16x28	30	16	38	28	18.4	17	M12
SEM 22x28	30	22	47	28	18.4	19	M12
SEM 27x32	30	27	58	32	22.4	21	M12
SEM 32x32	30	32	66	32	22.4	24	M12
DIN2080 40 SEM 16x28	40	16	38	28	16.4	17	M16
SEM 22x27	40	22	47	27	15.4	19	M16
SEM 27x26	40	27	58	26	14.4	21	M16
SEM 32x23	40	32	66	23	11.4	24	M16
SEM 40x34	40	40	82	34	22.4	27	M16
DIN2080 50 SEM 16x38	50	16	38	38	22.8	17	M24
SEM 22x38	50	22	47	38	22.8	19	M24
SEM 27x38	50	27	58	38	22.8	21	M24
SEM 32x36	50	32	66	36	20.8	24	M24
SEM 40x40	50	40	82	40	24.8	27	M24





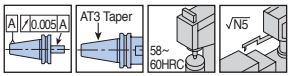
• Wrench not included

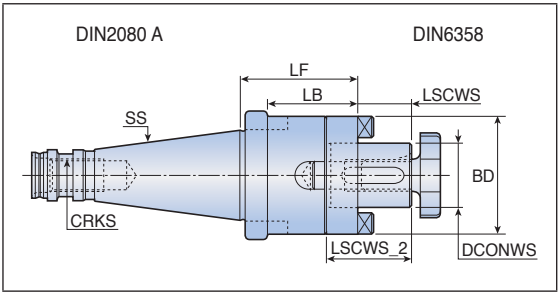
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DIN2080-SEMC

Combi shell end mill arbors







Designation		Dimension (mm)							
		SS	DCONWS	BD	LF	LB	LSCWS	LSCWS_2	CRKS
DIN2080 30	**SEMC 16x35**	30	16	32	35	25.4	17	27	M12
	SEMC 22x35	30	22	40	35	25.4	19	31	M12
	SEMC 27x35	30	27	48	35	25.4	21	33	M12
	SEMC 32x50	30	32	58	50	40.4	24	38	M12
DIN2080 40	**SEMC 22x52**	40	22	40	52	40.4	19	31	M16
	SEMC 27x52	40	27	48	52	40.4	21	33	M16
	SEMC 32x52	40	32	58	52	40.4	24	38	M16
	SEMC 40x52	40	40	70	52	40.4	27	41	M16
DIN2080 50	**SEMC 16x55**	50	16	32	55	39.8	17	27	M24
	SEMC 22x55	50	22	40	55	39.8	19	31	M24
	SEMC 27x55	50	27	48	55	39.8	21	33	M24
	SEMC 32x55	50	32	58	55	39.8	24	38	M24
	SEMC 40x55	50	40	70	55	39.8	27	41	M24
	SEMC 50x55	50	50	90	55	39.8	30	46	M24

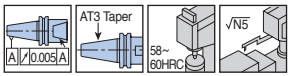


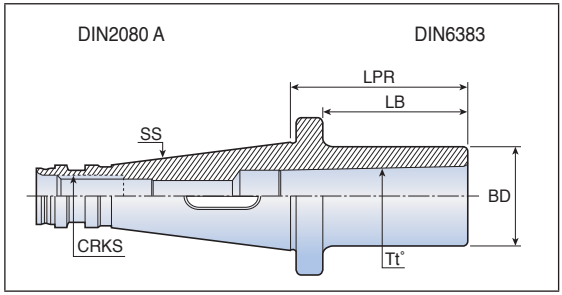
• Wrench not included

DIN2080-MT

Morse taper adapters







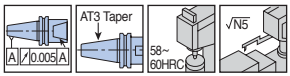
Designation		Dimension (mm)					
		SS	Tt°	BD	LPR	LB	CRKS
DIN2080 30	**MT 1x50**	30	MT1	25	50	40.4	M12
	MT 2x50	30	MT2	32	50	40.4	M12
	MT 3x70	30	MT3	40	50	60.4	M12
DIN2080 40	**MT 1x50**	40	MT1	25	50	38.4	M16
	MT 2x50	40	MT2	32	50	38.4	M16
	MT 3x65	40	MT3	40	65	53.4	M16
	MT 4x95	40	MT4	48	95	83.4	M16
DIN2080 50	**MT 1x45**	50	MT1	25	45	29.8	M24
	MT 2x60	50	MT2	32	60	44.8	M24
	MT 3x65	50	MT3	40	65	49.8	M24
	MT 4x70	50	MT4	48	70	54.8	M24
	MT 5x105	50	MT5	63	105	89.2	M24

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DIN2080-MT-DRW

Morse taper draw bar adapters





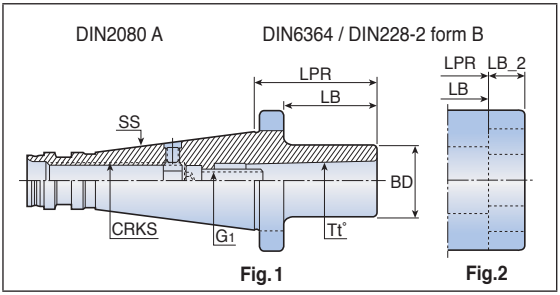


Fig.1 **Fig.2**

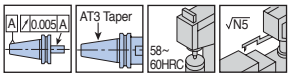
Designation	Dimension (mm)								Fig.
	SS	Tt°	BD	LPR	LB	LB_2	G1	CRKS	
DIN2080 40 MT1 DRW	40	MT1	25	50	38.4	-	M6	M16	1
MT2 DRW	40	MT2	32	50	38.4	-	M10	M16	1
MT3 DRW	40	MT3	40	65	53.4	-	M12	M16	1
MT4 DRW	40	MT4	63	110	-	15	M16	M16	2
DIN2080 50 MT1 DRW	50	MT1	25	60	44.8	-	M6	M24	1
MT2 DRW	50	MT2	32	60	44.8	-	M10	M24	1
MT3 DRW	50	MT3	40	65	49.8	-	M12	M24	1
MT4 DRW	50	MT4	63	80	49.8	15	M16	M24	2
MT5 DRW	50	MT5	78	100	84.4	18	M20	M24	2

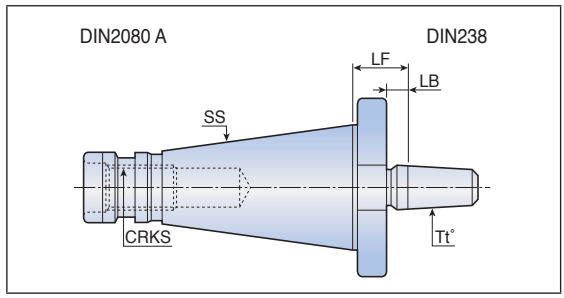
• MT4 & MT5: DIN2201

DIN2080-DC

Drill chuck arbors





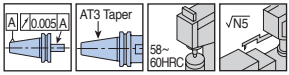


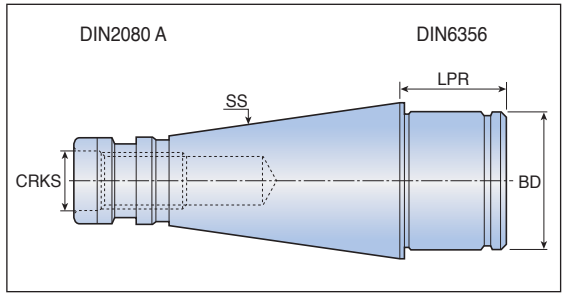
Designation	Dimension (mm)				
	SS	Tt°	LF	LB	CRKS
DIN2080 30 DC B16x20	30	B16	20	5.4	M12
DIN2080 40 DC B16x22	40	B16	22	10.4	M16
DC B18x25	40	B18	25	13.4	M16
DIN2080 50 DC B16x25	50	B16	25	9.8	M24
DC B18x25	50	B18	25	9.8	M24

DIN2080-CP

Centering plug







Designation	Dimension (mm)			
	SS	BD	LPR	CRKS
DIN2080 40 CP 40	40	40	29	M16
DIN2080 50 CP 60	50	60	39	M24

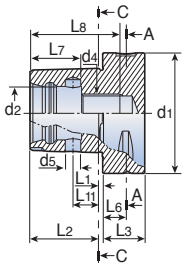
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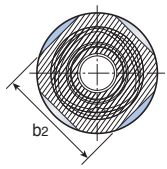
cADAPTER



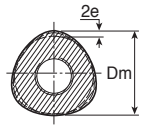
C-ADAPTER ISO 26623-1

Standard toolholder





A-A



C-C

C-ADAPTER	b2	d1 ±0.1	d2	d4	d5 ±0.1	Dm	e
C3	28.3	32	15	M12x1.5	3.6	22	0.70
C4	35.3	40	18	M14x1.5	4.6	28	0.90
C5	44.4	50	21	M16x1.5	6.1	35	1.12
C6	55.8	63	28	M20x2	8.1	44	1.40
C8	71.1	80	32	M20x2	9.1	55	2.00

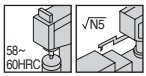
C-ADAPTER	L1	L2 ±0.1	L3min	L6 ±0.15	L7 ±0.15	L8min	L11 ±0.1
C3	2.5	19	15	6	13	25	8.0
C4	2.5	24	20	8	15	30	11.5
C5	3.0	30	20	10	20	37	14.0
C6	3.0	38	22	12	27	47	15.5
C8	3.0	48	30	12	28	48	25.0

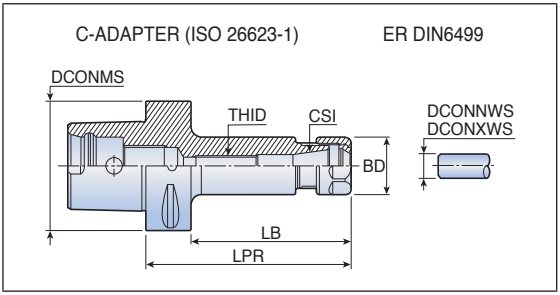
* For non-stock items: Supply condition is subject to availability.
If not available in stock then MOQ (Minimum order qty) will be applicable.

C-ER

ER collet chucks







	Designation	Dimension (mm)							
		DCONMS	CSI	DCONNWS	DCONXWS	BD	LPR	LB	THID
C4	ER 16x70	40	ER16	1.0	10.0	28	70	50	M10
	ER 20x35[(1)]	40	ER20	1.0	13.0	34	35	27	-
	ER 20x52	40	ER20	1.0	13.0	34	52	32	-
	ER 25x38[(1)]	40	ER25	1.0	16.0	42	38	30	-
	ER 25x52	40	ER25	1.0	16.0	42	52	32	-
	ER 32x54	40	ER32	2.0	20.0	50	54	34	-
C5	ER 16x100	50	ER16	1.0	10.0	28	100	80	M10
	ER 16x130	50	ER16	1.0	10.0	28	130	110	M10
	ER 20x055	50	ER20	1.0	13.0	34	55	35	-
	ER 20x100	50	ER20	1.0	13.0	34	100	80	M12
	ER 20x130	50	ER20	1.0	13.0	34	130	110	M12
	ER 25x055	50	ER25	1.0	16.0	42	55	35	-
	ER 25x100	50	ER25	1.0	16.0	42	100	80	M16
	ER 32x057	50	ER32	2.0	20.0	50	57	36	-
	ER 32x100	50	ER32	2.0	20.0	50	100	80	M22x1.5
C6	ER 16x100	63	ER16	1.0	10.0	28	100	78	M10
	ER 16x130	63	ER16	1.0	10.0	28	130	108	M10
	ER 16x160	63	ER16	1.0	10.0	28	160	138	M10
	ER 20x060	63	ER20	1.0	13.0	34	60	38	-
	ER 20x100	63	ER20	1.0	13.0	34	100	78	M12
	ER 20x130	63	ER20	1.0	13.0	34	130	108	M12
	ER 20x160	63	ER20	1.0	13.0	34	160	138	M12
	ER 25x060	63	ER25	1.0	16.0	42	60	38	-
	ER 25x100	63	ER25	1.0	16.0	42	100	78	M16
	ER 25x130	63	ER25	1.0	16.0	42	130	108	M16
	ER 25x160	63	ER25	1.0	16.0	42	160	138	M16
	ER 32x060	63	ER32	2.0	20.0	50	60	36	-
	ER 32x100	63	ER32	2.0	20.0	50	100	78	M22x1.5
	ER 32x130	63	ER32	2.0	20.0	50	130	108	M22x1.5
	ER 32x160	63	ER32	2.0	20.0	50	160	138	M22x1.5
	ER 40x065	63	ER40	3.0	26.0	63	65	37	-
	ER 40x100	63	ER40	3.0	26.0	63	100	78	M28x1.5
	ER 40x130	63	ER40	3.0	26.0	63	130	108	M28x1.5

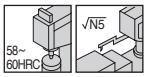
G137-G145 G163-G164 G167 G170

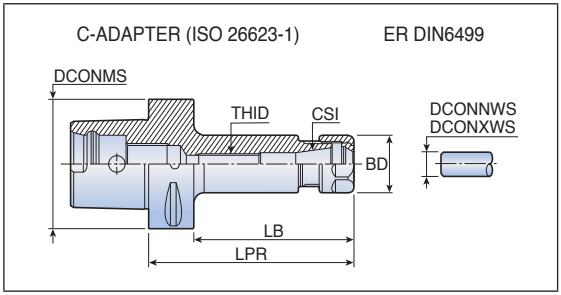
• [(1)] Without V grooves, for manual use only

C-ER

ER collet chucks





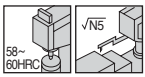


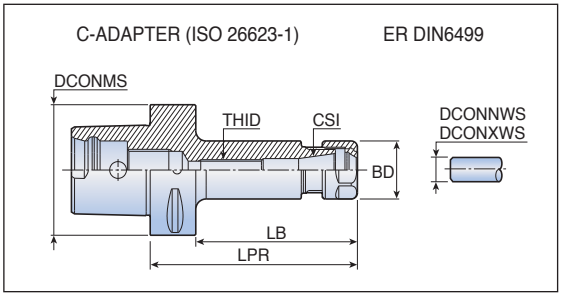
Designation		Dimension (mm)							
		DCONMS	CSI	DCONNWS	DCONXWS	BD	LPR	LB	THID
C8	**ER 32x70**	80	ER32	2.0	20.0	50	70	40	-
	ER 32x100	80	ER32	2.0	20.0	50	100	70	M22x1.5
	ER 32x160	80	ER32	2.0	20.0	50	160	130	M22x1.5
	ER 40x70	80	ER40	3.0	26.0	63	70	40	-
	ER 40x100	80	ER40	3.0	26.0	63	100	70	M28x1.5
	ER 40x160	80	ER40	3.0	26.0	63	160	130	M28x1.5

C-ER-M

ER mini collet chucks







Designation		Dimension (mm)							
		DCONMS	CSI	DCONNWS	DCONXWS	BD	LPR	LB	THID
C4	**ER 16x70 M**	40	ER16	0.5	10.0	22	70	50	M10
C5	**ER 16x100 M**	50	ER16	0.5	10.0	22	100	80	M10
	ER 16x130 M	50	ER16	0.5	10.0	22	130	120	M10
C6	**ER 16x100 M**	63	ER16	0.5	10.0	22	100	78	M10
	ER 16x130 M	63	ER16	0.5	10.0	22	130	108	M10
	ER 16x160 M	63	ER16	0.5	10.0	22	160	138	M10


G137-G145


G163-G164


G167

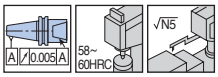

G170

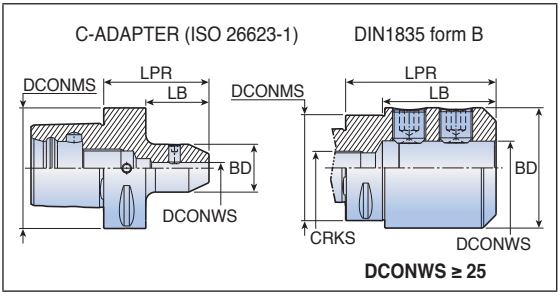
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C-EM

End mill holders







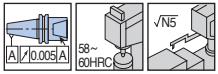
Designation	Dimension (mm)					
	DCONMS	DCONWS	BD	LPR	LB	CRKS
C4 EM 6x50	40	6	25	50	30	M14
EM 8x50	40	8	28	50	30	M14
EM 10x50	40	10	35	50	30	M14
EM 12x55	40	12	42	55	35	M14
EM 14x55	40	14	44	55	35	M14
EM 16x60	40	16	48	60	40	M14
C5 EM 6x50	50	6	25	50	30	M16
EM 8x50	50	8	28	50	30	M16
EM 10x55	50	10	35	55	35	M16
EM 12x60	50	12	42	60	40	M16
EM 14x60	50	14	44	60	40	M16
EM 16x60	50	16	48	60	40	M16
EM 18x60	50	18	50	60	40	M16
EM 20x60	50	20	52	60	40	M16
EM 25x85	50	25	65	85	65	M16
C6 EM 6x55	63	6	25	55	33	M20
EM 8x55	63	8	28	55	33	M20
EM 10x60	63	10	35	60	38	M20
EM 12x60	63	12	42	60	38	M20
EM 14x60	63	14	44	60	38	M20
EM 16x65	63	16	48	65	43	M20
EM 18x65	63	18	50	65	43	M20
EM 20x65	63	20	52	65	43	M20
EM 25x80	63	25	65	80	58	M20
EM 32x90	63	32	72	90	68	M20
EM 40x100	63	40	90	100	78	M20

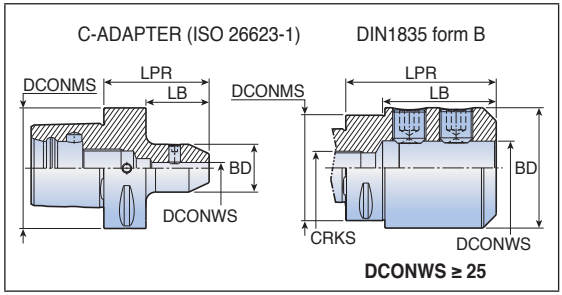
G167

C-EM

End mill holders







Designation	Dimension (mm)					
	DCONMS	DCONWS	BD	LPR	LB	CRKS
C8 EM 6x70	80	6	25	70	40	M20
EM 8x70	80	8	28	70	40	M20
EM 10x70	80	10	35	70	40	M20
EM 12x70	80	12	42	70	40	M20
EM 14x70	80	14	44	70	40	M20
EM 16x70	80	16	48	70	40	M20
EM 18x70	80	18	50	70	40	M20
EM 20x70	80	20	52	70	40	M20
EM 25x90	80	25	65	90	60	M20
EM 32x95	80	32	72	95	65	M20
EM 40x110	80	40	90	110	80	M20
EM 50x120	80	50	98	120	90	M20

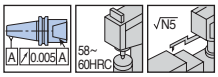


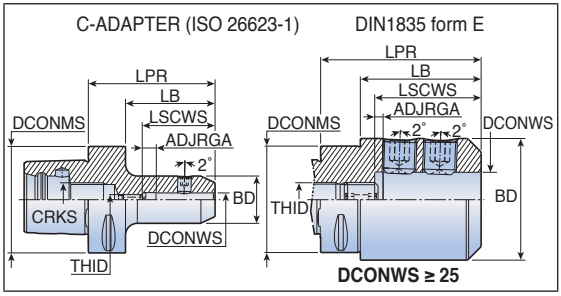
ADVANCE MACHINING
TaeguTec Industry 4.0

C-EM-E

End mill holders - Whistle notch type







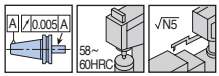
Designation	Dimension (mm)								
	DCONMS	DCONWS	BD	LPR	LB	ADJRGA	LSCWS	CRKS	THID
C4 EM 6x70 E	40	6	25	70	50	5	35	M14	M5
EM 8x70 E	40	8	28	70	50	8	43	M14	M6
EM 10x70 E	40	10	35	70	50	6	45	M14	M8
EM 12x75 E	40	12	42	75	55	5	49	M14	M10
EM 14x75 E	40	14	44	75	55	5	49	M14	M10
C5 EM 6x70 E	50	6	25	70	50	5	35	M16	M5
EM 8x70 E	50	8	28	70	50	8	43	M16	M6
EM 10x70 E	50	10	35	70	50	6	45	M16	M8
EM 12x75 E	50	12	42	75	55	5	49	M16	M10
EM 14x75 E	50	14	44	75	55	5	49	M16	M10
EM 16x80 E	50	16	48	80	60	5	52	M16	M12
EM 18x80 E	50	18	50	80	60	5	52	M16	M12
EM 20x85 E	50	20	52	85	65	6	55	M16	M16
C6 EM 6x75 E	63	6	25	75	53	6	36	M20	M5
EM 8x75 E	63	8	28	75	53	8	43	M20	M6
EM 10x75 E	63	10	35	75	53	7	46	M20	M8
EM 12x80 E	63	12	42	80	58	5	49	M20	M10
EM 14x80 E	63	14	44	80	58	5	49	M20	M10
EM 16x85 E	63	16	48	85	63	5	52	M20	M12
EM 18x85 E	63	18	50	85	63	5	52	M20	M12
EM 20x85 E	63	20	52	85	63	6	55	M20	M16
EM 25x90 E	63	25	65	90	68	6	60	M20	M20
EM 32x95 E	63	32	72	95	73	5	63	M20	M20
C8 EM 6x65 E	80	6	25	65	35	6	36	M20	M5
EM 8x65 E	80	8	28	65	35	8	43	M20	M6
EM 10x65 E	80	10	35	65	35	7	46	M20	M8
EM 12x70 E	80	12	42	70	40	5	49	M20	M10
EM 14x70 E	80	14	44	70	40	5	49	M20	M10
EM 16x75 E	80	16	48	75	45	5	52	M20	M12
EM 18x75 E	80	18	50	75	45	5	52	M20	M12
EM 20x80 E	80	20	52	80	50	8	57	M20	M16
EM 25x90 E	80	25	65	90	60	6	60	M20	M20
EM 32x95 E	80	32	72	95	65	6	64	M20	M20

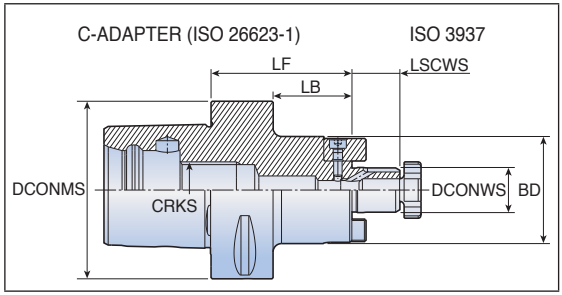
G167

C-SEM-C

Face mill arbors







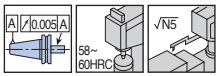
	Designation	Dimension (mm)						
		DCONMS	DCONWS	BD	LF	LB	LSCWS	CRKS
C4	SEM 16x32 C	40	16	38	32	12	17	M14
	SEM 16x55 C	40	16	38	55	35	17	M14
	SEM 22x40 C	40	22	47	40	20	19	M14
	SEM 22x55 C	40	22	47	55	35	19	M14
C5	SEM 16x35 C	50	16	38	35	15	17	M16
	SEM 16x70 C	50	16	38	70	50	17	M16
	SEM 22x35 C	50	22	47	35	15	19	M16
	SEM 22x70 C	50	22	47	70	50	19	M16
	SEM 27x40 C	50	27	58	40	20	21	M16
	SEM 32x40 C	50	32	63	40	20	24	M16
C6	SEM 16x50 C	63	16	38	50	28	17	M20
	SEM 16x100 C	63	16	38	100	78	17	M20
	SEM 22x50 C	63	22	47	50	28	19	M20
	SEM 22x100 C	63	22	47	100	78	19	M20
	SEM 27x60 C	63	27	58	60	38	21	M20
	SEM 27x100 C	63	27	58	100	78	21	M20
	SEM 32x60 C	63	32	66	60	38	24	M20
	SEM 40x60 C	63	40	82	60	38	27	M20
C8	SEM 16x50 C	80	16	38	50	20	17	M20
	SEM 16x100 C	80	16	38	100	70	17	M20
	SEM 22x50 C	80	22	47	50	20	19	M20
	SEM 22x100 C	80	22	47	100	70	19	M20
	SEM 27x50 C	80	27	58	50	20	21	M20
	SEM 27x100 C	80	27	58	100	70	21	M20
	SEM 32x50 C	80	32	66	50	20	24	M20
	SEM 32x100 C	80	32	66	100	70	24	M20
	SEM 40x60 C	80	40	82	60	30	27	M20

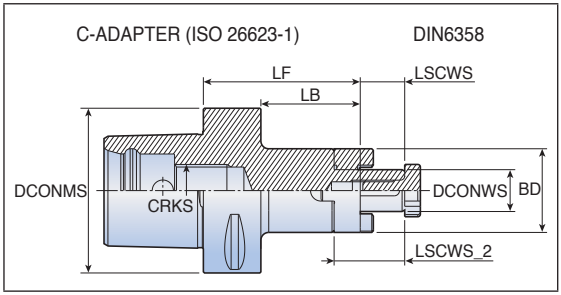
G167 G168

C-SEMC

Combi shell mill arbors







Designation	Dimension (mm)							
	DCONMS	DCONWS	BD	LF	LB	LSCWS	LSCWS_2	CRKS
C4 SEMC 16x45	40	16	32	45	25	17	27	M14
SEMC 22x45	40	22	40	45	25	19	31	M14
SEMC 27x50	40	27	48	50	30	21	33	M14
C5 SEMC 16x55	50	16	32	55	35	17	27	M16
SEMC 16x85	50	16	32	85	65	17	27	M16
SEMC 22x65	50	22	40	65	45	19	31	M16
SEMC 27x85	50	27	48	85	65	21	33	M16
C6 SEMC 16x60	63	16	32	60	38	17	27	M20
SEMC 16x100	63	16	32	100	78	17	27	M20
SEMC 22x60	63	22	40	60	38	19	31	M20
SEMC 22x100	63	22	40	100	78	19	31	M20
SEMC 27x60	63	27	48	60	38	21	33	M20
SEMC 27x100	63	27	48	100	78	21	33	M20
SEMC 32x60	63	32	58	60	38	24	38	M20
SEMC 40x70	63	40	70	70	48	27	41	M20


G167

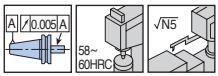
G168

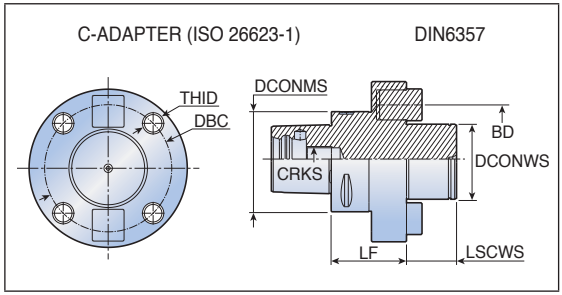
G169

C-FM

Face mill arbors







Designation	Dimension (mm)							
	DCONMS	DCONWS	BD	DBC	LF	LSCWS	CRKS	THID
C8 FM 60x60	80	60	128	101.6	20	40	M20	M16

G167

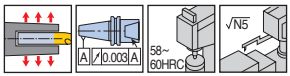
ADVANCE MACHINING
TaeguTec Industry 4.0

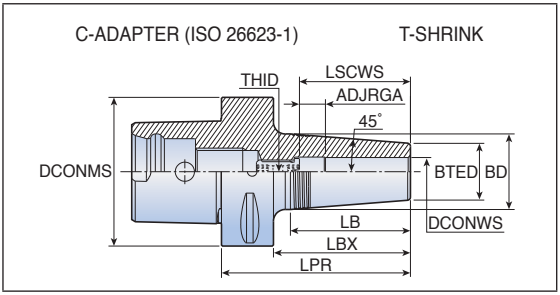
C-SRKIN

T-SHRINK

Thermal shrinking chucks





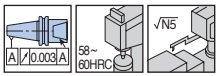


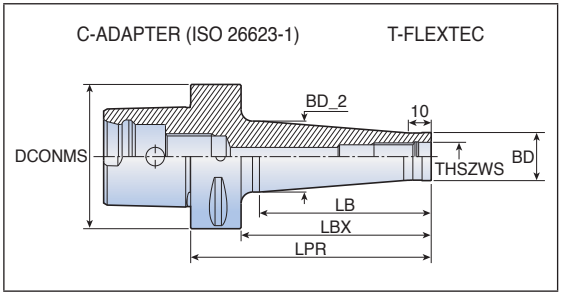
Designation	Dimension (mm)										
	DCONMS	DCONWS	BTED	BD	LPR	LBX	LB	ADJRGA	LSCWS	THID	Hex key
C4 SRKIN 6x75	40	6	21	27	75	55	38.1	11	36	M5	2.5
SRKIN 8x75	40	8	21	27	75	55	38.1	11	36	M6	3.0
SRKIN 10x75	40	10	24	32	75	55	50.8	11	42	M8	4.0
SRKIN 12x75	40	12	24	32	75	55	50.8	11	47	M10	5.0
SRKIN 14x80	40	14	27	34	80	60	44.5	11	47	M10	5.0
SRKIN 16x80	40	16	27	34	80	60	44.5	11	50	M12	6.0
SRKIN 18x80	40	18	33	42	80	60	57.2	11	50	M12	6.0
SRKIN 20x85	40	20	33	42	85	65	57.2	11	52	M16	8.0
C5 SRKIN 6x75	50	6	21	27	75	55	38.1	11	36	M5	2.5
SRKIN 8x75	50	8	21	27	75	55	38.1	11	36	M6	3.0
SRKIN 10x75	50	10	24	32	75	55	50.8	11	42	M8	4.0
SRKIN 12x75	50	12	24	32	75	55	50.8	11	47	M10	5.0
SRKIN 14x80	50	14	27	34	80	60	44.5	11	47	M10	5.0
SRKIN 16x80	50	16	27	34	80	60	44.5	11	50	M12	6.0
SRKIN 18x80	50	18	33	42	80	60	57.2	11	50	M12	6.0
SRKIN 20x85	50	20	33	42	85	65	57.2	11	52	M16	8.0
SRKIN 25x90	50	25	44	53	90	70	57.2	11	58	M16	8.0
C6 SRKIN 6x80	63	6	21	27	80	58	38.1	11	36	M5	2.5
SRKIN 8x80	63	8	21	27	80	58	38.1	11	36	M6	3.0
SRKIN 10x80	63	10	24	32	80	58	50.8	11	42	M8	4.0
SRKIN 12x80	63	12	24	32	80	58	50.8	11	47	M10	5.0
SRKIN 14x85	63	14	27	34	85	63	44.5	11	47	M10	5.0
SRKIN 16x85	63	16	27	34	85	63	44.5	11	50	M12	6.0
SRKIN 18x85	63	18	33	42	85	63	57.2	11	50	M12	6.0
SRKIN 20x85	63	20	33	42	85	63	57.2	11	52	M16	8.0
SRKIN 25x90	63	25	44	53	90	68	57.2	11	58	M16	8.0
SRKIN 32x95	63	32	44	53	95	73	57.2	11	58	M16	8.0

G174 G184

T-FLEXTEC holders





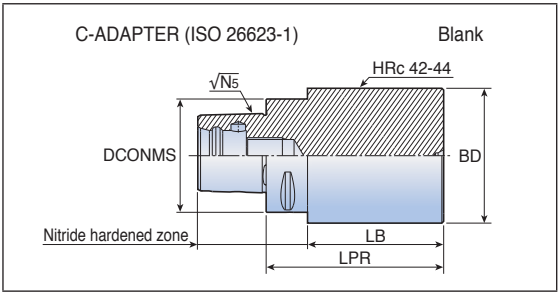


Designation	Dimension (mm)						
	DCONMS	THSZWS	BD	BD_2	LPR	LBX	LB
C4 ODP 10x53	40	M10	18	23.0	53	33	23
ODP 12x53	40	M12	21	26.0	53	33	23
ODP 16x53	40	M16	29	34.0	53	33	23
C5 ODP 10x53	50	M10	18	19.5	53	33	25
ODP 10x103	50	M10	18	28.0	103	83	75
ODP 12x53	50	M12	21	23.5	53	33	25
ODP 12x103	50	M12	21	31.0	103	83	75
ODP 16x53	50	M16	29	29.5	53	33	25
ODP 16x103	50	M16	29	36.0	103	83	75
C6 ODP 10x55	63	M10	18	19.5	55	33	25
ODP 10x105	63	M10	18	28.0	105	83	75
ODP 10x130	63	M10	18	32.0	130	108	100
ODP 12x55	63	M12	21	23.5	55	33	25
ODP 12x105	63	M12	21	31.0	105	83	75
ODP 12x130	63	M12	21	36.0	130	108	100
ODP 16x55	63	M16	29	34.0	55	33	25
ODP 16x105	63	M16	29	34.0	105	83	75
ODP 16x130	63	M16	29	41.0	130	108	100

C-B4340

Blank





	Designation	Dimension (mm)			
		DCONWS	BD	LPR	LB
C4	**B4340 040095**	40	40	95	75
	B4340 060165	40	60	165	144
	B4340 080075	40	80	75	54
	B4340 100085	40	100	85	64
C5	**B4340 050125**	50	50	125	105
	B4340 075175	50	75	175	154
	B4340 090080	50	90	80	59
	B4340 110090	50	110	90	69
C6	**B4340 075195**	63	75	195	172
	B4340 110085	63	110	85	62
	B4340 130095	63	130	95	72
	B4340 120180	63	120	180	157
C8	**B4340 080200**	80	80	200	170
	B4340 120160	80	120	160	129
	B4340 130090	80	130	90	59
	B4340 145200	80	145	200	169

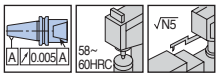
Straight &
Morse Taper Shank



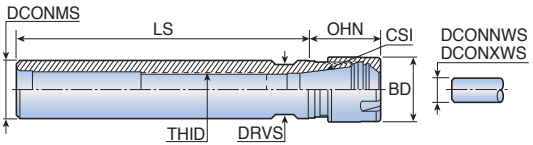
ST-ER-M

ER mini collet chucks





Straight shank DIN6499



Designation	Dimension (mm)								
	DCONMS	CSI	DCONNWS	DCONXWS	BD	OHN	LS	THID	DRVS
ST 12x80 ER11 M	12	ER11	0.5	7.0	16	26.5	80	-	11
16x100 ER11 M	16	ER11	0.5	7.0	16	18.5	100	M8	13
16x150 ER11 M	16	ER11	0.5	7.0	16	18.5	150	M8	13
12x80 ER16 M	12	ER16	0.5	10.0	22	36.5	80	-	17
20x100 ER16 M	20	ER16	0.5	10.0	22	25.0	100	M12	17
20x150 ER16 M	20	ER16	0.5	10.0	22	25.0	150	M12	17
20x100 ER20 M	20	ER20	1.0	13.0	28	40.0	100	M12	21
20x150 ER20 M	20	ER20	1.0	13.0	28	40.0	150	M12	21


G137-G145


G163-G164

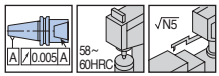

G167


G170

ST-ER-F

ER collet chucks





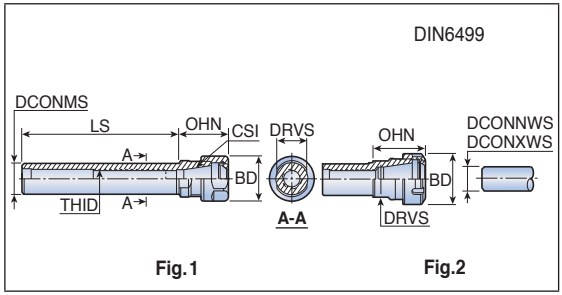


Fig.1 Fig.2

Designation	Dimension (mm)									Fig.
	DCONMS	CSI	DCONNWS	DCONXWS	BD	OHN	LS	THID	DRVS	
ST 16x50 ER11 F	16	ER11	0.5	7.0	19	18.5	50	M8	13	1
20x50 ER11 F	20	ER11	0.5	7.0	19	18.5	50	M10	17	1
20x100 ER11	20	ER11	0.5	7.0	19	18.5	100	M10	17	1
20x100 ER11 F	20	ER11	0.5	7.0	19	18.5	100	M10	17	1
20x150 ER11	20	ER11	0.5	7.0	19	18.5	150	M10	17	1
20x50 ER16 F	20	ER16	0.5	10.0	28	32.3	50	M12	19	1
20x100 ER16	20	ER16	0.5	10.0	28	30.0	100	M12	19	1
20x100 ER16 F	20	ER16	0.5	10.0	28	30.0	100	M12	19	1
20x150 ER16	20	ER16	0.5	10.0	28	30.0	150	M12	19	1
20x50 ER20 F	20	ER20	1.0	13.0	34	42.5	50	M12	22	1
25x100 ER20	25	ER20	1.0	13.0	34	36.0	100	M16	22	1
25x150 ER20	25	ER20	1.0	13.0	34	36.0	150	M16	22	1
20x50 ER25 F	20	ER25	1.0	16.0	42	46.0	50	M12	28	2
20x100 ER25	20	ER25	1.0	16.0	42	46.0	100	M12	28	2
20x100 ER25 F	20	ER25	1.0	16.0	42	46.0	100	M12	28	2
25x50 ER25 F	25	ER25	1.0	16.0	42	46.0	50	M16	28	2
25x100 ER25	25	ER25	1.0	16.0	42	46.0	100	M16	28	2
20x50 ER32 F	20	ER32	2.0	20.0	50	54.0	50	M12	36	2
20x100 ER32	20	ER32	2.0	20.0	50	54.0	100	M12	36	2
20x100 ER32 F	20	ER32	2.0	20.0	50	54.0	100	M12	36	2
25x50 ER32 F	25	ER32	2.0	20.0	50	52.0	50	M16x2	36	2
30x50 ER32 F	30	ER32	2.0	20.0	50	52.0	50	M18x1.5	36	2
32x50 ER32 F	32	ER32	2.0	20.0	50	52.0	50	M18x1.5	36	2
32x150 ER32	32	ER32	2.0	20.0	50	52.0	150	M18x1.5	36	2
40x75 ER32 F	40	ER32	2.0	20.0	50	46.0	75	M22x1.5	44	2
25x50 ER40 F	25	ER40	3.0	26.0	63	60.0	50	M16x2	45	2
30x50 ER40 F	32	ER40	3.0	26.0	63	60.0	50	M18x1.5	45	2
32x50 ER40 F	32	ER40	3.0	26.0	63	60.0	50	M18x1.5	45	2
40x75 ER40 F	40	ER40	3.0	26.0	63	55.0	75	M22x1.5	45	2
50x80 ER40 F	50	ER40	3.0	26.0	63	60.0	80	M28x1.5	54	2
50x80 ER50 F	50	ER50	10.0	34.0	78	77.0	80	M36x1.5	58	2

G137-G145 G163-G164 G167 G170

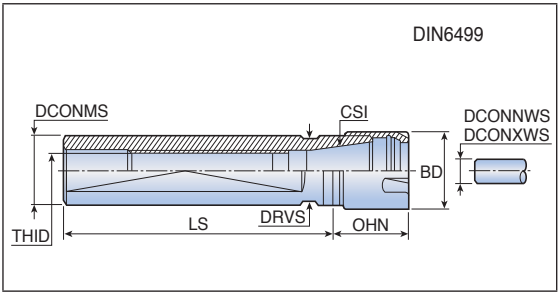
• F: Flat on the shank

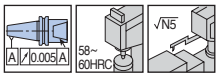
ADVANCE MACHINING
TaeguTec Industry 4.0

ST-ER-MF

Straight shanks - Mini collet







Designation	Dimension (mm)								
	DCONMS	CSI	DCONNWS	DCONXWS	BD	OHN	LS	THID	DRVS
ST 16x38 ER11 MF	16	ER11	0.5	7.0	16	18.5	38	M8x1	14
16x50 ER11 MF	16	ER11	0.5	7.0	16	18.5	50	M8x1	13
16x140 ER11 MF	16	ER11	0.5	7.0	16	18.5	140	M8x1	14
16x35 ER16 MF	16	ER16	0.5	10.0	22	36.0	35	M8x1	17
20x50 ER16 MF	20	ER16	0.5	10.0	22	26.0	50	M12x1	17
20x70 ER16 MF	20	ER16	0.5	10.0	22	26.0	70	M12x1	17
20x120 ER16 MF	20	ER16	0.5	10.0	22	26.0	120	M12x1	17
20x140 ER16 MF	20	ER16	0.5	10.0	22	26.0	140	M12x1	17
22x38 ER16 MF	22	ER16	0.5	10.0	22	26.0	38	M12x1	19
22x70 ER16 MF	22	ER16	0.5	10.0	22	26.0	70	M12x1	19
22x100 ER16 MF	22	ER16	0.5	10.0	22	28.0	100	M12x1	19
25x65 ER16 MF	25	ER16	0.5	10.0	22	28.0	65	M14x1	22
22x80 ER20 MF	22	ER20	1.0	13.0	28	39.0	80	M12x1	21
25x100 ER20 MF	25	ER20	1.0	13.0	28	28.0	100	M14x1	22
25x154 ER20 MF	25	ER20	1.0	13.0	28	28.0	154	M14x1	22
22x70 ER25 MF	22	ER25	1.0	16.0	35	47.0	70	M12x1	27
25x75 ER25 MF	25	ER25	1.0	16.0	35	48.0	75	M14x1	27
25x145 ER25 MF	25	ER25	1.0	16.0	35	36.0	145	M14x1	27
32x70 ER25 MF	32	ER25	1.0	16.0	35	30.0	70	M18x1	27

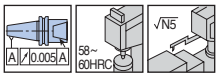

G137-G145 G163-G164 G167 G170

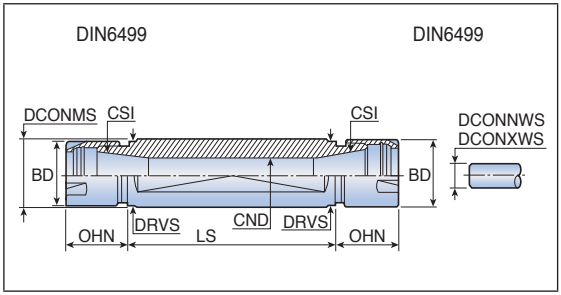
• MF: Mini flat shank

ST-ER-MF D

Straight shanks - Double mini collet







Designation	Dimension (mm)								
	DCONMS	CSI	DCONNWS	DCONXWS	CND	BD	OHN	LS	DRVS
ST 16x50 ER11 MF D	16	ER11	0.5	7.0	7.5	16	18.5	50	14
20x30 ER11 MF D	20	ER11	0.5	7.0	7.5	16	18.5	30	17
20x50 ER11 MF D	20	ER11	0.5	7.0	7.5	16	18.5	50	17
20x55 ER16 MF D	20	ER16	0.5	10.0	10.5	22	25.0	55	17
22x55 ER16 MF D	22	ER16	0.5	10.0	10.5	22	28.0	55	19
22x75 ER16 MF D	22	ER16	0.5	10.0	10.5	22	28.0	75	19
25x62 ER16 MF D	25	ER16	0.5	10.0	10.5	22	28.0	62	22
32x55 ER20 MF D	32	ER20	1.0	13.0	13.5	28	28.0	55	27
32x75 ER20 MF D	32	ER20	1.0	13.0	13.5	28	28.0	75	27

G137-G145 G163-G164 G167 G170

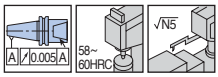
• MF D: Mini flat double

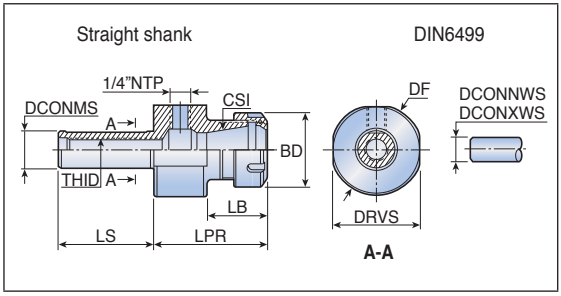
ADVANCE MACHINING
TaeguTec Industry 4.0

ST-ER-S

Straight shanks - Internal coolant







	Designation	Dimension (mm)										
		DCONMS	CSI	DCONNWS	DCONXWS	DF	BD	LPR	LB	LS	THID	DRVS
ST	**20x65 ER16 S**	20	ER16	0.5	10.0	40	28	54	29.6	65	M12	34
	20x65 ER20 S	20	ER20	1.0	13.0	40	34	63	31.0	65	M12	34
	20x65 ER25 S	20	ER25	1.0	16.0	54	42	72	32.0	65	M12	51
	20x65 ER32 S	20	ER32	2.0	20.0	63	50	77	41.0	65	M12	59
	25x65 ER25 S	25	ER25	1.0	16.0	54	42	72	32.0	65	M12	50
	25x65 ER32 S	25	ER32	2.0	20.0	63	50	77	41.0	65	M16	59
	32x65 ER32 S	32	ER32	2.0	20.0	63	50	77	41.0	65	M18x1.5	59
	40x75 ER32 S	40	ER32	2.0	20.0	63	50	77	41.0	75	M22x1.5	59


G137-G145

G163-G164

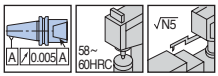
G167

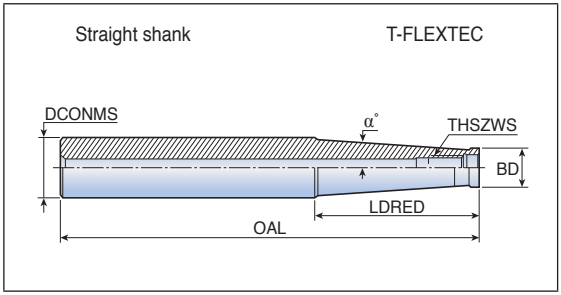
G170

S M-L-C

Straight shanks







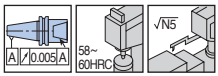
Designation	Dimension (mm)						Shank type
	THSZWS	DCONMS	BD	OAL	LDRED	α°	
S M06 - L60 C10	M06	10	9.7	60	20.0	-	C
L105-C12	M06	12	9.7	105	60.0	1.2	C
L125-C16	M06	16	9.7	125	60.0	3.3	C
S M08 - L73 C16	M08	16	13.0	73	25.0	-	C
L128-C 16	M08	16	13.0	128	80.0	0.9	C
L170-C20	M08	20	13.0	170	66.8	3.3	C
S M10 - L80 C20	M10	20	18.0	80	30.0	-	C
L130-C20	M10	20	18.0	130	80.0	0.6	C
L200-C25	M10	25	19.0	200	57.2	3.3	C
S M12 - L86-C25	M12	25	21.0	86	30.0	5.1	C
L200-C32	M12	32	21.0	200	78.0	4.4	C
S M16 - L95-C32	M16	32	29.0	95	35.0	1.7	C
L230-C32	M16	32	29.0	230	50.0	1.8	C

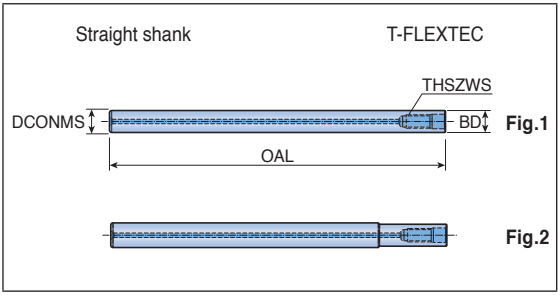
• All shanks have coolant holes

S M04/06-CT

Carbide T-FLEXTEC shanks





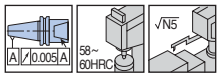


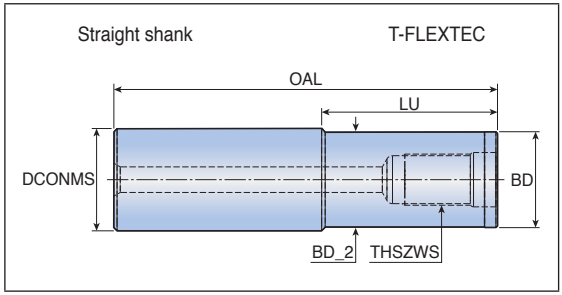
Designation	Dimension (mm)				Coolant hole	Fig.
	THSZWS	DCONMS	BD	OAL		
S M04 - CT08-20-L100	M04	8	7.8	100	●	2
CT08-40-L150-B	M04	8	7.8	150	x	2
S M06 - CT10-L100	M06	10	10	100	●	1
CT10-L150	M06	10	10	150	●	1
CT12-L100	M06	12	12	100	●	1
CT12-L150	M06	12	12	150	●	1

S M08/10-CT-L

Carbide T-FLEXTEC shanks with internal coolant hole







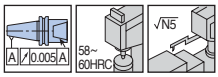
Designation	Dimension (mm)					
	THSZWS	DCONMS	BD	BD_2	OAL	LU
S M08-CT16 - 20-L80	M08	16	15.3	15.3	80	20
40-L100	M08	16	15.3	15.3	100	40
80-L150	M08	16	15.3	15.3	150	80
100-L200	M08	16	13.0	12.5	200	100
140-L200	M08	16	15.3	15.3	200	140
180-L250	M08	16	15.3	15.3	250	180
S M10-CT20 - 20-L80	M10	20	18.5	18.5	80	20
40-L100	M10	20	18.5	18.5	100	40
80-L150	M10	20	18.5	18.5	150	80
100-L200	M10	20	18.5	18.5	200	100
130-L250	M10	20	18.0	17.5	250	130
140-L200	M10	20	18.0	17.5	200	140
140-L200-N	M10	20	18.5	18.5	200	140
180-L250	M10	20	18.0	17.5	250	180
180-L250-N	M10	20	18.5	18.5	250	180
180-L300	M10	20	18.0	17.5	300	180
230-L300	M10	20	18.0	17.5	300	230

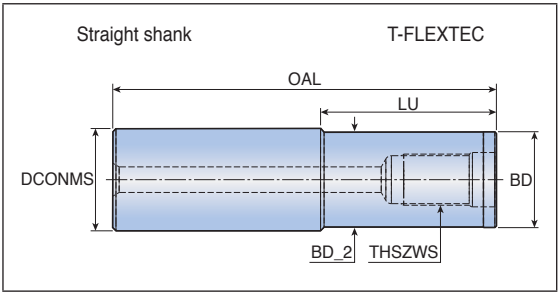
• All shanks have coolant holes

S M12/16-CT-L

Carbide T-FLEXTEC shanks with internal coolant hole







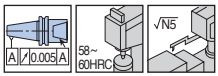
Designation	Dimension (mm)					
	THSZWS	DCONMS	BD	BD_2	OAL	LU
S M12-CT25 - 40-L100	M12	25	24	24.0	100	40
80-L150	M12	25	21	20.5	150	80
80-L150-N	M12	25	24	24.0	150	80
100-L200	M12	25	21	20.5	200	100
100-L200-N	M12	25	24	24.0	200	100
130-L250	M12	25	21	20.5	250	130
140-L200	M12	25	21	20.5	200	140
180-L250	M12	25	24	24.0	250	180
180-L250-B	M12	25	21	20.5	250	180
180-L300	M12	25	21	20.5	300	180
180-L300-N	M12	25	24	24.0	300	180
230-L300	M12	25	21	20.5	300	230
230-L300-N	M12	25	24	24.0	300	230
S M16-CT32 - 40-L100	M16	32	29	29.0	100	40
80-L150	M16	32	29	29.0	150	80
100-L200	M16	32	29	29.0	200	100
130-L250	M16	32	29	29.0	250	130
140-L200	M16	32	29	29.0	200	140
180-L250	M16	32	29	29.0	250	180
180-L300	M16	32	29	29.0	300	180
230-L300	M16	32	29	29.0	300	230
230-L350	M16	32	29	29.0	350	230
280-L350	M16	32	29	29.0	350	280

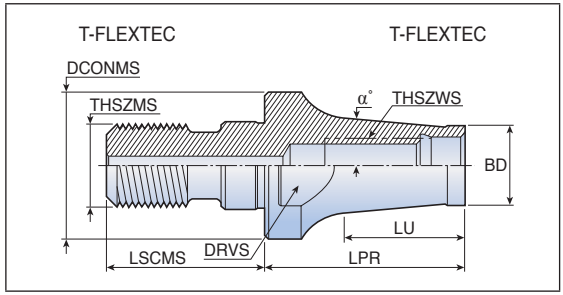
• All shanks have coolant holes

CAB M-M

Reducers





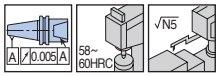


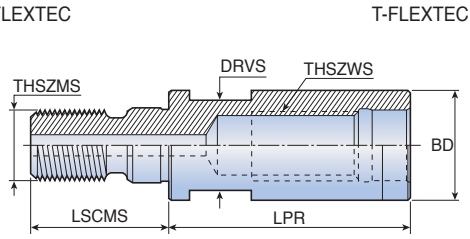
Designation		Dimension (mm)								
		THSZWS	THSZMS	BD	DCONMS	LPR	LSCMS	LU	DRVS	α°
CAB	**M06M08**	M06	M08	9.7	13	30	17.5	24.8	9.5	5.7
	M08M10	M08	M10	13.0	18	40	20.0	33.4	15.0	5.2
	M10M12	M10	M12	18.0	21	45	22.0	36.4	17.0	2.5
	M12M16	M12	M16	21.0	29	50	25.0	42.5	25.0	6.3

• With coolant holes

CAB M-M-C

Extensions





Designation		Dimension (mm)					
		THSZWS	THSZMS	BD	LPR	LSCMS	DRVS
CAB	**M08M08-C**	M08	M08	13	30	17.5	9.6
	M10M10-C	M10	M10	18	35	20.0	15.0
	M12M12-C	M12	M12	21	40	22.0	17.0
	M16M16-C	M16	M16	29	40	25.0	25.0

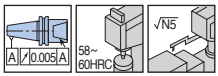
• With coolant holes

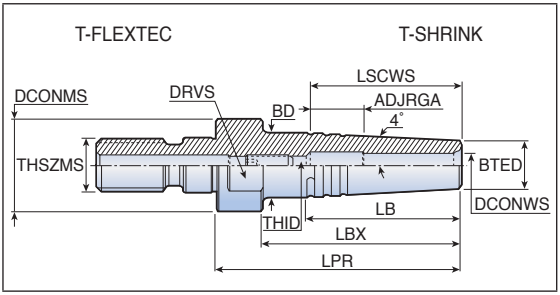
CDP M-SRK

TFLEXTEC TSHRINK

Adapters with SRK T-SHRINK







Designation		Dimension (mm)												
		THSZMS	DCONWS	BTED	BD	DCONMS	LPR	LBX	LB	ADJRGA	LSCWS	THID	DRVS	Hex key
CDP M10	**SRK 3x40**	M10	3	10	14	18	40	31.5	28.4	6	16	M4	15	2.0
	SRK 4x40	M10	4	10	14	18	40	31.5	28.4	7	19	M4	15	2.0
	SRK 5x40	M10	5	10	14	18	40	31.5	28.4	10	25	M4	15	2.0
CDP M12	**SRK 3x45**	M12	3	10	14	21	45	36.5	28.8	6	16	M5	18	2.5
	SRK 4x45	M12	4	10	14	21	45	36.5	28.8	6	18	M5	18	2.5
	SRK 5x45	M12	5	10	14	21	45	36.5	28.8	10	25	M5	18	2.5
	SRK 6x45	M12	6	11	15	21	45	36.5	28.4	10	28	M5	18	2.5
	SRK 8x45	M12	8	14	18	21	45	36.5	28.8	10	35	M5	18	2.5
	SRK 10x45	M12	10	16	21	21	45	-	35.6	10	40	M5	18	2.5
	SRK 12x45	M12	12	20	25	21	45	-	36.0	10	42	M5	18	2.5

G174 G184

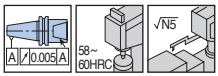
• With coolant holes

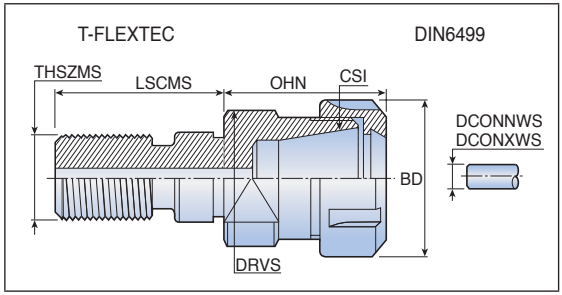
CDP ER-M

TFLEXTEC

Adapters with ER collet chuck







Designation		Dimension (mm)							
		CSI	THSZMS	DCONNWS	DCONXWS	BD	OHN	LSCMS	DRVS
CDP	**ER11 M10 M**	ER11	M10	0.5	7.0	16	27.0	20	15
	ER11 M12 M	ER11	M12	0.5	7.0	16	27.0	22	17
	ER16 M10 M	ER16	M10	0.5	10.0	22	38.1	20	17
	ER16 M12 M	ER16	M12	0.5	10.0	22	37.1	22	17
	ER16 M16	ER16	M16	0.5	10.0	28	36.6	25	25
	ER20 M16	ER20	M16	1.0	13.0	34	45.5	25	25
	ER25 M16	ER25	M16	1.0	16.0	42	44.5	25	28

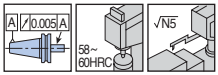
• With coolant holes

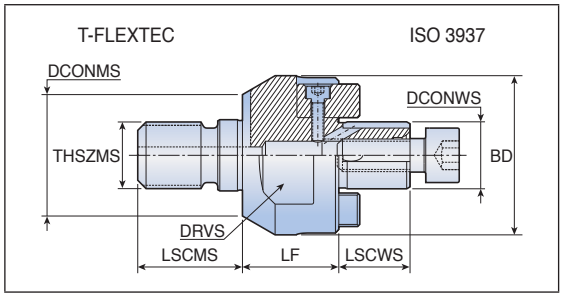
CAB M-SEM-C

TFLEXTEC

Shell mill arbors







Designation		Dimension (mm)							
		THSZMS	DCONWS	DCONMS	BD	LF	LSCWS	LSCMS	DRVS
CAB	**M16 SEM 16C**	M16	16	29	38	23	17	25	32

• With coolant holes


G137-G145

G163-G164

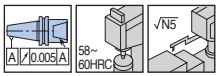
G170

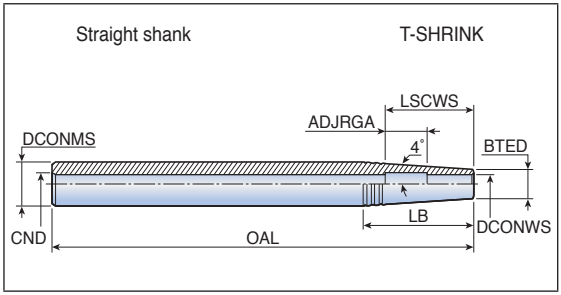
ADVANCE MACHINING
TaeguTec Industry 4.0

ST-SRK

Straight shanks with thermal chuck







Designation	Dimension (mm)							
	DCONMS	DCONWS	CND	BTED	OAL	LB	ADJRGA	LSCWS
ST 12x160 SRK3	12	3	4	10	160	14.3	-	10
12x160 SRK4	12	4	4	10	160	14.3	-	27
16x160 SRK3	16	3	6	10	160	43.0	-	10
16x160 SRK4	16	4	6	10	160	43.0	-	12
16x160 SRK5	16	5	6	10	160	43.0	-	15
16x160 SRK6	16	6	6	11	160	35.5	17	35
20x200 SRK5	20	5	6	10	200	71.5	-	15
20x200 SRK6	20	6	6	11	200	64.5	22	40
20x200 SRK8	20	8	6	14	200	43.0	15	40
25x200 SRK6	25	6	8	11	200	100.0	17	35
25x200 SRK8	25	8	8	14	200	78.6	15	40
25x200 SRK10	25	10	8	16	200	64.3	20	50
25x200 SRK12	25	12	8	20	200	35.7	20	52


G174

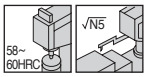


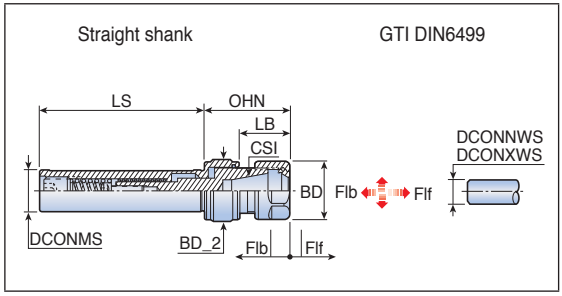
G184

GTI ER-ST

GTI tap attachments







Designation		Dimension (mm)												
		DCONMS	CSI	Tapmin	Tapmax	DCONNWS	DCONXWS	BD	BD_2	OHN	LB	LS	Flf	Flb
GTI	**ER11 ST16x150 M**	16	ER11	M2	M7	0.5	7.0	16	-	-	19.0	150	6	3
	ER16 ST20x80	20	ER16	M3	M10	0.5	10.0	28	29.5	41.6	24.6	80	8	3
	ER20 ST20x80	20	ER20	M4	M14	1.0	13.0	34	33.5	49.0	28.0	80	8	3
	ER25 ST25x80	25	ER25	M5	M16	1.0	16.0	42	40.5	53.0	32.0	80	9	4
	ER32 ST25x80	25	ER32	M6	M20	1.0	16.0	50	56.5	77.2	32.0	80	9	4
	ER40 ST32x80	32	ER40	M6	M27	2.0	20.0	63	56.5	95.2	51.0	80	9	4

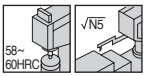
G137-G145 G163-G164 G170 G185

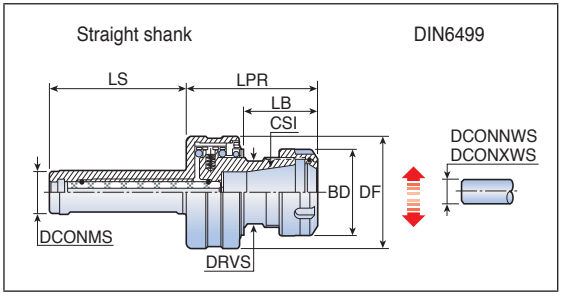
ADVANCE MACHINING
TaeguTec Industry 4.0

GFI ST-ER

GFI floating reamer ER collet chucks







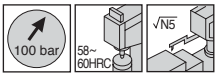
Designation		Dimension (mm)										
		DCONMS	CSI	DCONNWS	DCONXWS	DF	BD	LPR	LB	LS	Radial float	DRVS
GFI	**ST20 ER20**	20	ER20	1.0	13.0	50	34	55.5	34.5	65	1.0	22
	ST25 ER32	25	ER32	2.0	20.0	65	50	76.9	45.9	80	1.6	36

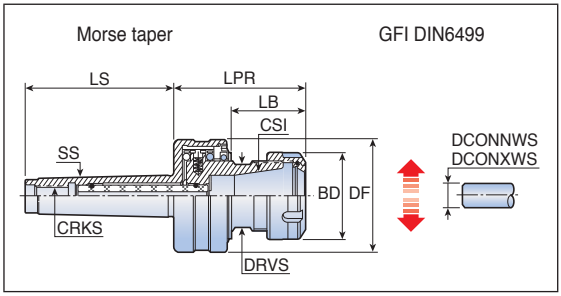
• Max. 2,000RPM

GFI MT-ER

Morse taper GFI reamer holders







Designation		Dimension (mm)											
		SS	CSI	DCONNWS	DCONXWS	DF	BD	LPR	LB	LS	CRKS	Radial float	DRVS
GFI	**MT2 ER20**	2	ER20	1.0	13.0	50	34	60.5	34.5	64	M10	1.0	22
	MT3 ER32	3	ER32	2.0	20.0	65	50	81.9	45.9	81	M12	1.6	36

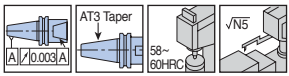


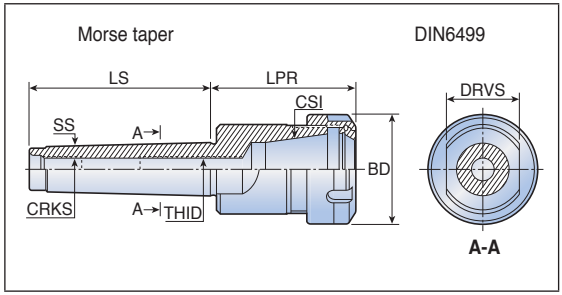
• Max. 2,000RPM

MT-ER

Morse taper collet chucks





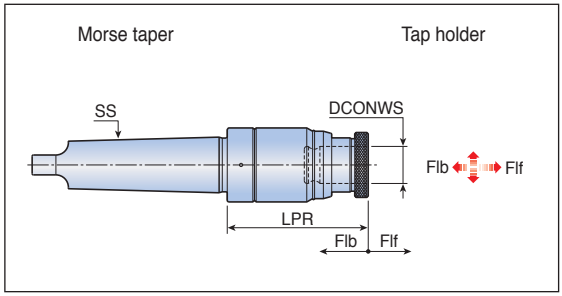


Designation		Dimension (mm)									
		SS	CSI	DCONNWS	DCONXWS	BD	LPR	LS	CRKS	THID	DRVS
MT2	**ER 20x48.5**	2	ER20	1.0	13.0	34	48.5	64.0	M10	M10	22
	ER 25x52	2	ER25	1.0	16.0	42	52.0	64.0	M10	M10	28
MT3	**ER 32x69**	3	ER32	2.0	20.0	50	69.0	81.0	M12	M12	24
	ER 40x79	3	ER40	3.0	26.0	63	79.0	81.0	M12	M12	24
MT4	**ER 32x61**	4	ER32	2.0	20.0	50	60.5	102.5	M16	M16	32
	ER 40x82	4	ER40	3.0	26.0	63	81.5	102.5	M16	M16	32
	ER 50x108	4	ER50	10.0	34.0	78	107.5	102.5	M16	M16	32
MT5	**ER 40x82**	5	ER40	3.0	26.0	63	82.0	129.5	M20	M28x1.5	45
	ER 50x85	5	ER50	10.0	34.0	78	85.0	129.5	M20	M28x1.5	45

MTA-TC

Tap holders - MTA





Designation		Dimension (mm)							
		SS	Tap_{min}	Tap_{max}	DCONWS	LPR	Flb	Flf	Tap adapter
MTA3	**TC12-90**	12	M3	M12	19	90	6.5	12	TA1
	TC22-115	22	M6	M24	31	115	14.5	13	TA2
MTA4	**TC12-105**	12	M3	M12	19	105	6.5	12	TA1
	TC22-115	22	M6	M24	31	115	14.5	13	TA2
MTA5	**TC12-145**	12	M3	M12	19	145	6.5	12	TA1

G137-G145 G161 G163-G164 G170

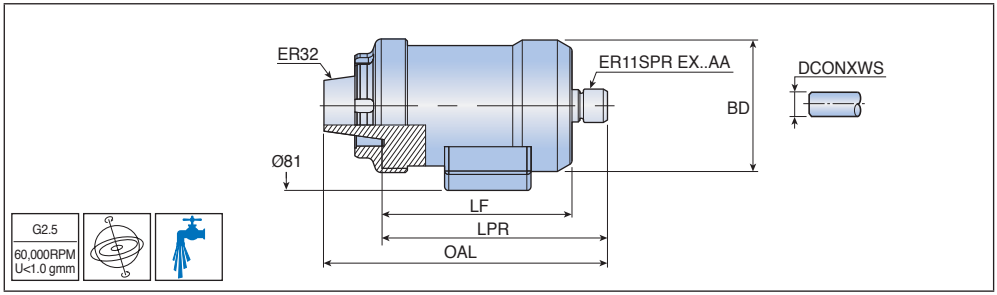
ADVANCE MACHINING
TaeguTec Industry 4.0

TYPHOON



TJS GJET ER

Coolant driven high-speed compact spindles with ER32 shank



Designation	Dimension (mm)					Kg
	DCONXWS	LF	LPR	OAL	BD	
TJS GJET ER32	7.0	92.0	109.0	136.0	63.0	1.3

- Minimum coolant pressure 20 bar and flow rate 12 ℓ/min
- The spindle provides only external strong coolant jet around the tool
- DCONXWS: Maximum tool shank diameter

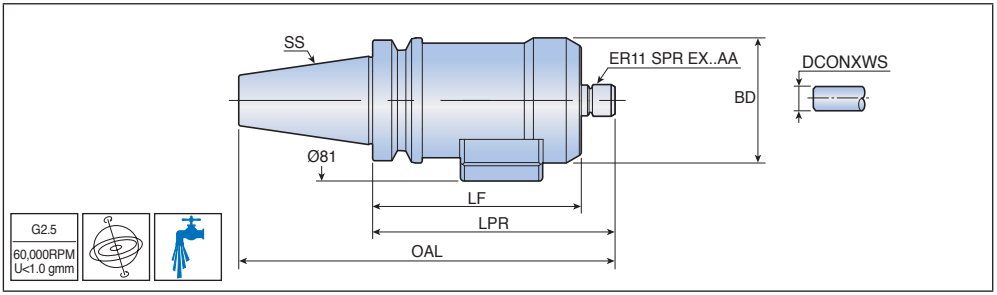
Spare parts

Designation	Mini ER nut	ER wrench	Key	Locking pin	Display*
TJS-GJET-ER32	NUT ER11 GHS	WRENCH ER11 SMS	HW 2.0	TJS SHAFT LOCK KEY	TJS TSD DISPLAY

* Optional, sold separately

TJS GJET BT

Coolant driven high-speed compact spindles with BT shank



Designation	Dimension (mm)						Kg
	SS	DCONXWS	LF	LPR	BD	OAL	
TJS GJET BT30	30	7.0	124.0	141.0	63.0	189.4	1.6
GJET BT40	40	7.0	107.0	124.0	63.0	189.5	1.8

- Minimum coolant pressure 20 bar and flow rate 12 ℓ/min
- The spindle provides only external strong coolant jet around the tool
- DCONXWS: Maximum tool shank diameter

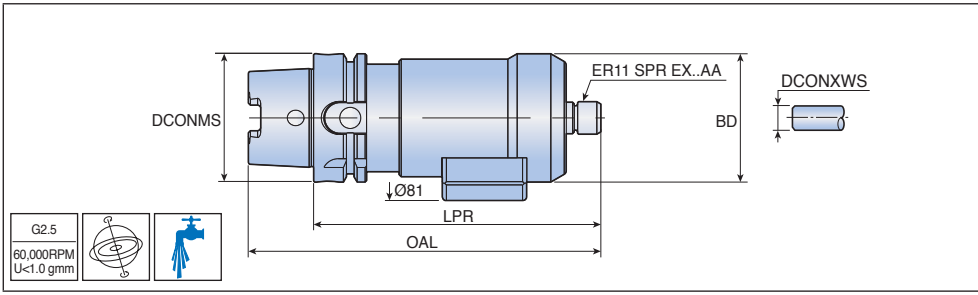
Spare parts

Designation	Mini ER nut	ER wrench	Key	Locking pin	Display*
TJS-GJET-BT	NUT ER11 GHS	WRENCH ER11 SMS	HW 2.0	TJS SHAFT LOCK KEY	TJS TSD DISPLAY

* Optional, sold separately

TJS GJET HSK

Coolant driven high-speed compact spindles with HSK shank



Designation	Dimension (mm)					Kg
	DCONMS	DCONXWS	LPR	OAL	BD	
TJS GJET HSK A63	63.0	7.0	141.0	173.0	63.0	1.8

- Minimum coolant pressure 20 bar and flow rate 12 ℓ/min
- The spindle provides only external strong coolant jet around the tool
- DCONXWS: Maximum tool shank diameter

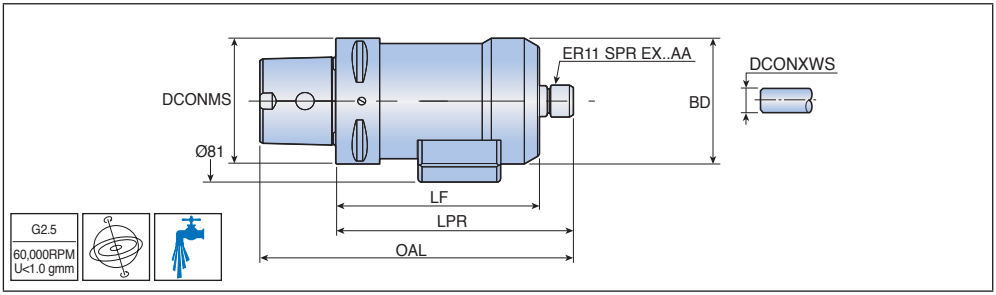
Spare parts

Designation	Mini ER nut	ER wrench	Key	Locking pin	Display*
TJS-GJET-HSK A63	NUT ER11 GHS	WRENCH ER11 SMS	HW 2.0	TJS SHAFT LOCK KEY	TJS TSD DISPLAY

* Optional, sold separately

TJS GJET C

Coolant driven high-speed compact spindles with C-ADAPTER shank



Designation		Dimension (mm)						Kg
		DCONMS	DCONXWS	LF	LPR	OAL	BD	
TJS	**GJET C5**	50.0	7.0	112.0	129.0	129.0	63.0	1.5
	GJET C6	63.0	7.0	102.0	119.0	119.0	63.0	1.6

- Minimum coolant pressure 20 bar and flow rate 12 ℓ/min
- The spindle provides only external strong coolant jet around the tool
- DCONXWS: Maximum tool shank diameter

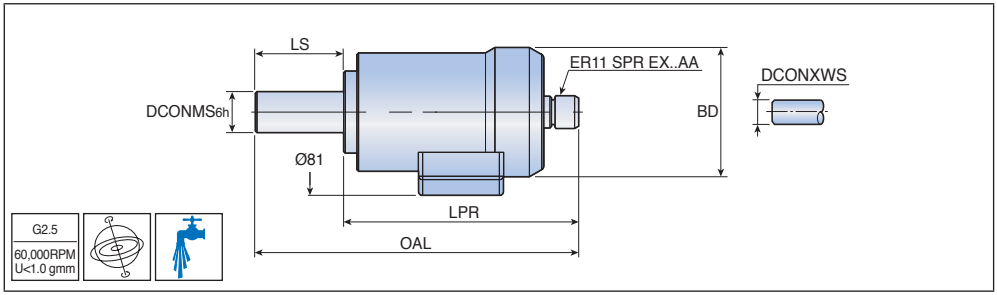
Spare parts

Designation	Mini ER nut	ER wrench	Key	Locking pin	Display*
TJS-GJET-C	NUT ER11 GHS	WRENCH ER11 SMS	HW 2.0	TJS SHAFT LOCK KEY	TJS TSD DISPLAY

* Optional, sold separately

TJS GJET ST

Coolant driven high-speed compact spindles with cylindrical shank



Designation	Dimension (mm)						Kg
	DCONMS	DCONXWS	LS	LPR	OAL	BD	
TJS GJET ST20	20.0	7.0	43.0	115.0	158.0	63.0	1.2

- Minimum coolant pressure 20 bar and flow rate 12 ℓ/min
- The spindle provides only external strong coolant jet around the tool
- DCONXWS: Maximum tool shank diameter

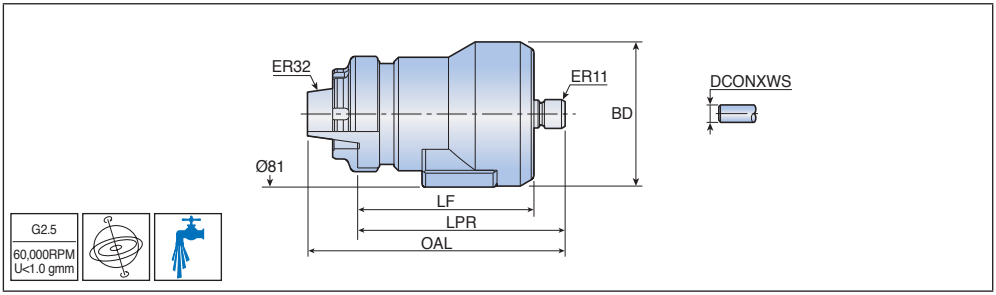
Spare parts

Designation	Mini ER nut	ER wrench	Key	Locking pin	Display*
TJS-GJET-ST	NUT ER11 GHS	WRENCH ER11 SMS	HW 2.0	TJS SHAFT LOCK KEY	TJS TSD DISPLAY

* Optional, sold separately

TJS HPC ER

High-pressure coolant driven spindle with ER32 shank for small diameter cutting tools



Designation	Dimension (mm)					Kg
	DCONXWS	LF	LPR	OAL	BD	
TJS HPC ER32	7.0	99.0	116.0	114.0	80	2.0

- Coolant pressure: 40 - 70 bar and flow rate: 16 - 22 ℓ/min
- Rotational spindle speed [rpm]: 25,000 - 45,000 (rev/min)
- The spindle provides only external strong coolant jet around the tool
- DCONXWS: Maximum diameter of tools

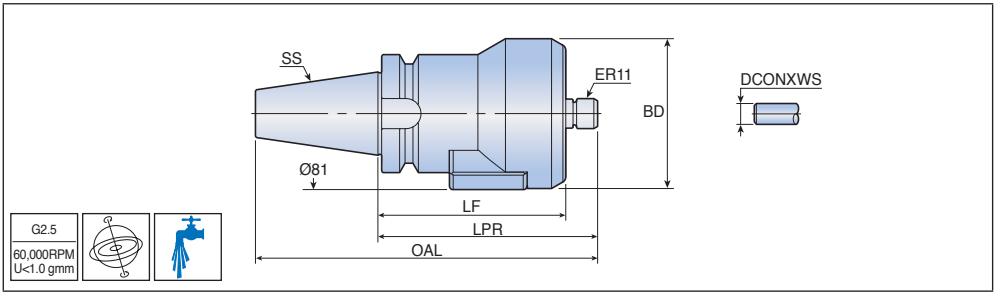
Spare parts

Designation	Mini ER nut	ER wrench	Key	Locking pin	Display*
TJS HPC ER32	NUT ER11 GHS	WRENCH ER11 SMS	HW 2.0	TJS SHAFT LOCK KEY	TJS TSD DISPLAY

* Optional, sold separately

TJS HPC BT

High-pressure coolant driven spindle with BT shank for small diameter cutting tools



Designation	Dimension (mm)						Kg
	SS	DCONXWS	LF	LPR	BD	OAL	
TJS HPC BT40	40	70	100.0	117.0	80	183.0	2.0

- Coolant pressure: 40 - 70 bar and flow rate: 16 - 22 ℓ/min
- Rotational spindle speed [rpm]: 25,000 - 45,000 (rev/min)
- The spindle provides only external strong coolant jet around the tool
- DCONXWS: Maximum diameter of tools

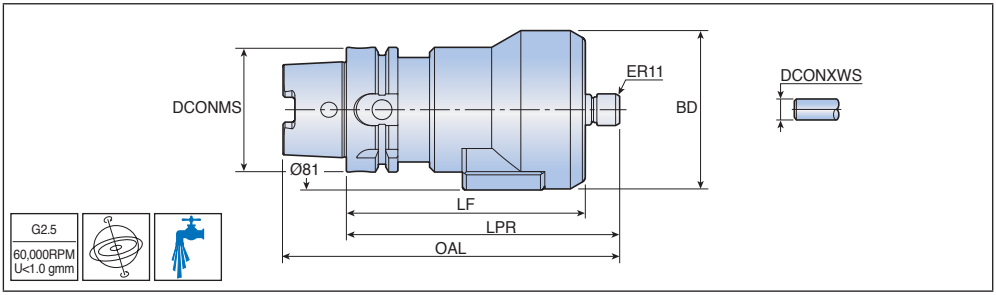
Spare parts

Designation	Mini ER nut	ER wrench	Key	Locking pin	Display*
TJS HPC BT40	NUT ER11 GHS	WRENCH ER11 SMS	HW 2.0	TJS SHAFT LOCK KEY	TJS TSD DISPLAY

* Optional, sold separately

TJS HPC HSK A

High-pressure coolant driven spindle with HSK shank for small diameter cutting tools



Designation	Dimension (mm)						Kg
	DCONMS	DCONXWS	LF	LPR	OAL	BD	
TJS HPC HSK A63	63	7.0	121	138	170	80	2.0

- Coolant pressure: 40 - 70 bar and flow rate: 16 - 22 ℓ/min
- Rotational spindle speed [rpm]: 25,000 - 45,000 (rev/min)
- The spindle provides only external strong coolant jet around the tool
- DCONXWS: Maximum diameter of tools

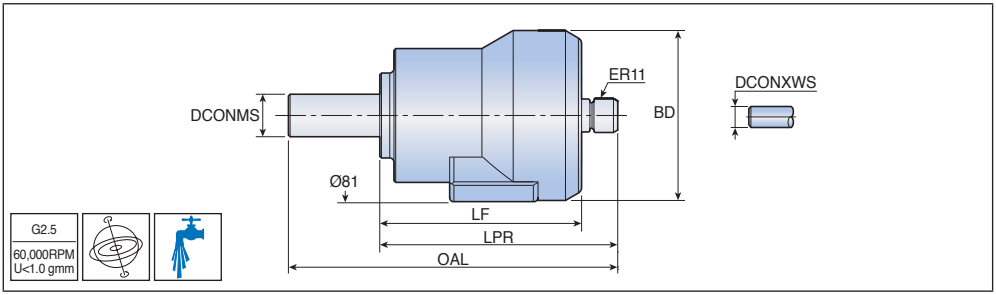
Spare parts

Designation	Mini ER nut	ER wrench	Key	Locking pin	Display*
TJS HPC HSK A63	NUT ER11 GHS	WRENCH ER11 SMS	HW 2.0	TJS SHAFT LOCK KEY	TJS TSD DISPLAY

* Optional, sold separately

TJS HPC ST

High-pressure coolant driven spindle with straight shank for small diameter cutting tools



Designation	Dimension (mm)						Kg
	DCONMS	DCONXWS	LPR	OAL	LF	BD	
TJS HPC ST20	20	7.0	112	155	95	80	1.5

- Coolant pressure: 40 - 70 bar and flow rate: 16 - 22 ℓ/min
- Rotational spindle speed [rpm]: 25,000 - 45,000 (rev/min)
- The spindle provides only external strong coolant jet around the tool
- DCONXWS: Maximum diameter of tools

Spare parts

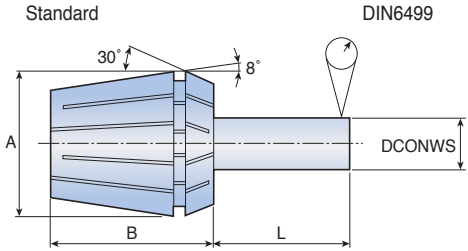
Designation	Mini ER nut	ER wrench	Key	Locking pin	Display*
TJS HPC ST20	NUT ER11 GHS	WRENCH ER11 SMS	HW 2.0	TJS SHAFT LOCK KEY	TJS TSD DISPLAY

* Optional, sold separately

Collet



Collet



Precision

(mm)

DCONWSrange	L	Run-out		
		Standard precision	Ultra precision	DIN6499
1.0-1.6	**6**	0.01	0.005	-
1.6-3.0	**10**	0.01	0.005	0.015
3.0-6.0	**16**	0.01	0.005	0.015
6.0-10.0	**25**	0.01	0.005	0.015
10.0-18.0	**40**	0.01	0.005	0.020
18.0-26.0	**50**	0.01	0.005	0.020
26.0-34	**60**	-	-	0.025

Dimension

(mm)

Type	A	B
ER11	11.5	18
ER16	17.0	27
ER20	21.0	31
ER25	26.0	35
ER32	33.0	40
ER40	41.0	46
ER50	52.0	60

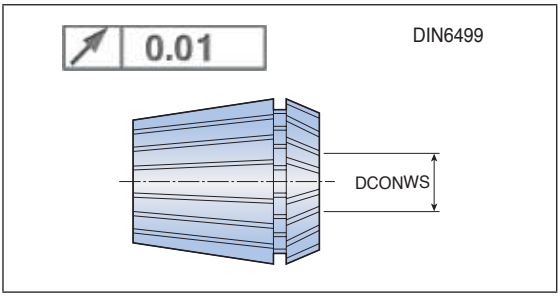
Technical Data
G175-G177

ER-SPR

ER spring collets - Precision







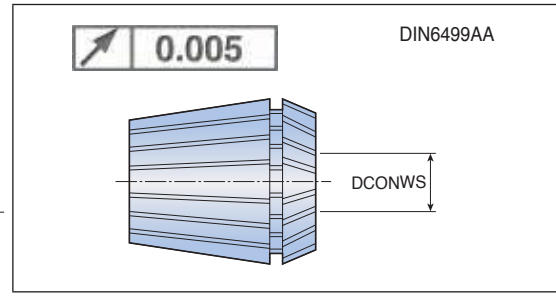
DCONWSrange		ER11	ER16	ER20	ER25	ER32	ER40	ER50
0.5-1		ER11 SPR 0.5-1.0	ER16 SPR 0.5-1					
1-2	**1-1.5**	1.0-1.5	1-2	ER20 SPR 1-2	ER25 SPR 1-2			
	1.5-2	1.5-2.0						
2-3	**2-2.5**	2.0-2.5	2-3	2-3	2-3	ER32 SPR 2-3		
	2.5-3	2.5-3.0						
3-4	**3-3.5**	3.0-3.5	3-4	3-4	3-4	3-4	ER40 SPR 3-4	
	3.5-4	3.5-4.0						
4-5	**4-4.5**	4.0-4.5	4-5	4-5	4-5	4-5	4-5	
	4.5-5	4.5-5.0						
5-6	**5-5.5**	5.0-5.5	5-6	5-6	5-6	5-6	5-6	
	5.5-6	5.5-6.0						
6-7	**6-6.5**	6.0-6.5	6-7	6-7	6-7	6-7	6-7	
	6.5-7	6.5-7.0						
7-8			7-8	7-8	7-8	7-8	7-8	
8-9			8-9	8-9	8-9	8-9	8-9	
9-10			9-10	9-10	9-10	9-10	9-10	
10-11				10-11	10-11	10-11	10-11	ER50 SPR 10-12
11-12				11-12	11-12	11-12	11-12	ER50 SPR 10-12
12-13				12-13	12-13	12-13	12-13	12-14
13-14					13-14	13-14	13-14	12-14
14-15					14-15	14-15	14-15	14-16
15-16					15-16	15-16	15-16	14-16
16-17						16-17	16-17	16-18
17-18						17-18	17-18	16-18
18-19						18-19	18-19	18-20
19-20						19-20	19-20	18-20
20-21							20-21	20-22
21-22							21-22	20-22
22-23							22-23	22-24
23-24							23-24	22-24
24-25							24-25	24-26
25-26							25-26	24-26
26-28								26-28
28-30								28-30
30-32								30-32
32-34								32-34

ER-SPR-AA

ER spring collets - Ultra precision “AA”







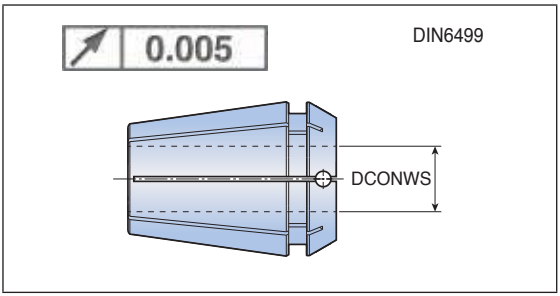
DCONWSrange		ER11	ER16	ER20	ER25	ER32	ER40
0.5-1		ER11 SPR 0.5-1.0AA	ER16 SPR 0.5-1AA				
1-2	**1-1.5**	1.0-1.5AA	1-2AA	ER20 SPR 1-2AA	ER25 SPR 1-2AA		
	1.5-2	1.5-2.0AA					
2-3	**2-2.5**	2.0-2.5AA	2-3AA	2-3AA	2-3AA	ER32 SPR 2-3AA	
	2.5-3	2.5-3.0AA					
3-4	**3-3.5**	3.0-3.5AA	3-4AA	3-4AA	3-4AA	3-4AA	ER40 SPR 3-4AA
	3.5-4	3.5-4.0AA					
4-5	**4-4.5**	4.0-4.5AA	4-5AA	4-5AA	4-5AA	4-5AA	4-5AA
	4.5-5	4.5-5.0AA					
5-6	**5-5.5**	5.0-5.5AA	5-6AA	5-6AA	5-6AA	5-6AA	5-6AA
	5.5-6	5.5-6.0AA					
6-7	**6-6.5**	6.0-6.5AA	6-7AA	6-7AA	6-7AA	6-7AA	6-7AA
	6.5-7	6.5-7.0AA					
7-8			7-8AA	7-8AA	7-8AA	7-8AA	7-8AA
8-9			8-9AA	8-9AA	8-9AA	8-9AA	8-9AA
9-10			9-10AA	9-10AA	9-10AA	9-10AA	9-10AA
10-11				10-11AA	10-11AA	10-11AA	10-11AA
11-12				11-12AA	11-12AA	11-12AA	11-12AA
12-13				12-13AA	12-13AA	12-13AA	12-13AA
13-14					13-14AA	13-14AA	13-14AA
14-15					14-15AA	14-15AA	14-15AA
15-16					15-16AA	15-16AA	15-16AA
16-17						16-17AA	16-17AA
17-18						17-18AA	17-18AA
18-19						18-19AA	18-19AA
19-20						19-20AA	19-20AA
20-21							20-21AA
21-22							21-22AA
22-23							22-23AA
23-24							23-24AA
24-25							24-25AA
25-26							25-26AA

ER-SEAL-AA

ER sealed collets - Ultra precision







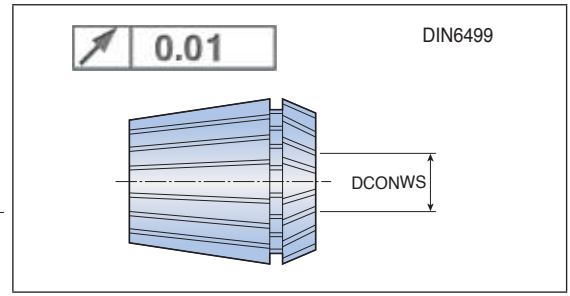
DCONWSrange	ER11	ER16	ER20	ER25	ER32	ER40
3	ER11 SEAL 3 AA					
4	4 AA	ER16 SEAL 4 AA	ER20 SEAL 4 AA	ER25 SEAL 4 AA	ER32 SEAL 4 AA	
5	5 AA	5 AA	5 AA	5 AA	5 AA	
6	6 AA	6 AA	6 AA	6 AA	6 AA	ER40 SEAL 6 AA
7		7 AA	7 AA	7 AA	7 AA	
8		8 AA	8 AA	8 AA	8 AA	8 AA
9		9 AA	9 AA	9 AA	9 AA	
10		10 AA	10 AA	10 AA	10 AA	10 AA
11			11 AA	11 AA	11 AA	
12			12 AA	12 AA	12 AA	12 AA
13				13 AA	13 AA	
14				14 AA	14 AA	14 AA
15				15 AA	15 AA	
16				16 AA	16 AA	16 AA
17					17 AA	
18					18 AA	18 AA
19					19 AA	
20					20 AA	20 AA
21						
22						22 AA
23						
24						
25						25 AA

ER-SEAL-JET2

TaeguTec standard precision - Sealed JET2 collets







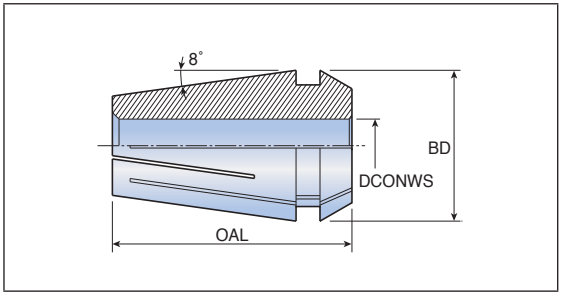
DCONWSrange	ER16	ER20	ER25	ER32	ER40
3-4	ER16 SEAL 3-4JET2	ER20 SEAL 3-4JET2	ER25 SEAL 3-4JET2	ER32 SEAL 3-4JET2	ER40 SEAL 3-4JET2
4-5	4-5JET2	4-5JET2	4-5JET2	4-5JET2	4-5JET2
5-6	5-6JET2	5-6JET2	5-6JET2	5-6JET2	5-6JET2
6-7	6-7JET2	6-7JET2	6-7JET2	6-7JET2	6-7JET2
7-8	7-8JET2	7-8JET2	7-8JET2	7-8JET2	7-8JET2
8-9	8-9JET2	8-9JET2	8-9JET2	8-9JET2	8-9JET2
9-10	9-10JET2	9-10JET2	9-10JET2	9-10JET2	9-10JET2
10-11		10-11JET2	10-11JET2	10-11JET2	10-11JET2
11-12		11-12JET2	11-12JET2	11-12JET2	11-12JET2
12-13		12-13JET2	12-13JET2	12-13JET2	12-13JET2
13-14			13-14JET2	13-14JET2	13-14JET2
14-15			14-15JET2	14-15JET2	14-15JET2
15-16			15-16JET2	15-16JET2	15-16JET2
16-17				16-17JET2	16-17JET2
17-18				17-18JET2	17-18JET2
18-19				18-19JET2	18-19JET2
19-20				19-20JET2	19-20JET2
20-21					20-21JET2
21-22					21-22JET2
22-23					22-23JET2
23-24					23-24JET2
24-25					24-25JET2
25-26					25-26JET2

EROH

ER collets for internal coolant







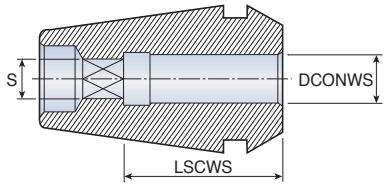
Designation	Dimension (mm)		
	DCONWS range	BD	OAL
EROH 16	4.0-10.0	17	27.5
EROH 20	6.0-13.0	21	31.5
EROH 25	6.0-16.0	26	34.0
EROH 32	8.0-20.0	33	40.0
EROH 40	10.0-26.0	41	46.0

DCONWS	ER16	ER20	ER25	ER32	ER40
4	EROH 16-4				
5	EROH 16-5				
6	EROH 16-6	EROH 20-6	EROH 25-6		
7	EROH 16-7	EROH 20-7	EROH 25-7		
8	EROH 16-8	EROH 20-8	EROH 25-8	EROH 32-8	
9	EROH 16-9	EROH 20-9	EROH 25-9	EROH 32-9	
10	EROH 16-10	EROH 20-10	EROH 25-10	EROH 32-10	EROH 40-10
11		EROH 20-11	EROH 25-11	EROH 32-11	EROH 40-11
12		EROH 20-12	EROH 25-12	EROH 32-12	EROH 40-12
13		EROH 20-13	EROH 25-13	EROH 32-13	EROH 40-13
14			EROH 25-14	EROH 32-14	EROH 40-14
15			EROH 25-15	EROH 32-15	EROH 40-15
16			EROH 25-16	EROH 32-16	EROH 40-16
17				EROH 32-17	EROH 40-17
18				EROH 32-18	EROH 40-18
19				EROH 32-19	EROH 40-19
20				EROH 32-20	EROH 40-20
21					EROH 40-21
22					EROH 40-22
23					EROH 40-23
24					EROH 40-24
25					EROH 40-25
26					EROH 40-26

ER TAP (For JIS)

ER type tap collets





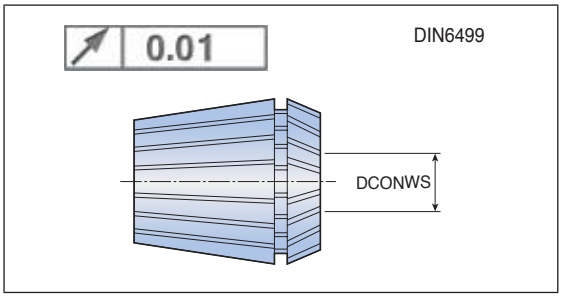
Tap size	Dimension (mm)			ER TAP 16	ER TAP 20	ER TAP 25	ER TAP 32	ER TAP 40
	LSCWS	DCONWS	S					
M4	15	5.0	4.0	ER TAP 16-M4	ER TAP 20-M4	ER TAP 25-M4	ER TAP 32-M4	
M5	15	5.5	4.5	ER TAP 16-M5	ER TAP 20-M5	ER TAP 25-M5	ER TAP 32-M5	
M6	15	6.0	4.5	ER TAP 16-M6	ER TAP 20-M6	ER TAP 25-M6	ER TAP 32-M6	
M8	20	6.2	5.0	ER TAP 16-M8	ER TAP 20-M8	ER TAP 25-M8	ER TAP 32-M8	
M10	20	7.0	5.5	ER TAP 16-M10	ER TAP 20-M10	ER TAP 25-M10	ER TAP 32-M10	ER TAP 40-M10
M12	20	8.5	6.5		ER TAP 20-M12	ER TAP 25-M12	ER TAP 32-M12	ER TAP 40-M12
M14	25	10.5	8.0			ER TAP 25-M14	ER TAP 32-M14	ER TAP 40-M14
M16	25	12.5	10.0			ER TAP 25-M16	ER TAP 32-M16	ER TAP 40-M16
M18	30	14.0	11.0				ER TAP 32-M18	ER TAP 40-M18
M20	30	15.0	12.0				ER TAP 32-M20	ER TAP 40-M20
M22	30	17.0	13.0					ER TAP 40-M22
M24	35	19.0	15.0					ER TAP 40-M24
M27	35	20.0	15.0					ER TAP 40-M27

• Tap specification is based on JIS (DIN or ISO standard prepared by special quotation)

SET ER-SPR

ER spring collet sets - Precision





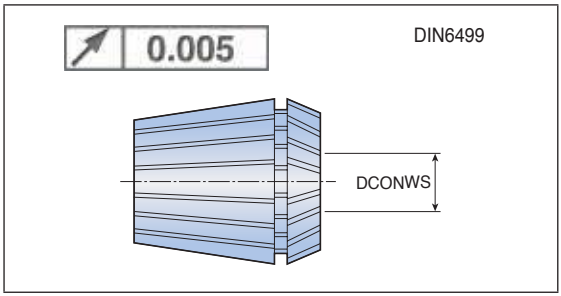
46 ~ 48HRC

Designation	Pieces / set	DCONWS range
SET ER11 SPR 13	13	0.5-7
ER16 SPR 10	10	0.5-10
ER20 SPR 12	12	1-13
ER25 SPR 15	15	1-16
ER32 SPR 18	18	2-20
ER40 SPR 23	23	3-26
ER50 SPR 12	12	10-34

SET ER-SPR-AA

ER spring collet sets – Ultra precision "AA"





46~ 48HRC

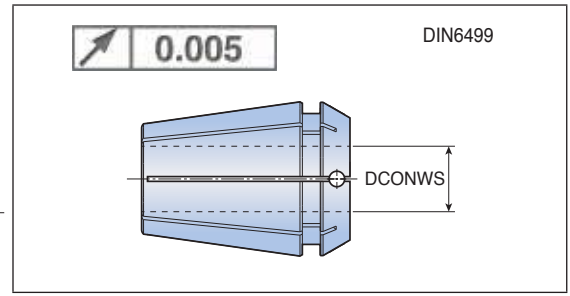
Designation	Pieces / set	DCONWS range
SET ER11 SPR 13AA	13	0.5-7
ER16 SPR 10AA	10	0.5-10
ER20 SPR 12AA	12	1-13
ER25 SPR 15AA	15	1-16
ER32 SPR 18AA	18	2-20
ER40 SPR 23AA	23	3-26

SET ER-SEAL-AA

ER sealed collet sets - Ultra precision





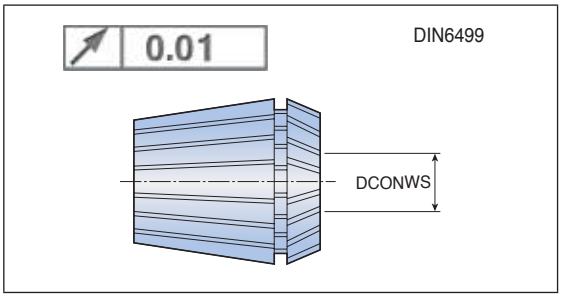


Designation	Pieces / set	DCONWS range
SET ER16 SEAL 7 AA	7	4-10
ER20 SEAL 9 AA	9	4-12
ER25 SEAL 13 AA	13	4-16
ER32 SEAL 17 AA	17	4-20
ER40 SEAL 10 AA	10	6-25

SET ER-SPR-EM

ER spring collet sets - Precision





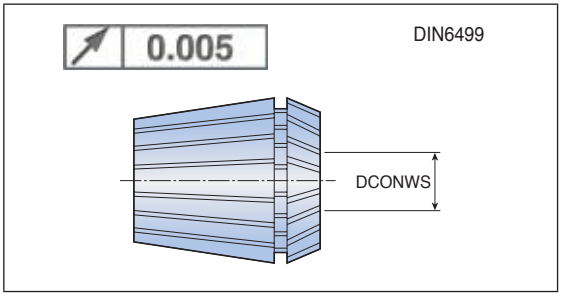
46 ~ 48HRC

Designation	Pieces / set	DCONWS range
SET ER16 SPR 7 EM	7	1,2,3,4,5,6,7
ER16 SPR 8 EM	8	3, 4, 5, 6, 7, 8, 9, 10
ER20 SPR 5 EM	5	4, 6, 8, 10, 12
ER25 SPR 6 EM	6	4, 6, 8, 10, 12, 16
ER32 SPR 6 EM	6	6, 8, 10, 12, 16, 20
ER40 SPR 7 EM	7	6, 8, 10, 12, 16, 20, 25

SET ER-SPR-EM AA

ER spring collet sets – Ultra precision "AA"





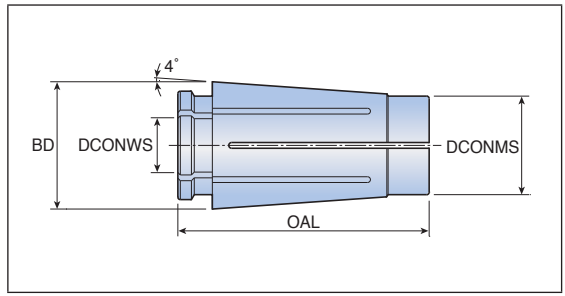
46 ~ 48HRC

Designation	Pieces / set	DCONWS range
SET ER11 SPR 7 EM AA	7	1,2,3,4,5,6,7

TSK

TSK collets





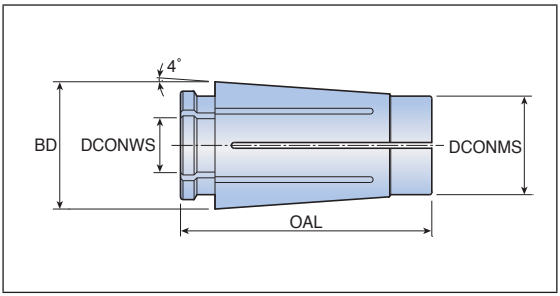
Designation	Dimension (mm)		
	BD	DCONMS	OAL
TSK 06	10.4	7.5	25.0
TSK 10	15.5	12.0	30.6
TSK 16	24.6	18.8	45.0
TSK 25	35.7	28.8	57.0

DCONWS range	TSK 06	TSK 10	TSK 16	TSK 25
1.5-2.0	TSK 06-2.0	TSK 10-2.0		
2.0-2.5	TSK 06-2.5	TSK 10-2.5		
2.5-3.0	TSK 06-3.0	TSK 10-3.0	TSK 16-3.0	
3.0-3.5	TSK 06-3.5	TSK 10-3.5	TSK 16-3.5	
3.5-4.0	TSK 06-4.0	TSK 10-4.0	TSK 16-4.0	
4.0-4.5	TSK 06-4.5	TSK 10-4.5	TSK 16-4.5	
4.5-5.0	TSK 06-5.0	TSK 10-5.0	TSK 16-5.0	
5.0-5.5	TSK 06-5.5	TSK 10-5.5	TSK 16-5.5	
5.5-6.0	TSK 06-6.0	TSK 10-6.0	TSK 16-6.0	
6.0-6.5		TSK 10-6.5	TSK 16-6.5	
6.5-7.0		TSK 10-7.0	TSK 16-7.0	
7.0-7.5		TSK 10-7.5	TSK 16-7.5	
7.5-8.0		TSK 10-8.0	TSK 16-8.0	TSK 25-8.0
8.0-8.5		TSK 10-8.5	TSK 16-8.5	TSK 25-8.5
8.5-9.0		TSK 10-9.0	TSK 16-9.0	TSK 25-9.0
9.0-9.5		TSK 10-9.5	TSK 16-9.5	TSK 25-9.5
9.5-10.0		TSK 10-10.0	TSK 16-10.0	TSK 25-10.0
10.0-10.5			TSK 16-10.5	TSK 25-10.5
10.5-11.0			TSK 16-11.0	TSK 25-11.0
11.0-11.5			TSK 16-11.5	TSK 25-11.5
11.5-12.0			TSK 16-12.0	TSK 25-12.0
12.0-12.5			TSK 16-12.5	TSK 25-12.5
12.5-13.0			TSK 16-13.0	TSK 25-13.0
13.0-13.5			TSK 16-13.5	TSK 25-13.5
13.5-14.0			TSK 16-14.0	TSK 25-14.0
14.0-14.5			TSK 16-14.5	TSK 25-14.5
14.5-15.0			TSK 16-15.0	TSK 25-15.0
15.0-15.5			TSK 16-15.5	TSK 25-15.5
15.5-16.0			TSK 16-16.0	TSK 25-16.0
16.0-16.5				TSK 25-16.5
16.5-17.0				TSK 25-17.0

TSK

TSK collets





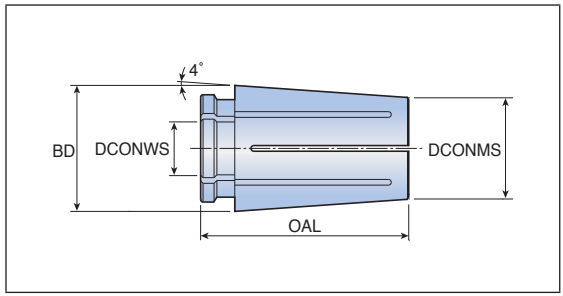
Designation	Dimension (mm)		
	BD	DCONMS	OAL
TSK 06	10.4	7.5	25.0
TSK 10	15.5	12.0	30.6
TSK 16	24.6	18.8	45.0
TSK 25	35.7	28.8	57.0

DCONWS range	TSK 06	TSK 10	TSK 16	TSK 25
17.0-17.5				TSK 25-17.5
17.5-18.0				TSK 25-18.0
18.0-18.5				TSK 25-18.5
18.5-19.0				TSK 25-19.0
19.0-19.5				TSK 25-19.5
19.5-20.0				TSK 25-20.0
20.0-20.5				TSK 25-20.5
20.5-21.0				TSK 25-21.0
21.0-21.5				TSK 25-21.5
21.5-22.0				TSK 25-22.0
22.0-22.5				TSK 25-22.5
22.5-23.0				TSK 25-23.0
23.0-23.5				TSK 25-23.5
23.5-24.0				TSK 25-24.0
24.0-24.5				TSK 25-24.5
24.5-25.0				TSK 25-25.0

TSKC

Internal coolant type collets for TSK chucks





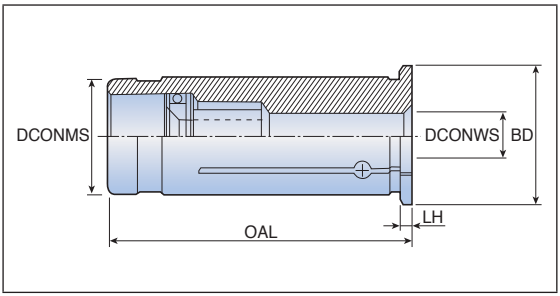
Designation	Dimension (mm)		
	BD	DCONMS	OAL
TSKC 06	10.4	8.00	21.0
TSKC 10	15.5	12.50	25.6
TSKC 16	24.6	20.12	37.0
TSKC 25	35.7	29.70	48.5

DCONWSrange	TSKC 06	TSKC 10	TSKC 16	TSKC 25
4	TSKC 06-4.0			
5	TSKC 06-5.0			
6	TSKC 06-6.0	TSKC 10-6.0		
7		TSKC 10-7.0		
8		TSKC 10-8.0	TSKC 16-8.0	
9		TSKC 10-9.0	TSKC 16-9.0	
10		TSKC 10-10.0	TSKC 16-10.0	
11			TSKC 16-11.0	
12			TSKC 16-12.0	
13			TSKC 16-13.0	
14			TSKC 16-14.0	
15			TSKC 16-15.0	
16			TSKC 16-16.0	TSKC 25-16.0
17				TSKC 25-17.0
18				TSKC 25-18.0
19				TSKC 25-19.0
20				TSKC 25-20.0
21				TSKC 25-21.0
22				TSKC 25-22.0
23				TSKC 25-23.0
24				TSKC 25-24.0
25				TSKC 25-25.0

THC

Straight collets for hydraulic chucks



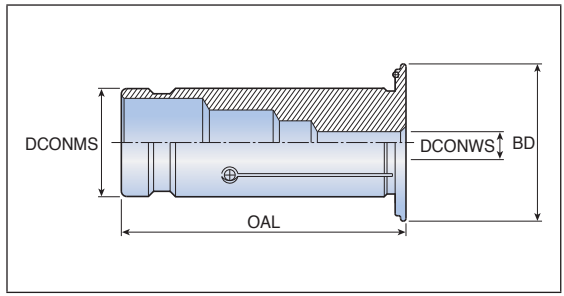


Designation	Dimension (mm)				
	DCONMS	DCONWS	BD	OAL	LH
THC 12-3	12	3	16	46.5	2
12-4	12	4	16	46.5	2
12-5	12	5	16	46.5	2
12-6	12	6	16	46.5	2
12-7	12	7	16	46.5	2
12-8	12	8	16	46.5	2
12-9	12	9	16	46.5	2
20-3	20	3	24	50.5	2
20-4	20	4	24	50.5	2
20-5	20	5	24	50.5	2
20-6	20	6	24	50.5	2
20-7	20	7	24	50.5	2
20-8	20	8	24	50.5	2
20-9	20	9	24	50.5	2
20-10	20	10	24	50.5	2
20-11	20	11	24	50.5	2
20-12	20	12	24	50.5	2
20-13	20	13	24	50.5	2
20-14	20	14	24	50.5	2
20-15	20	15	24	50.5	2
20-16	20	16	24	50.5	2
20-17	20	17	24	50.5	2
32-6	32	6	36	60.5	3
32-8	32	8	36	60.5	3
32-10	32	10	36	60.5	3
32-12	32	12	36	60.5	3
32-14	32	14	36	60.5	3
32-16	32	16	36	60.5	3
32-18	32	18	36	60.5	3
32-20	32	20	36	60.5	3
32-25	32	25	36	60.5	3

THC C

Straight collets of internal coolant type for hydraulic chucks



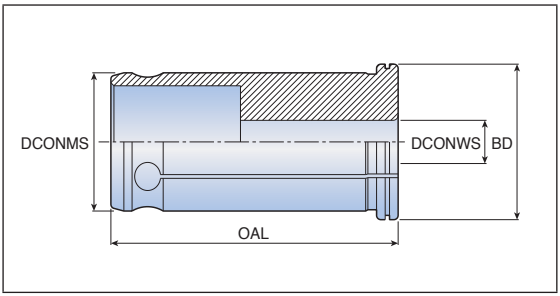


Designation	Dimension (mm)			
	DCONMS	DCONWS	BD	OAL
THC C12-3	12	3	19	47.0
C12-4	12	4	19	47.0
C12-5	12	5	19	47.0
C12-6	12	6	19	47.0
C12-7	12	7	19	47.0
C12-8	12	8	19	47.0
C20-3	20	3	29	52.5
C20-4	20	4	29	52.5
C20-5	20	5	29	52.5
C20-6	20	6	29	52.5
C20-7	20	7	29	52.5
C20-8	20	8	29	52.5
C20-9	20	9	29	52.5
C20-10	20	10	29	52.5
C20-11	20	11	29	52.5
C20-12	20	12	29	52.5
C20-13	20	13	29	52.5
C20-14	20	14	29	52.5
C20-15	20	15	29	52.5
C20-16	20	16	29	52.5
C20-17	20	17	29	52.5
C32-6	32	6	39	63.5
C32-8	32	8	39	63.5
C32-10	32	10	39	63.5
C32-12	32	12	39	63.5
C32-14	32	14	39	63.5
C32-16	32	16	39	63.5
C32-18	32	18	39	63.5
C32-20	32	20	39	63.5
C32-25	32	25	39	63.5

NCSR

Straight collets for milling chucks: general type



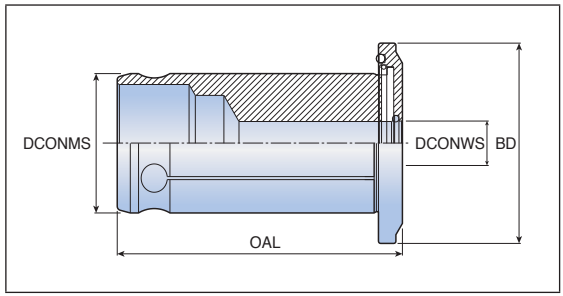


Designation	Dimension (mm)			
	DCONMS	DCONWS	BD	OAL
NCSR 20-6	20	6	25	55
20-8	20	8	25	55
20-10	20	10	25	55
20-12	20	12	25	55
20-16	20	16	25	55
25-6	25	6	29	59
25-8	25	8	29	59
25-10	25	10	29	59
25-12	25	12	29	59
25-16	25	16	29	59
25-20	25	20	29	59
32-6	32	6	36	65
32-8	32	8	36	65
32-10	32	10	36	65
32-12	32	12	36	65
32-16	32	16	36	65
32-20	32	20	36	65
32-25	32	25	36	65
42-6	42	6	45	70
42-8	42	8	45	70
42-10	42	10	45	70
42-12	42	12	45	70
42-16	42	16	45	70
42-20	42	20	45	70
42-25	42	25	45	70
42-32	42	32	45	70

NCSR-C

Straight collets for milling chucks: internal coolant type





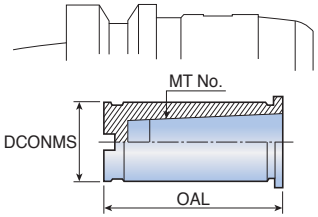
Designation	Dimension (mm)			
	DCONMS	DCONWS	BD	OAL
NCSR 20-6C	20	6	34.4	55
20-8C	20	8	34.4	55
20-10C	20	10	34.4	55
20-12C	20	12	34.4	55
20-16C	20	16	34.4	55
25-6C	25	6	39.4	59
25-8C	25	8	39.4	59
25-10C	25	10	39.4	59
25-12C	25	12	39.4	59
25-16C	25	16	39.4	59
25-20C	25	20	39.4	59
32-6C	32	6	46	65
32-8C	32	8	46	65
32-10C	32	10	46	65
32-12C	32	12	46	65
32-16C	32	16	46	65
32-20C	32	20	46	65

NCMR

Collet for milling chucks - Morse taper adapter for milling chuck



NCMR type



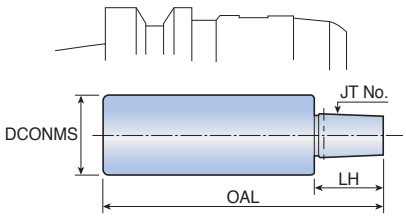
Designation		MT No.	Dimension (mm)		Application chuck
			DCONMS	OAL	
NCMR	**32-1**	1	32	60	NTMC 32
	32-2	2	32	72	NTMC 32
	32-3	3	32	90	NTMC 32
	42-1	1	42	60	NTMC 42
	42-2	2	42	72	NTMC 42
	42-3	3	42	90	NTMC 42
	42-4	4	42	113	NTMC 42

CJA

Collet for milling chucks - Jacobs taper adapter for milling chuck



CJA type



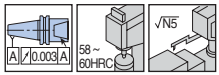
Designation		JT No.	Dimension (mm)			Application chuck
			DCONMS	OAL	LH	
CJA	**32-6**	6	32	118	28	NTMC 32
	42-6	6	42	128	28	NTMC 42

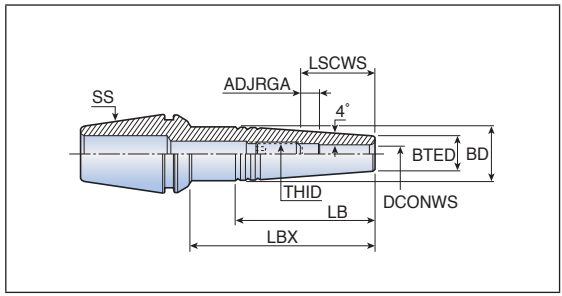
ER-SRK

T-SHRINK

T-SHRINK ER collets DIN6499







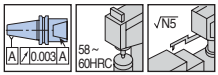
	Designation	Dimension (mm)									
		SS	DCONWS	BTED	BD	LBX	LB	ADJRGA	LSCWS	THID	Hex key
ER11	**SRK 3x10(1)**	ER11	3	7.6	8.5	10	-	-	10	-	-
	SRK 3x25(1)	ER11	3	7.6	8.5	25	-	-	10	-	-
	SRK 4x10(1)	ER11	4	7.6	8.5	10	-	-	12	-	-
	SRK 4x25(1)	ER11	4	7.6	8.5	25	-	-	12	-	-
ER20	**SRK 3x35**	ER20	3	10	13.5	35	24.5	6	16	M6	3.0
	SRK 3x60	ER20	3	10	13.5	60	24.5	6	16	M6	3.0
	SRK 4x35	ER20	4	10	13.5	35	24.5	6	18	M6	3.0
	SRK 4x60	ER20	4	10	13.5	60	24.5	6	18	M6	3.0
	SRK 5x35	ER20	5	10	13.5	35	24.5	6	21	M6	3.0
	SRK 5x60	ER20	5	10	13.5	60	24.5	6	21	M6	3.0
	SRK 6x35	ER20	6	11	13.5	35	25.5	6	24	M8	4.0
	SRK 6x60	ER20	6	11	13.5	60	29.5	6	24	M8	4.0
ER25	**SRK 3x35**	ER25	3	10	13.5	35	24.5	6	16	M6	3.0
	SRK 3x60	ER25	3	10	16.3	60	44.5	6	16	M6	3.0
	SRK 4x35	ER25	4	10	13.5	35	24.5	6	18	M6	3.0
	SRK 4x60	ER25	4	10	16.3	60	44.5	6	18	M6	3.0
	SRK 5x35	ER25	5	10	13.5	35	24.5	6	21	M6	3.0
	SRK 5x60	ER25	5	10	16.3	60	44.5	6	21	M6	3.0
	SRK 6x35	ER25	6	11	14.7	35	26.0	6	24	M8	4.0
	SRK 6x60	ER25	6	11	17.3	60	44.5	6	24	M8	4.0
	SRK 8x35	ER25	8	14	17.8	35	26.5	5	30	M10	5.0
	SRK 8x60	ER25	8	14	17.9	60	39.5	6	31	M10	5.0

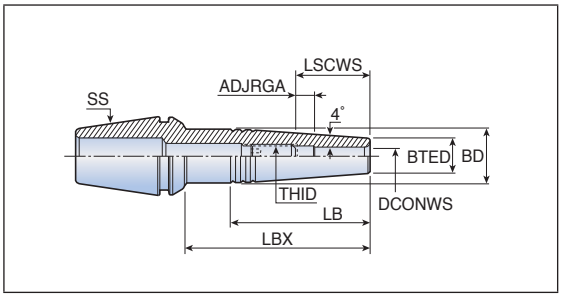
• (1) To be used only for TYPHOON spindles

ER-SRK

T-SHRINK ER collets DIN6499







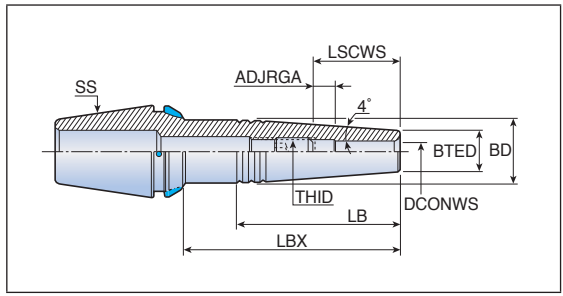
Designation		Dimension (mm)									
		SS	DCONWS	BTED	BD	LBX	LB	ADJRGA	LSCWS	THID	Hex key
ER32	**SRK 3x35**	ER32	3	10	13.5	35	22.5	6	16	M6	3.0
	SRK 3x60	ER32	3	10	16.3	60	44.5	6	16	M6	3.0
	SRK 3x85	ER32	3	10	19.8	85	70.0	6	16	M6	3.0
	SRK 4x35	ER32	4	10	13.5	35	23.5	6	18	M6	3.0
	SRK 4x60	ER32	4	10	16.3	60	44.5	6	18	M6	3.0
	SRK 4x85	ER32	4	10	19.8	85	70.0	6	18	M6	3.0
	SRK 5x35	ER32	5	10	13.5	35	24.5	6	21	M6	3.0
	SRK 5x60	ER32	5	10	16.3	60	44.5	6	21	M6	3.0
	SRK 5x85	ER32	5	10	19.8	85	70.0	6	21	M6	3.0
	SRK 6x35	ER32	6	11	14.7	35	25.5	6	24	M8	4.0
	SRK 6x60	ER32	6	11	17.3	60	45.0	6	24	M8	4.0
	SRK 6x85	ER32	6	11	20.8	85	69.5	8	26	M8	4.0
	SRK 8x35	ER32	8	14	18.9	35	33.0	6	31	M10	5.0
	SRK 8x60	ER32	8	14	20.4	60	45.0	6	31	M10	5.0
	SRK 8x85	ER32	8	14	23.2	85	65.0	6	31	M10	5.0
	SRK 10x35	ER32	10	16	20.8	35	34.0	5	35	M12	6.0
	SRK 10x60	ER32	10	16	22.4	60	44.5	6	36	M12	6.0
	SRK 10x85	ER32	10	16	23.0	85	49.5	6	36	M12	6.0
	SRK 12x35	ER32	12	20	24.0	35	28.0	-	-	-	-
	SRK 12x60	ER32	12	20	24.0	60	28.0	6	38	M14	6.0
	SRK 12x85	ER32	12	20	24.0	85	28.0	6	38	M14	6.0

ER-SRK-JET2

T-SHRINK

T-SHRINK ER collets DIN6499



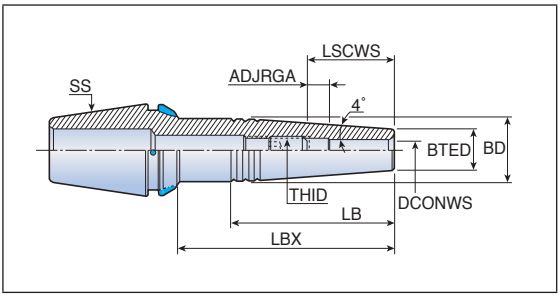


Designation		Dimension (mm)									
		SS	DCONWS	BTED	BD	LBX	LB	ADJRGA	LSCWS	THID	Hex key
ER20	**SRK 3x35 JET2**	ER20	3	10	13.5	35	24.5	6	16	M6	3.0
	SRK 4x35 JET2	ER20	4	10	13.5	35	24.5	6	18	M6	3.0
	SRK 5x35 JET2	ER20	5	10	13.5	35	24.5	6	21	M6	3.0
	SRK 6x35 JET2	ER20	6	11	13.5	35	25.5	6	24	M8	4.0
	SRK 6x60 JET2	ER20	6	11	13.5	60	29.5	6	24	M8	4.0
ER25	**SRK 3x35 JET2**	ER25	3	10	13.5	35	24.5	6	16	M6	3.0
	SRK 3x60 JET2	ER25	3	10	16.3	60	44.5	6	16	M6	3.0
	SRK 4x35 JET2	ER25	4	10	13.5	35	24.5	6	18	M6	3.0
	SRK 4x60 JET2	ER25	4	10	16.3	60	44.5	6	18	M6	3.0
	SRK 5x35 JET2	ER25	5	10	13.5	35	24.5	6	21	M6	3.0
	SRK 5x60 JET2	ER25	5	10	16.3	60	44.5	6	21	M6	3.0
	SRK 6x35 JET2	ER25	6	11	14.7	35	26.0	6	24	M8	4.0
	SRK 6x60 JET2	ER25	6	11	17.3	60	44.5	6	24	M8	4.0
	SRK 8x35 JET2	ER25	8	14	17.8	35	26.5	5	30	M10	5.0
	SRK 8x60 JET2	ER25	8	14	17.9	60	39.5	6	31	M10	5.0

ER-SRK-JET2

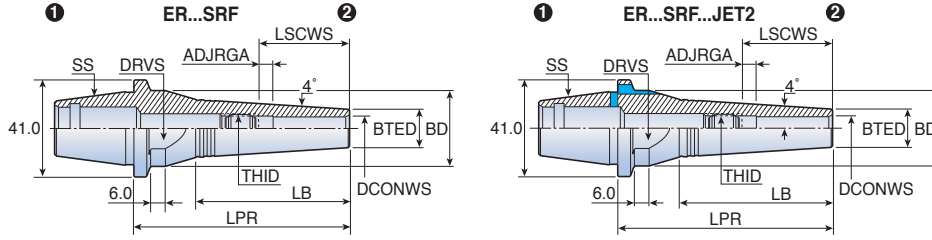
T-SHRINK ER collets DIN6499





Designation		Dimension (mm)									
		SS	DCONWS	BTED	BD	LBX	LB	ADJRGA	LSCWS	THID	Hex key
ER32	**SRK 3x35 JET2**	ER32	3	10	13.5	35	22.5	6	16	M6	3.0
	SRK 3x60 JET2	ER32	3	10	16.3	60	44.5	6	16	M6	3.0
	SRK 3x85 JET2	ER32	3	10	19.8	85	70.0	6	16	M6	3.0
	SRK 4x35 JET2	ER32	4	10	13.5	35	23.5	6	18	M6	3.0
	SRK 4x60 JET2	ER32	4	10	16.3	60	44.5	6	18	M6	3.0
	SRK 4x85 JET2	ER32	4	10	19.8	85	70.0	6	18	M6	3.0
	SRK 5x35 JET2	ER32	5	10	13.5	35	24.5	6	21	M6	3.0
	SRK 5x60 JET2	ER32	5	10	16.3	60	44.5	6	21	M6	3.0
	SRK 5x85 JET2	ER32	5	10	19.8	85	70.0	6	21	M6	3.0
	SRK 6x35 JET2	ER32	6	11	14.7	35	25.5	6	24	M8	4.0
	SRK 6x60 JET2	ER32	6	11	17.3	60	45.0	6	24	M8	4.0
	SRK 6x85 JET2	ER32	6	11	20.8	85	69.5	8	26	M8	4.0
	SRK 8x35 JET2	ER32	8	14	18.8	35	33.0	6	31	M10	5.0
	SRK 8x60 JET2	ER32	8	14	20.4	60	45.0	6	31	M10	5.0
	SRK 8x85 JET2	ER32	8	14	23.2	85	65.0	6	31	M10	5.0
	SRK 10x35 JET2	ER32	10	16	20.8	35	34.0	5	35	M12	6.0
	SRK 10x60 JET2	ER32	10	16	22.4	60	44.5	6	36	M12	6.0
	SRK 10x85 JET2	ER32	10	16	23.0	85	49.5	6	36	M12	6.0
	SRK 12x35 JET2	ER32	12	20	24.0	35	28.0	-	-	-	-
	SRK 12x60 JET2	ER32	12	20	24.0	60	28.0	6	38	M14	6.0
	SRK 12x85 JET2	ER32	12	20	24.0	85	28.0	6	38	M14	6.0

ER collets



❶ T-CLICK ❷ T-SHRINK

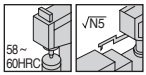
Designation		Dimension (mm)									
		SS	DCONWS	BTED	BD	LPR	LB	ADJRGA	LSCWS	THID	DRVS
ER32	**SRF 3x50**	32 SRF	3	10	32	50	31.0	6	16	M6	27
	SRF 3x85	32 SRF	3	10	32	85	60.5	6	16	M6	27
	SRF 4x50	32 SRF	4	10	32	50	31.0	6	18	M6	27
	SRF 4x85	32 SRF	4	10	32	85	60.5	6	18	M6	27
	SRF 5x50	32 SRF	5	10	32	50	31.0	6	21	M6	27
	SRF 5x85	32 SRF	5	10	32	85	60.5	6	21	M6	27
	SRF 6x50	32 SRF	6	11	32	50	31.0	6	24	M8	27
	SRF 6x85	32 SRF	6	11	32	85	60.5	6	24	M8	27
	SRF 8x50	32 SRF	8	14	32	50	33.0	6	31	M10	27
	SRF 8x85	32 SRF	8	14	32	85	60.5	6	31	M10	27
	SRF 10x50	32 SRF	10	16	32	50	35.0	5	35	M12	27
	SRF 10x85	32 SRF	10	16	32	85	60.5	6	36	M12	27
	SRF 12x50	32 SRF	12	20	32	50	35.0	5	37	M14	27
	SRF 12x85	32 SRF	12	20	32	85	50.0	6	38	M14	27
ER32	**SRF 3x50 JET2**	32 SRF	3	10	32	50	31.0	6	16	M6	27
	SRF 3x85 JET2	32 SRF	3	10	32	85	60.5	6	16	M6	27
	SRF 4x50 JET2	32 SRF	4	10	32	50	31.0	6	18	M6	27
	SRF 4x85 JET2	32 SRF	4	10	32	85	60.5	6	18	M6	27
	SRF 5x85 JET2	32 SRF	5	10	32	85	60.5	6	21	M6	27
	SRF 6x50 JET2	32 SRF	6	11	32	50	31.0	6	24	M8	27
	SRF 6x85 JET2	32 SRF	6	11	32	85	60.5	6	24	M8	27
	SRF 8x50 JET2	32 SRF	8	14	32	50	33.0	6	31	M10	27
	SRF 8x85 JET2	32 SRF	8	14	32	85	60.5	6	31	M10	27
	SRF 10x50 JET2	32 SRF	10	16	32	50	35.0	5	35	M12	27
	SRF 10x85 JET2	32 SRF	10	16	32	85	60.5	6	36	M12	27
	SRF 12x50 JET2	32 SRF	12	20	32	50	35.0	5	37	M14	27
	SRF 12x85 JET2	32 SRF	12	20	32	85	50.0	6	38	M14	27

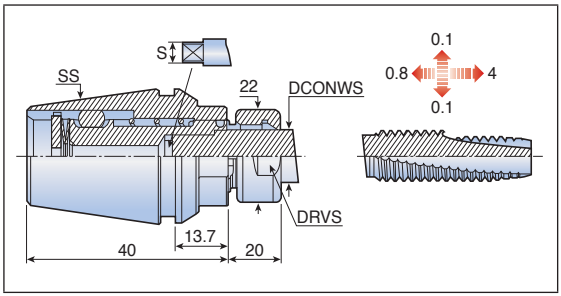
• Tightening torque: 24 kg × m

GTIN ER

GTIN ER collets







GTIN ER 32 - DIN 371 / 352

Designation		Dimension (mm)					
		SS	DCONWS	Tapmin	Tapmax	S	DRVS
GTIN ER32	DIN 2.50x2.10	ER32	2.5	M1	M1.8	2.1	20
	DIN 2.80x2.10	ER32	2.8	M2	M4	2.1	20
	DIN 3.50x2.70	ER32	3.5	M3	M5	2.7	20
	DIN 4.00x3.00	ER32	4.0	M3.5	M3.5	3.0	20
	DIN 4.50x3.40	ER32	4.5	M4	M6	3.4	20
	DIN 6.00x4.90	ER32	6.0	M5	M8	4.9	20
	DIN 7.00x5.50	ER32	7.0	M7	M10	5.5	20
	DIN 8.00x6.20	ER32	8.0	M8	M8	6.2	20
	DIN 9.00x7.00	ER32	9.0	M12	M12	7.0	20
	DIN 10.00x8.00	ER32	10.0	M10	M10	8.0	20
	DIN 11.00x9.00	ER32	11.0	M14	M14	9.0	20
	DIN 12.00x9.00	ER32	12.0	M16	M16	9.0	20

GTIN ER 32 - JIS

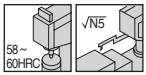
Designation		Dimension (mm)					
		SS	DCONWS	Tapmin	Tapmax	S	DRVS
GTIN ER32	JIS 3.00x2.50	ER32	3.0	M1	M2.6	2.5	20
	JIS 4.00x3.20	ER32	4.0	M3	M3.5	3.2	20
	JIS 5.00x4.00	ER32	5.0	M4	M4	4.0	20
	JIS 6.00x4.50	ER32	6.0	M6	M6	4.5	20
	JIS 6.20x5.00	ER32	6.2	M8	M8	5.0	20
	JIS 7.00x5.50	ER32	7.0	M10	M10	5.5	20
	JIS 8.50x6.50	ER32	8.5	M12	M12	6.5	20
	JIS 10.50x8.00	ER32	10.5	M14	M14	8.0	20
	JIS 12.50x10.00	ER32	12.5	M16	M16	10.0	20

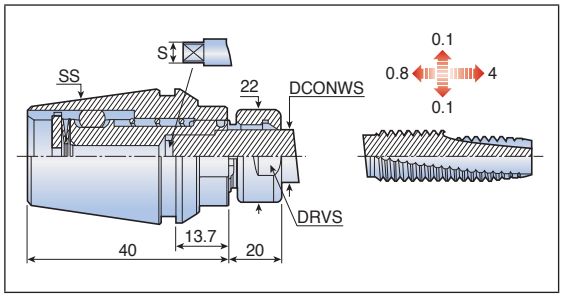
• No coolant should be induced through the tap collet, as it will cause malfunctioning of the mechanism

GTIN ER

GTIN ER collets







GTIN ER32 - ISO metric ISO 529/2283

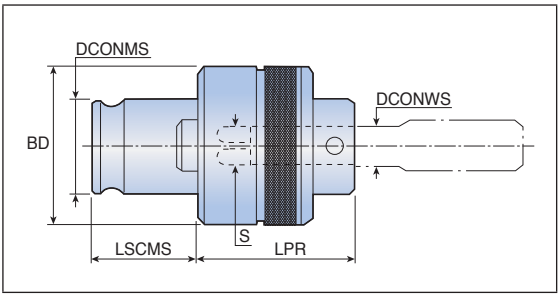
Designation		Dimension (mm)					
		SS	DCONWS	Tapmin	Tapmax	S	DRVS
GTIN ER32	**ISO 2.24x1.80**	ER32	2.24	M3	M3	1.80	20
	ISO 2.50x2.00	ER32	2.50	M3.5	M3.5	2.00	20
	ISO 2.80x2.24	ER32	2.80	M2.2	M2.5	2.24	20
	ISO 3.15x2.50	ER32	3.15	M3	M4	2.50	20
	ISO 3.55x2.80	ER32	3.55	M3.5	M4.5	2.80	20
	ISO 4.00x3.15	ER32	4.00	M4	M5	3.15	20
	ISO 4.50x3.55	ER32	4.50	M6	M6	3.55	20
	ISO 5.00x4.00	ER32	5.00	M5	M5	4.00	20
	ISO 5.60x4.50	ER32	5.60	UNC#12-24	UNC (ONLY)	4.50	20
	ISO 6.30x5.00	ER32	6.30	M6	M8	5.00	20
	ISO 7.10x5.60	ER32	7.10	UNC#3/8-16	UNC (ONLY)	5.60	20
	ISO 8.00x6.30	ER32	8.00	M8	M10	6.30	20
	ISO 9.00x7.10	ER32	9.00	M12	M12	7.10	20
	ISO 10.00x8.00	ER32	10.00	M10	M10	8.00	20
	ISO 11.20x9.00	ER32	11.20	M14	M14	9.00	20
	ISO 12.50x10.00	ER32	12.50	M16	M16	10.00	20

• No coolant should be induced through the tap collet, as it will cause malfunctioning of the mechanism

TA (For JIS)

Tap adapters





Designation	Dimension (mm)					
	DCONMS	DCONWS	BD	LPR	LSCMS	S
TA 1-M3	19	4.0	32	25	21.5	3.2
1-M4	19	5.0	32	25	21.5	4.0
1-M5	19	5.5	32	25	21.5	4.5
1-M6	19	6.0	32	25	21.5	4.5
1-M8	19	6.2	32	25	21.5	5.0
1-M10	19	7.0	32	25	21.5	5.5
1-M12	19	8.5	32	25	21.5	6.5
2-M6	31	6.0	50	33	35.5	4.5
2-M8	31	6.2	50	33	35.5	5.0
2-M10	31	7.0	50	33	35.5	5.5
2-M12	31	8.5	50	33	35.5	6.5
2-M14	31	10.5	50	33	35.5	8.0
2-M16	31	12.5	50	33	35.5	10.0
2-M18	31	14.0	50	33	35.5	11.0
2-M20	31	15.0	50	33	35.5	12.0
2-M22	31	17.0	50	33	35.5	13.0
2-M24	31	19.0	50	33	35.5	15.0
3-M18	48	14.0	72	45	55.5	11.0
3-M20	48	15.0	72	45	55.5	12.0
3-M22	48	17.0	72	45	55.5	13.0
3-M24	48	19.0	72	45	55.5	15.0
3-M27	48	20.0	72	45	55.5	15.0
3-M30	48	23.0	72	45	55.5	17.0
3-M33	48	25.0	72	45	55.5	19.0
3-M36	48	28.0	72	45	55.5	19.0
3-M38	48	28.0	72	45	55.5	21.0

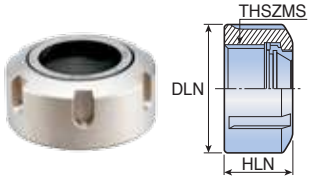
• Based on JIS standard tap

Accessories



NUT ER TOP

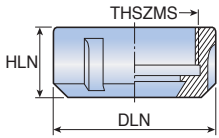
ER - Top™ clamping nuts



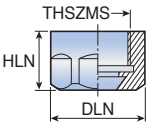
Designation	Dimension (mm)		
	DLN	HLN	THSZMS
NUT ER16 TOP	28	17	M22x1.5
ER20 TOP	34	19	M25x1.5
ER25 TOP	42	20	M32x1.5
ER32 TOP	50	22	M40x1.5
ER40 TOP	63	25	M50x1.5

NUT ER MINI/UM

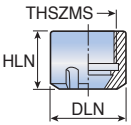
ER clamping nuts



ER 25, 32, 40, 50 UM



ER 16, 20 UM

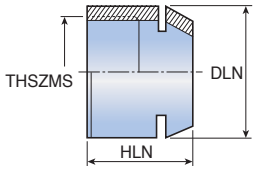


ER 11, 16, 20 MINI

Designation	Dimension (mm)		
	DLN	HLN	THSZMS
NUT ER11 MINI	16	10.8	M13x0.75
ER11 UM	19	11.3	M14x0.75
ER16 MINI	22	18.0	M19x1.0
ER16 UM	28	17.0	M22x1.5
ER20 MINI	28	19.0	M24x1.0
ER20 UM	34	19.0	M25x1.5
ER25 MINI	35	20.0	M30x1.5
ER25 UM	42	20.0	M32x1.5
ER32 UM	50	22.0	M40x1.5
ER40 UM	63	25.0	M50x1.5
ER50 UM	78	55.0	M64x2.0

NUT ER11 GHS

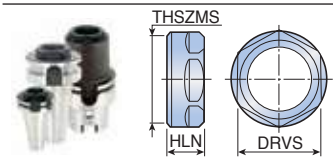
Tightening nuts



Designation	Dimension (mm)			
	DLN	HLN	THSZMS	Wrench
NUT ER11 GHS	16	11.5	M13x0.75	WRENCH ER11 SMS

NUT ER SHORT

T-SHORT nuts



Designation	Dimension (mm)		
	DRVS	HLN	THSZMS
NUT ER20 SHORT	22	10.7	M25x1.5
ER32 SHORT	36	15.0	M40x1.5
ER40 SHORT	46	16.0	M50x1.5

TSKN

TSK clamping nuts

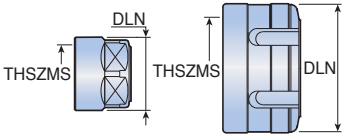


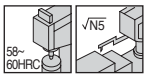
Fig.1 Fig.2

Designation	Dimension (mm)		Fig.
	DLN	THSZMS	
TSKN 6	20	M15x1.0	1
10	28	M21.5x1.0	1
16	40	M32x1.5	2
25	55	M45x1.5	2

PS SK-DIN

Pull studs DIN69872 with JIS63398 retention knob





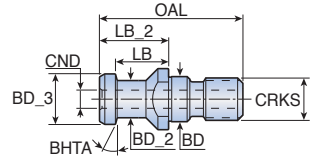


Fig.1

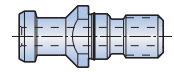


Fig.2

Designation	Dimension (mm)									Fig.
	CRKS	BD	BD_2	BD_3	CND	LB	LB_2	OAL	BHTA	
PS SK30 15° M12 DIN	M12	13	9.0	13.00	-	19.00	24.00	44.0	15	1
PS SK40 15° M16 DIN	M16	17	14.0	19.00	-	20.00	26.00	54.0	15	1
15° M16 DIN O	M16	17	14.0	19.00	-	20.00	26.00	54.0	15	2
15° M16 DIN B	M16	17	14.0	19.00	7.00	20.00	26.00	54.0	15	1
15° M16 DIN OB	M16	17	14.0	19.00	7.00	20.00	26.00	54.0	15	2
PS SK50 15° M24 DIN	M24	25	21.0	28.00	-	25.00	34.00	74.0	15	1
15° M24 DIN O	M24	25	21.0	28.00	-	25.00	34.00	74.0	15	2
15° M24 DIN B	M24	25	21.0	28.00	11.50	25.00	34.00	74.0	15	1

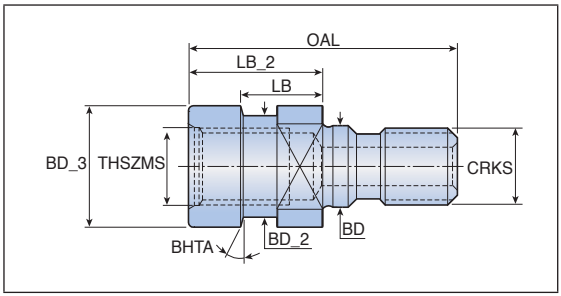
- Coolant holes only in items with a "B" suffix
- Fig. 2: With external O-ring

ADVANCE MACHINING
TaeguTec Industry 4.0

PS OTT BT/SK

Pull studs OTT system





Designation		Dimension (mm)								
		CRKS	THSZMS	BD	BD_2	BD_3	LB	LB_2	OAL	BHTA
PS OTT	**BT40 M16**	M16	M16	17	21.1	25.0	16.60	28	56	15
	BT50 M24	M24	M24	24	32.0	39.3	13.35	25	65	15
	SK40 M16	M16	M16	17	21.1	25.0	13.60	25	53	15

PS BT-JIS/MAZAK

Pull studs BT-JIS 63398 / ANSI-metric for MAZAK machine



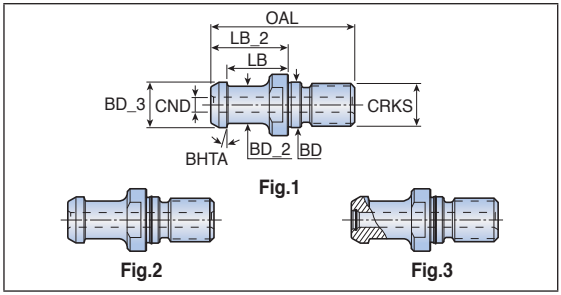


Fig.1

Fig.2

Fig.3

Designation	Dimension (mm)									Fig.
	CRKS	BD	BD_2	BD_3	CND	LB	LB_2	OAL	BHTA	
PS BT30 15° M12 JIS B	M12	13	8.00	12.00	4.0	18.40	23.4	43.0	15	1
BT40 15° M16 JIS B	M16	17	14.00	19.00	5.5	23.00	29.0	54.0	15	1
BT40 15° M16 JIS O B	M16	17	14.00	19.00	5.5	23.00	29.0	54.0	15	2
BT40 15° M16 JIS O B O	M16	17	14.00	19.00	5.5	23.00	29.0	54.0	15	3
BT50 15° M24 JIS B	M24	25	21.00	28.00	8.0	25.00	34.0	74.0	15	1
BT50 15° M24 JIS O B	M24	25	21.00	28.00	8.0	25.00	34.0	74.0	15	2
BT50 15° M24 JIS O B O	M24	25	21.00	28.00	8.0	25.00	34.0	74.0	15	3
BT40 45° M16 MAZAK B	M16	17	12.45	18.79	7.0	14.02	19.1	44.1	45	1
BT50 45° M24 MAZAK B	M24	25	20.83	28.95	8.0	17.58	25.2	65.2	45	1

- Fig. 1: Coolant holes only in items with a "B" suffix
- Fig. 2: With external O-ring and coolant hole
- Fig. 3: With external and internal O-rings and coolant hole

PS BT-MAS

Pull studs BT-MAS-metric



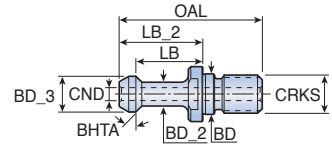


Fig.1

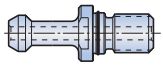


Fig.2

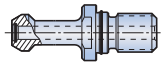


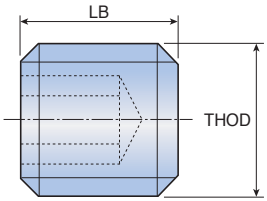
Fig.3

Designation		Dimension (mm)									Fig.
		CRKS	BD	BD_2	BD_3	CND	LB	LB_2	OAL	BHTA	
PS BT30	**45 M12 MAS1**	M12	12.5	7	11	-	18	23	43	45	1
	45 M12 MAS1 B	M12	12.5	7	11	3.0	18	23	43	45	1
	60 M12 MAS2	M12	12.5	7	11	-	18	23	43	30	1
PS BT40	**45 M16 MAS1**	M16	17.0	10	15	-	28	35	60	45	1
	45 M16 MAS1 B	M16	17.0	10	15	5.5	28	35	60	45	1
	60 M16 MAS2	M16	17.0	10	15	-	28	35	60	30	1
	60 M16 MAS2 B	M16	17.0	10	15	5.5	28	35	60	30	1
	90 M16 MAS3	M16	17.0	10	15	-	28	35	60	90	1
	90 M16 MAS3 B	M16	17.0	10	15	5.5	28	35	60	90	1
PS BT50	**45 M24 MAS1**	M24	25.0	17	23	-	35	45	85	45	1
	45 M24 MAS1 B	M24	25.0	17	23	6.0	35	45	85	45	1
	45 M24 MAS1 0 B	M24	25.0	17	23	6.0	35	45	85	45	2
	45 M24 MAS1 0 B 0	M24	25.0	17	23	6.0	35	45	85	45	3
	60 M24 MAS2	M24	25.0	17	23	-	35	45	85	30	1
	60 M24 MAS2 B	M24	25.0	17	23	6.0	35	45	85	30	1
	90 M24 MAS3	M24	25.0	17	23	-	35	45	85	90	1
	90 M24 MAS3 B	M24	25.0	17	23	6.0	35	45	85	90	1

- Fig. 1: Coolant holes only in items with a "B" suffix
- Fig. 2: With external O-ring and coolant hole
- Fig. 3: With external and internal O-rings and coolant hole

SR-DIN

Lock screw DIN1835 B/E for end mill holders



Designation	Dimension (mm)		
	THOD	LB	Used for shanks
SR M6x10 DIN 1835-B	M6	10	6
M8x10 DIN 1835-B	M8	10	8
M10x12 DIN 1835-B	M10	12	10
M12x16 DIN 1835-B	M12	16	12, 14
M14x16 DIN 1835-B	M14	16	16
M16x16 DIN 1835-B	M16	16	20
M18x2x20 DIN 1835-B	M18x2	20	25
M20x2x20 DIN 1835-B	M20x2	20	32, 40
M24x2x25 DIN 1835-B	M24x2	25	50

PRESET ER-JET

Preset screw with oil hole for ER collets

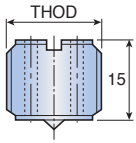


Fig.1

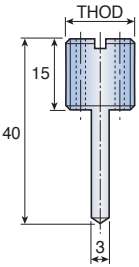
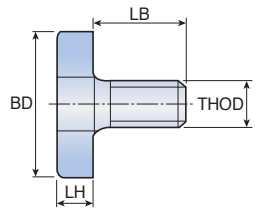


Fig.2

Designation		Dimension (mm)	Fig.
		THOD	
PRESET ER-JET	**8x1.25**	M8x1.25	1
	10x1.5	M10x1.5	1
	12x1.75	M12x1.75	1
	12x1.75L	M12x1.75	2
	16x2	M16x2	1
	16x2L	M16x2	2
	18x1.5	M18x1.5	1
	18x1.5L	M18x1.5	2
	22x1.5	M22x1.5	1
	22x1.5L	M22x1.5	2
	28x1.5	M28x1.5	1

M-CLAMP SCREW SEM

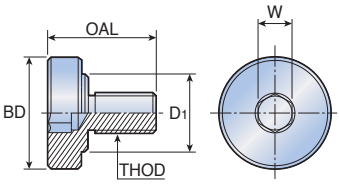
Lock screw DIN6367 for face mIII arbors



Designation	Dimension (mm)				
	S.M.C	THOD	BD	LH	LB
M8 CLAMP SCREW SEM 16	16	M8	20	6	16
M10 CLAMP SCREW SEM 22	22	M10	28	7	18
M12 CLAMP SCREW SEM 27	27	M12	35	8	22
M16 CLAMP SCREW SEM 32	32	M16	42	9	26
M20 CLAMP SCREW SEM 40	40	M20	52	10	30
M24 CLAMP SCREW SEM 50	50	M24	63	12	36

MBA M

Lock screw for FMA

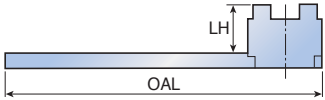


Designation		Dimension (mm)				
		THOD	BD	D1	OAL	W
MBA	**M8**	M8x1.25	20	15	24	6
	M10	M10x1.5	28	18	28	8
	M12	M12x1.75	33	23	32	10
	M16	M16x2.0	40	23	40	14
	M20	M20x2.5	50	27	50	17
	M24	M24x3.0	65	37	60	19

• Wrench for MBA screw: L-W □□

WRENCH M-SEMC

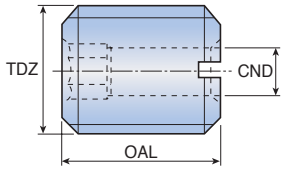
Wrench DIN6368 for combi shell end mill holders



Designation		Dimension (mm)			
		DRVS	FTDZ	LH	OAL
WRENCH	**M8 SEMC 16**	16	M8	20	180
	M10 SEMC 22	22	M10	25	200
	M12 SEMC 27	27	M12	32	225
	M16 SEMC 32	32	M16	36	250
	M20 SEMC 40	40	M20	40	280
	M24 SEMC 50	50	M24	50	315

PRESET SCREW

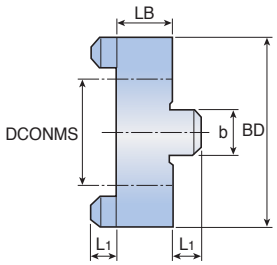
SRKIN thermal shrink collets



Designation		Dimension (mm)				
		TDZ	OAL	CND	Used for shanks	Hey key
PRESET SCREW	**M5x20 B**	M5	20	2.1	EM E / SRKIN	2.5
	M6x20 B	M6	20	2.5	EM E / SRKIN	3.0
	M8x20 B	M8	20	3.5	EM E / SRKIN	4.0
	M10x18 B	M10	18	4.5	EM E / SRKIN	5.0
	M12x18 B	M12	18	5.5	EM E / SRKIN	6.0
	M16x20 B	M16	20	7.5	EM E / SRKIN	6.0
	M16x25 B	M16	25	7.5	SRKIN	6.0
	M20x20 B	M20	20	6.0	EM E	6.0

D·RING SEMC

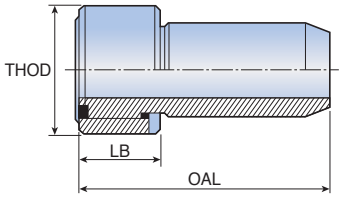
Driving ring DIN6366/1 for combi shell end mill holders



Designation	Dimension (mm)				
	DCONMS	BD	LB	b	L_1
16 D · RING SEMC	16	32	10	8	5.0
22 D · RING SEMC	22	40	12	10	5.6
27 D · RING SEMC	27	48	12	12	6.3
32 D · RING SEMC	32	58	14	14	7.0
40 D · RING SEMC	40	70	14	16	8.0
50 D · RING SEMC	50	90	16	18	9.0

COOLING TUBE HSK A

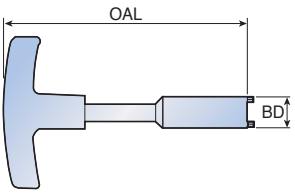
HSK A cooling tube



Designation		Dimension (mm)		
		OAL	LB	THOD
COOLING TUBE	**HSK A 50**	33.0	9.5	M16x1
	HSK A 63	36.5	11.5	M18x1
	HSK A 80	40.0	13.5	M20x1.5
	HSK A 100	44.0	15.5	M24x1.5

WRENCH COOL TUBE HSK A

HSK A cooling tube wrench

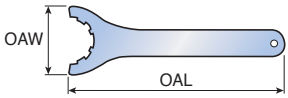


Designation		Dimension (mm)	
		BD	OAL
WRENCH COOL TUBE	**HSK A 50**	15.0	120
	HSK A 63	17.0	122
	HSK A 83	18.5	186
	HSK A 100	22.0	141

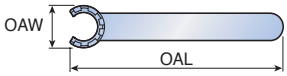
WRENCH ER-MINI/SHORT/CLICKIN

ER wrench

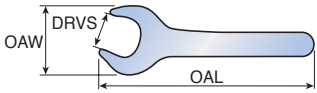
DIN6499



Wrench ER 25, 32, 40, 50



Wrench ER 11, 16, 20, 25 MINI

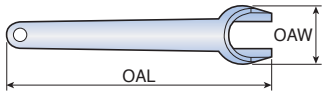


Wrench ER 11, 16, 20, SHORT, CLICKIN

Designation		Dimension (mm)		
		OAW	DRVS	OAL
WRENCH	**ER11 MINI**	16.8	-	95
	ER11	32.0	17	95
	ER16 MINI	22.5	-	117
	ER16	42.8	25	143
	ER20 MINI	28.0	-	128
	ER20	53.5	30	172
	ER25 MINI	29.0	-	120
	ER25	70.0	-	207
	ER32	78.0	-	255
	ER40	95.0	-	285
	ER50	110.0	-	350
	ER32 SHORT	75.0	36	303
	ER40 SHORT	94.0	46	378
	ER32 CLICKIN 32	67.0	32	273

WRENCH ER11 SMS

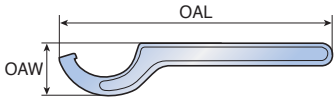
ER11 Tightening wrench



Designation		Dimension (mm)	
		OAW	OAL
WRENCH	**ER11 SMS**	22	100

SPANNER TMC

NTMC milling chuck wrench



Designation		Dimension (mm)	
		OAW	OAL
SPANNER	**TMC 20**	15.8	84.1
	TMC 25	18.1	94.3
	TMC 32	21.7	109.1
	TMC 42	23.2	108.0

TSKS

TSK slim chuck wrench

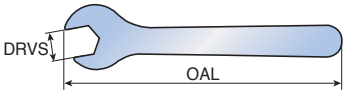


Fig.1

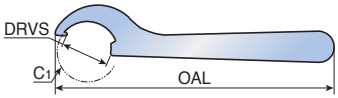
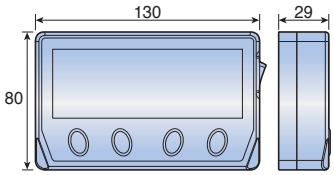


Fig.2

Designation	Dimension (mm)			Fig.
	DRVS	OAL	C_1	
TSKS - 6	18.0	174	-	1
10	25.4	177	-	1
16	39.0	225	40	2
25	52.0	228	55	2

TJS TSD DISPLAY

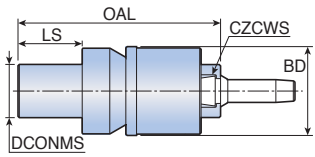
RPM speed display for TYPHOON high-speed spindles



Designation	Machines
TJS TSD DISPLAY	TTS spindles

IND ER11 TOOL ADAPTER

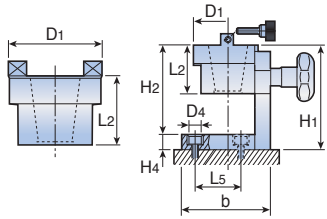
ER 11 shrink collet adapter for induction heating device



Designation	Dimension (mm)				
	CZCWS	BD	DCONMS	OAL	LS
IND ER11 TOOL ADAPTER	ER11	33.2	19.9	75.7	24

TOOL CLAMP-ROTARY/FIX

Tool clamp fixture - ISO, DIN69871, BT MAS-403

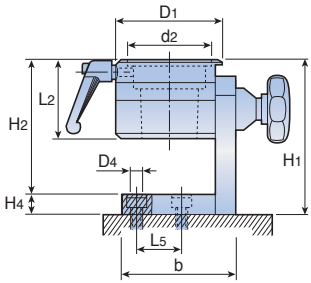


FIX ROTARY

Designation		Dimension (mm)								
		CSI	b	D_1	D_4	L_2	H_1	H_2	H_4	L_5
TOOL CLAMP	**30 ROTARY**	ROTARY	104	70	12.5	56	128	109	19	40
	40 ROTARY	ROTARY	104	82	12.5	56	128	109	19	40
	50 ROTARY	ROTARY	144	103	12.5	71	170	151	19	85
	30 FIX	FIX	-	82	-	58	-	-	-	-
	40 FIX	FIX	-	82	-	58	-	-	-	-
	50 FIX	FIX	-	103	-	71	-	-	-	-

MULTI CLAMP-A/C

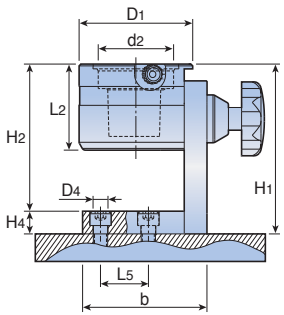
Tool clamp fixture rotary - For HSK shanks



Designation		Dimension (mm)									
		CSI	b	d_2	D_1	D_4	L_2	L_5	H_1	H_2	H_4
MULTI CLAMP	**50 A/C**	50	104	50	82.0	12.5	72	40	142	123	19
	63 A/C	63	104	63	95.0	12.5	72	40	142	123	19
	100 A/C	100	144	100	130.0	12.5	90	85	178	159	19

MULTI CLAMP C

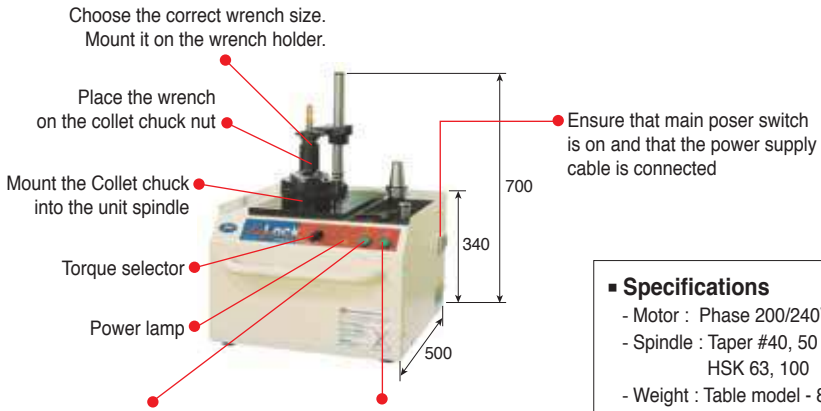
C-ADAPTER rotary clamp



Designation		Dimension (mm)									
		SS	b	d_2	D_1	D_4	L_2	L_5	H_1	H_2	H_4
MULTI CLAMP	**C6**	63	104	63	95	12.5	72	40	142	123	19

ADVANCE MACHINING
TaeguTec Industry 4.0

EASYLOCK T.C EU



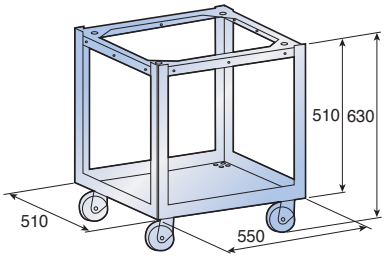
▪ Specifications

- Motor : Phase 200/240V, 50/60HZ(1HP)
- Spindle : Taper #40, 50
  HSK 63, 100
- Weight : Table model - 85kg
  Trolley (Optional) - 15kg

Note: Assemble the collet and cutting tools. By hand, place the nut onto the collet chuck.

Designation	TaeguTec No.	Accssories	
		Standard	Optional
EASYLOCK T.C EU	4651108	TP50 AD 40 EASY	EASY LOCK TROLLEY
		WRENCH ER16 EASY LOCK	TP40 AD 30 EASY
		WRENCH ER20 EASY LOCK	TP50 AD HSK 63 EASY
		WRENCH ER25 EASY LOCK	TP50 AD HSK 100 EASY
		WRENCH ER32 EASY LOCK	WRENCH ER50 EASY LOCK
		WRENCH ER40 EASY LOCK	WRENCH TG100 OPEN EASY

EASYLOCK TROLLEY



Designation	TaeguTec No.
EASYLOCK TROLLEY	4651109

IND SHRINKIN UNIT EUR

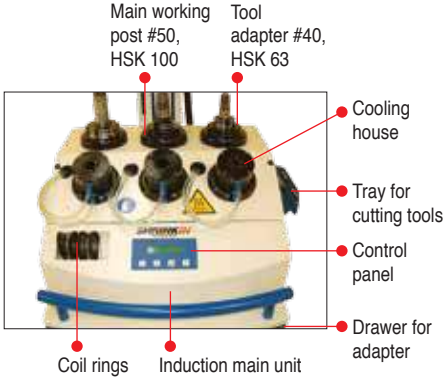
TSHRINK

Induction heating units





Technical specifications		
Clamping range	3-32mm	Carbide tool shank
Clamping range	6-32mm	
Main power supply	3×380 - 500V 50/60Hz	
Nominal power	13kW	
Nominal current	16 AMP	
Cooling unit power supply	220V 50Hz	
Nominal power	0.5kW	
Max. tool length	440mm (From gauge line)	
Max. dia. clamping chuck	52mm	
Effective induction field length	45mm	
Expansion time	5-12 seconds	
Cooling time	50-90 seconds	
Weight	150kg	
Overall dimensions	170×73×60cm	





INDUCTION starter unit
4654106 IND SHRINK START UNIT EUR
• One working post without cooling unit

TaeguTec No.	Designation	Includes
4652264	**IND SHRINKIN UNIT EUR**	Induction unit, cooling unit, trolley, three tool adapters

Cooling sleeves		Used for
IND COOLING COLLET	**6-8**	SRKIN
	10-12	SRKIN
	14-16	SRKIN
	18-20	SRKIN
	ER 3-5	SRK
	ER 6	SRK
	ER 8	SRK
	ER 10	SRK
	ER 12	SRK

Optional tool adapter for HSK
IND 32 HSK TOOL ADAPTER
40 HSK TOOL ADAPTER
50 HSK TOOL ADAPTER(1)
63 HSK TOOL ADAPTER
80 HSK TOOL ADAPTER

• (1) For taper #30

Technical Data

Sealed collet

■ Application

ER collets are used for applications requiring through coolant, as well as for standard cutting tools such as drills, boring bars, end mills, reamers, taps and special tools.
They provide an effective solution for accurate controled coolant flow.
Front sealing collets are available for advanced high speed machines with through coolant spindles/turrets.
They provide maximum performance, high cutting speeds, extended tool life and high quality surface finish.

■ Features

- A revolutionary high precision front sealing collet with 1.00mm collapsibility that has through coolant capability
- Increased machining efficiency
- Extended tool life
- Has powerful gripping and parallel clamping
- Front sealing provides protection from contamination
- Fast chip removal from work piece

■ Advantages

- High-pressure coolant supply up to 100 bar
- Eliminates coolant flow interference

■ Notes

- For maximum security and clamping power, the cutting tool shank must be inserted into the collet to a minimum depth of 2 x shank diameter
- In sealed collet JET2 the nozzle must be adjusted directly to the flute of the cutting tool
- Suitable for all shank standards

TaeguTec ER coolit sealed collet

■ Two types:

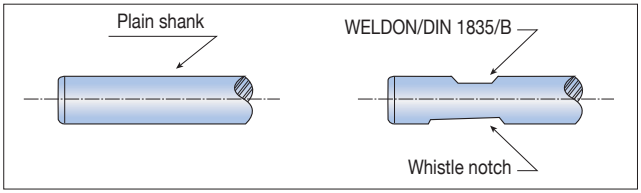


Sealed collet JET
For straight shank cutting tools with internal coolant supply



Sealed collet JET 2
With angular double nozzle.
Coolant flow is direct to the cutting edge
- For use with standard straight shank cutting tools (Without coolant hole)

Shank standards



ER - Top clamping nut DIN6499

■ Description

The friction ER Nut has a unique two piece exclusive friction mechanism combining radial and angular self-centering movements.

■ Features

- Unique two piece friction bearing
- Radial and angular float for better concentricity
- Powerful gripping force, 50-100% higher than standard ER nut due to the friction bearing mechanism
- Balanced for higher spindle speed due to unique extractor teeth design
- Compact design: General dimensions and size range are the same as the standard nut sealed design for use with sealed collets.

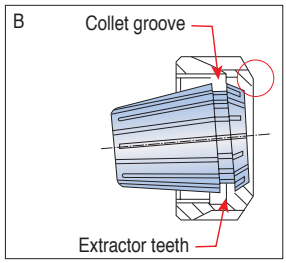
■ Operation

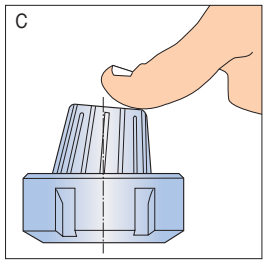
To insert collet: Always assemble the collet into the nut before mounting onto the collet chuck.

■ Inserting procedure

Insert the collet slantwise, fitting the two protruding extractor teeth (A) into the collet groove (B).
Place the two parts onto a clean and horizontal surface.
Press down with your thumb on the back end of the collet until it clicks into place (C).





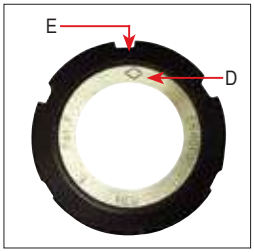


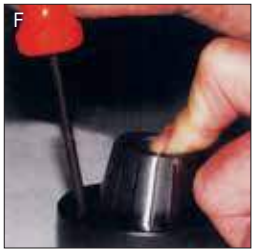
■ Important

Never insert the collet parallel to the extractor ring. This will chip or break the teeth of the extractor.
When unclamping the nut, the collet will self release from the chuck by means of the extractor teeth.

ER - Top clamping nut DIN6499

- Extracting procedure
  1. Align the diamond-shaped engraved logo which is on the silver ring (D) to any of the key slots (E) of the nut.
  2. Place the nut with the collet facing down on a clean and horizontal work surface.
  3. Insert a screwdriver vertically between the nut slots and the collet - on the reverse side of the diamond shaped engraved logo (D).
  4. Tilt the screwdriver outwards while helping the extraction by pushing the back of the collet in the opposite direction (F).





Note:

For maximum performance the clamping nut thread and collet taper must be cleaned and oiled before use.
Recommended clamping torque for standard ER & ER-Top clamping nut.

Nut type	Kg × m
ER-11	5
ER-11M	3
ER-16	7
ER-16M	4
ER-20	12
ER-20M	8
ER-25	20
ER-32	22
ER-40	25
ER-50	35

Important:

The torque is calculated to suit the maximum diameter capacity of each collet. The torque should be gradually reduced when used with a smaller shank size.

TSK slim collet chuck

■ Features & advantages
- Excellent accuracy & good gripping power by gentle taper angle (ER collet : 8º, TSK collet : 4º)
- Slim design for deep and cavity machining
- Suitable on high speed machining
- Variety of TSK collets (Normal & coolant type)
- General machining using drill & end mill

■ Application
- General machining using drill & end mill
- High speed machining for mold & die industry
- Accurate machining using reamer & end mill

■ How to assemble the collet with a nut



a. Assembly device
(Provided with the set)



b. Nut



c. Collet

❶ Insert the back end of the collet (c) into the assembly device (a)

❷ Insert the combined part (a+c) in the nut (b)

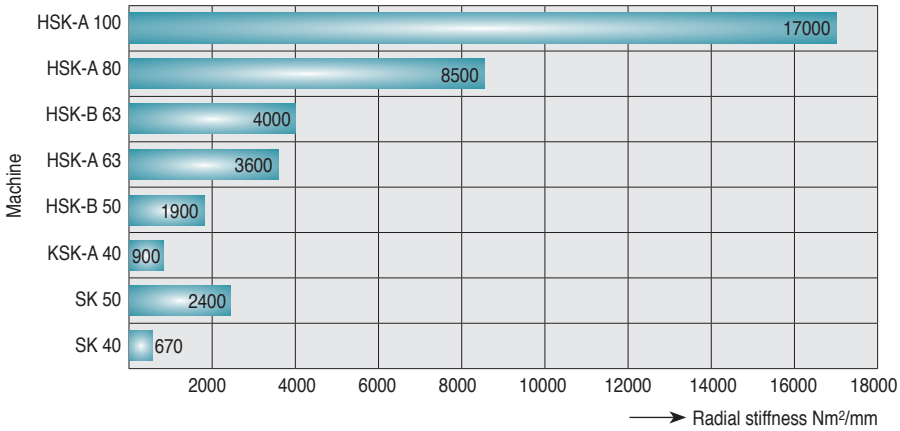
❸ Pluck out the assembly device (a) from the remaining part (b+c)



HSK (DIN69893) system

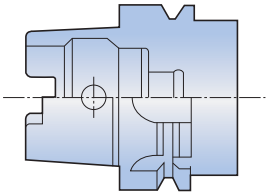
- Features
  - DIN standard
  - For high speed machining
  - Size: #32, 40, 50, 63, 100
  - For A.T.C. & manual machine
  - Double face contact
  - High stiffness

Radial stiffness of different machine tool interface

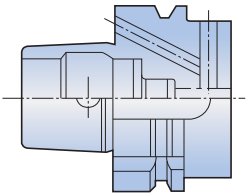


Type

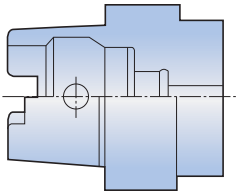
- A type: Automatic tool change



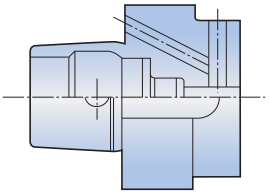
- B type: With coolant through face



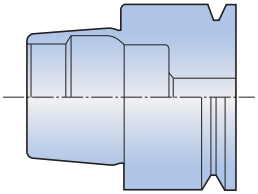
- C type: Manual clamp



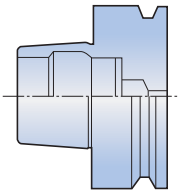
- D type: With coolant through face



- E type: Super high speed



- F type: Ultra high speed

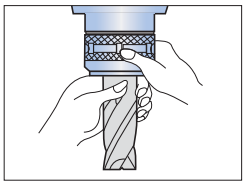


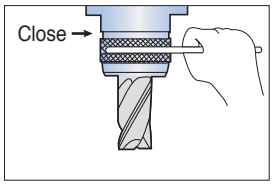
Milling chuck

■ Exceptional gripping power and simple operation

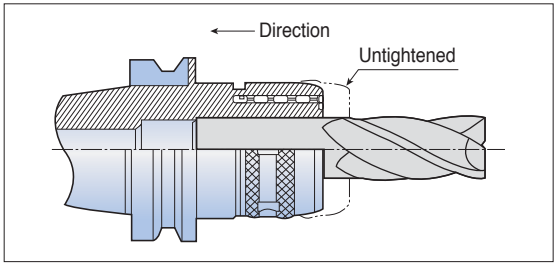
- Torque

Type	Torque (kgf•m)
NTMC 25	180
NTMC 32	360
NTMC 42	520



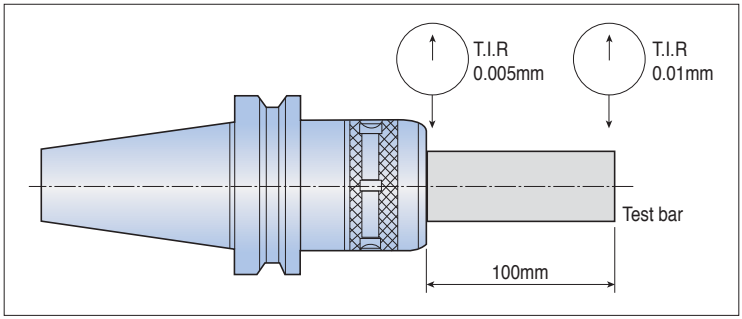


Tighten slightly when collar
is close to body (Avoid hammering)



■ Improved accuracy prolongs tool life

The accuracy and low runout has been achieved by utilizing precise grinding and spiral laser slitting to avoid damage and tool distortion.



Quick-change system



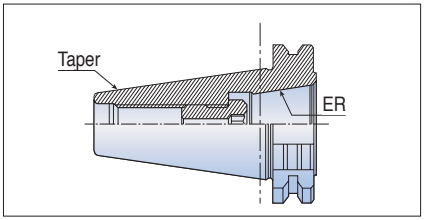
- DIN 69871
  HSK
  BT MAS 403

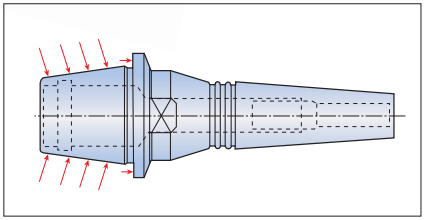
- T-CLICK advantages
- Taper and face contact
- Ideal for high speed machining
- High precision: Low run-out
- Excellent rigidity
- Quick and easy clamping

- Quick-change advantages
- Quick tool change: The taper shank and the holder connect in a quick half turn
- No thermal shock on holder taper
- Flexibility in diameter and length
- Eliminates the use of extension chuck
- No spare parts required
- T-CLICK blanks available to provide custom made tooling
- Shrink clamping for solid carbide tooling
  Tightening torque: 235N•m

G2.5	
20,000 RPM	







Hydraulic chuck

■ Features & advantages
- Consistent gripping force
- Excellent accuracy (Run-out : within 5㎛)
- Convenient and safe tool change using a clamping screw
- Can use THC straight collets (Normal & coolant type)

■ Application
- Accurate machining
  a) Fine milling, reaming, fine boring
- Drilling: Small diameter using carbide drill
  a) For Al or Cast iron

■ Operation
- Tool mounting
  a) Insert the tool shank between Lmax and Lmin (Fig 1.) and then, turn the clamping screw clockwise until it can no longer rotate.
- Tool releasing
  a) To release the tool from the hydraulic chuck, turn the clamping screw in a counter clock-wise direction approximately 5 or 6 evolutions and remove the tool shank.
- Notice
  a) Eliminate grease, coolant oil and any dirt from the internal bore of the hydraulic chuck and tool shank prior to mounting.
  b) Ensure the minimum chucking length (Lmin) is maintained. (see Fig 1. & Table 1.)
  c) Cylindrical tool shanks available in accordance with h6 tolerance (Table 2.) and Ra min =0.3㎛ (ground) and weldon shanks should be used in collet only.
  d) Remove the end tool from the hydraulic chuck when not in use for long periods of time.
  e) Do not turn the clamping screw prior to tool mounting in the hydraulic chuck.

* Please refer to the backface for information tables.

Figure 1. Tool structure

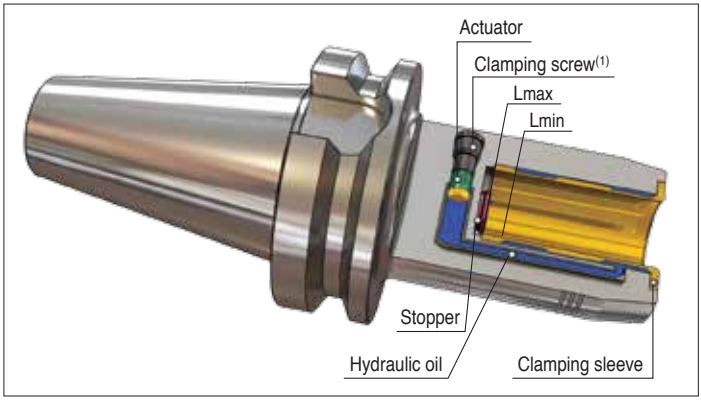


Table 1. Recommended minimum & maximum depth (L) of end tool insertion

Inner bore diameter Ø (mm)	Lmin (mm)	Lmax (mm)
6	27.5	37.5
8	27.5	37.5
10	32.5	42.5
12	37.5	47.5
14	37.5	47.5
16	42.5	52.5
20	42.5	52.5
25	51.0	61.0
32	55.0	65.0

Table 2. h6 tolerance range

Shank size Ø (mm)		h6 tolerance range (㎛)
	3	0
		-6
3	6	0
		-8
6	10	0
		-9
10	18	0
		-11
18	30	0
		-13
30	50	0
		-16

Table 3. Clamping torque

Inner bore diameter Ø (mm)	Clamping torque (N•m)
6	10
8	25
10	40
12	65
14	90
16	120
20	240
25	260
32	450

Thermal T-SHRINK chucking system



T-SHRINK chucking system

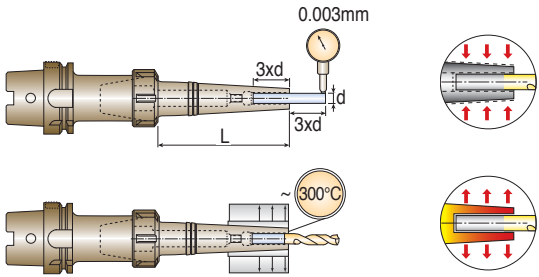
The thermal T-SHRINK ER collet chucking system is an enhancement to the existing popular ER system. The T-SHRINK collets utilize the thermal shrink phenomena for rigid clamping of solid carbide cutters. This new system provides higher torque, precision runout and better repeatability. The T-SHRINK collets with their slim design and different projection length allows the user to reach into deeper cavities and perform narrow milling applications. TaeguTec offers a complete system for T-SHRINK ER collets, including a uniquely designed heating unit with a portable heating handle. The unit is equipped with a high-tech temperature control for easy and practical use at the machining center or in the tool room.



■ For carbide tools only



L(mm)	Max. T.I.R
35	7㎛
60	9㎛
85	10㎛



GTI-Tap attachment

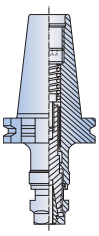
■ Description

Short tap chucks for ER collets

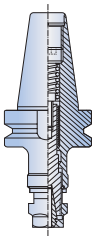


■ Application

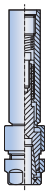
Axial-float/tension/compression type for CNC milling machines and lathes with reversing motors and rigid tapping



DIN 69871



BT MAS-403



Straight shank

■ Features

- Compensates for machine feed and tap pitch variance
- Floating mechanism compensates for misalignment between tap and workpiece
- Right and left-hands tapping

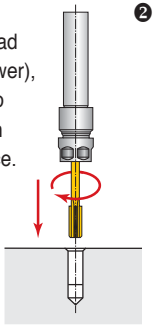
■ Advantages

- Practical and efficient tap holding by the ER spring collet without using drive jaw
- Compact design for minimal clearance applications
- Heavy-duty design for high torque drive ensures the same accuracy as the tap itself

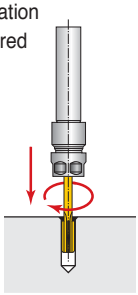
■ Operation

For through and blind hole tapping

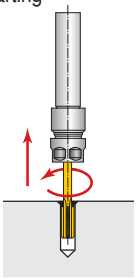
❶ Enter feed rate according to thread pitch (or 1-2% lower), and set spindle to starting point with 0.08mm clearance.



❷ Start spindle forward with right hand rotation until reaching desired depth.



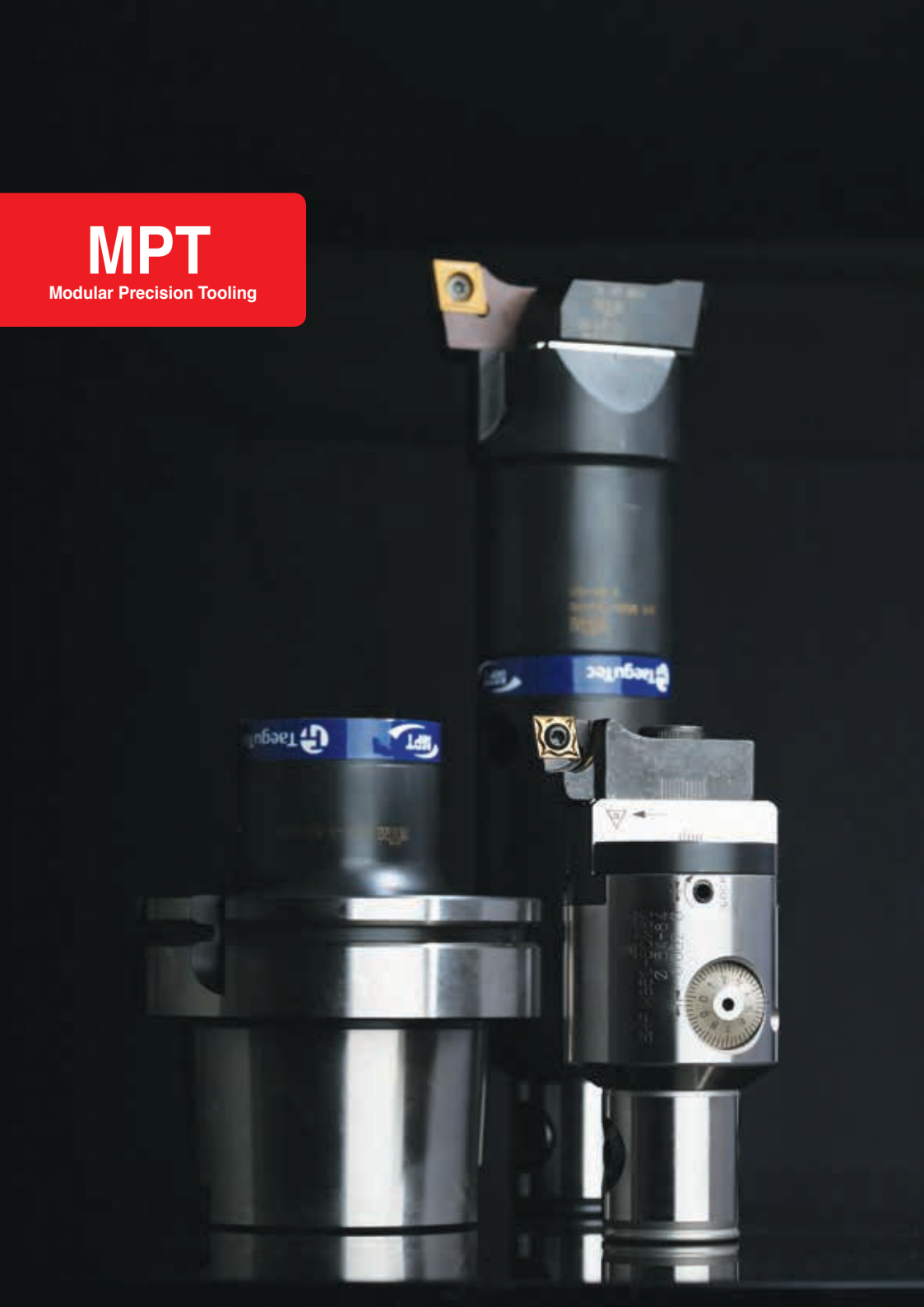
❸ Stop feed and rotation and reverse to starting point.



INDUSTRY4.0

MPT

Modular Precision Tooling



MPT

Modular Precision Tooling



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Guide to Icons



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› Spare Parts Page



› Toolholders Page



› Slide Page



› Cutting Condition Page



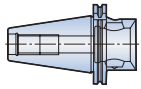
Fine Boring Heads	H38
Boring Inserts	H61
Kits	H65
Spare Parts	H71
Recommeded Cutting Conditions	H84
Technical Data	H92

Tool Selection Guide

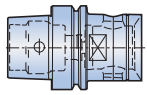
MPT system

Shanks

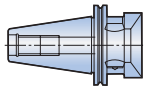
SKA/SKB H6-H7



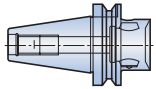
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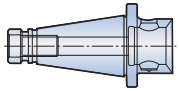
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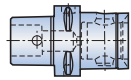
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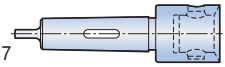
ISOM/ISO H13



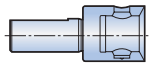
C MB H11



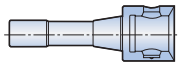
MTT H17



ST H14-H15



R8 H17

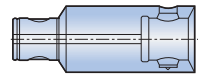


DIN2079 H18

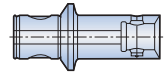


Extensions and reducers

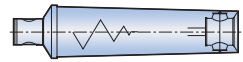
EX H19



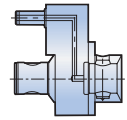
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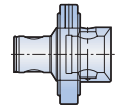
RE AVI H21



CHS H21



CHR H21

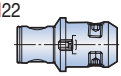


Tool Selection Guide

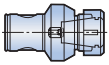
MPT system

Toolholders

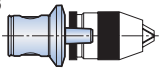
EMH H22



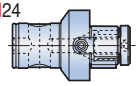
CC H23



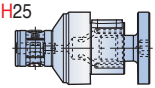
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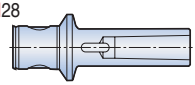
SMH H24



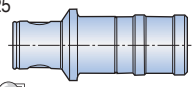
STUB H25



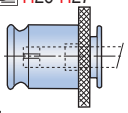
AMT H28



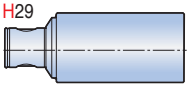
TP H25



TCS/TCC H26-H27



BLANK H29

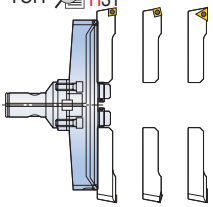


Rough boring heads

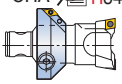
BHR H30



TCH H31

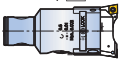


CHA H34



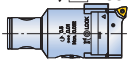
Combi boring heads

BHC H36

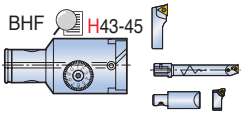


Fine boring heads

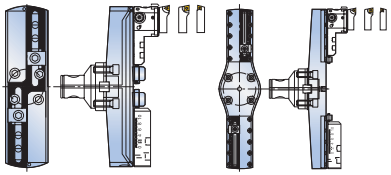
BHE H38-H39



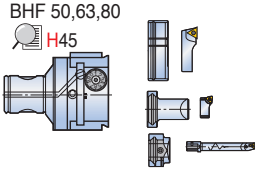
BHF H43-45



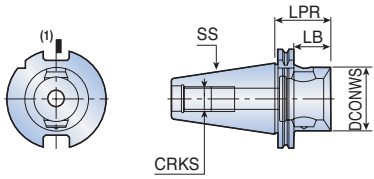
TCH H57



BHF 50,63,80 H45

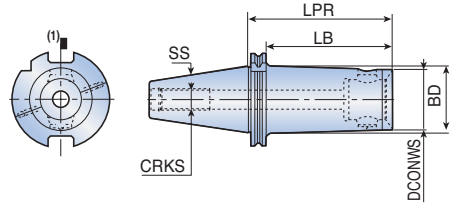


Taper shank with MB connection



DIN 69871- AD / ISO 7388/1 MB

Fig.1



DIN 69871 ADB MB

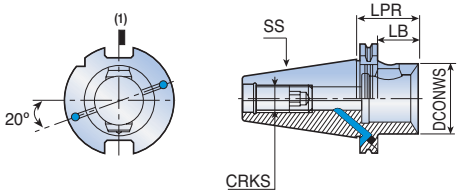
Fig.2

Designation	Dimension (mm)					CRKS	Kg	Fig.
	SS	DCONWS	LPR	LB	BD			
SKA 30-MB32	30	MB32	30	10.5	-	M12	0.6	1
30-MB50	30	MB50	60	41	-	M12	0.7	1
40-MB40	40	MB40	45	26	-	M16	0.9	1
40-MB50	40	MB50	48	29	-	M16	1.2	1
40-MB63	40	MB63	80	61	-	M16	1.6	1
45-MB50	45	MB50	48	29	-	M20	1.9	1
45-MB63	45	MB63	60	41	-	M20	0.2	1
45-MB80	45	MB80	66	47	-	M20	2.3	1
50-MB50	50	MB50	48	29	-	M24	2.8	1
50-MB63	50	MB63	56	37	-	M24	3.0	1
50-MB80	50	MB80	62	43	-	M24	3.6	1
40 MB40x120 A/B	40	MB40	120	101	44.50	M16	1.7	2
40 MB50x120 A/B	40	MB50	120	101	-	M16	2.8	2
50 MB50x120 A/B	50	MB50	120	101	60.00	M24	4.0	2
50 MB63x150 A/B	50	MB63	150	131	70.00	M24	2.8	2
50 MB80x180 A/B	50	MB80	180	161	-	M24	7.9	2
50 MB110x150	50	MB110	150	131	-	M24	8.2	2
60 MB80x65	60	MB80	65	46	-	M30	10.7	2
60 MB110x100	60	MB110	100	81	-	M30	10.5	2
60 MB110x200	60	MB110	200	181	-	M30	18.0	2

• (1)Cutting edge position

ADVANCE MACHINING TaeguTec Industry 4.0

Taper shank with MB connection



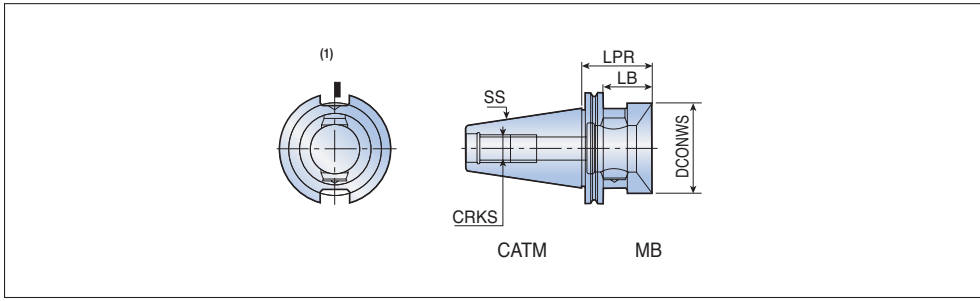
DIN 69871-FORM B MB

	Designation	Dimension (mm)				CRKS	Kg
		SS	DCONWS	LPR	LB		
SKB	**40-MB50**	40	MB50	48	29	M16	0.9
	40-MB63	40	MB63	80	61	M16	1.5
	45-MB50	45	MB50	48	29	M20	1.7
	45-MB63	45	MB63	60	41	M20	1.9
	50-MB50	50	MB50	48	29	M24	2.7
	50-MB63	50	MB63	56	37	M24	2.8
	50-MB80	50	MB80	62	43	M24	3.4

• (1)Cutting edge position

CATM-MB

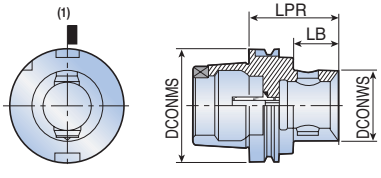
Taper shank with MB connection



Designation	Dimension (mm)				CRKS	Kg
	SS	DCONWS	LPR	LB		
CATM 40-MB50	40	MB50	66	47	M16	1.1
40-MB63	40	MB63	100	81	M16	1.9
45-MB50	45	MB50	48	29	M20	1.7
45-MB63	45	MB63	75	56	M20	2.1
45-MB80	45	MB80	80	61	M20	2.7
50-MB50	50	MB50	48	29	M24	2.9
50-MB63	50	MB63	56	37	M24	2.9
50-MB80	50	MB80	62	43	M24	3.2

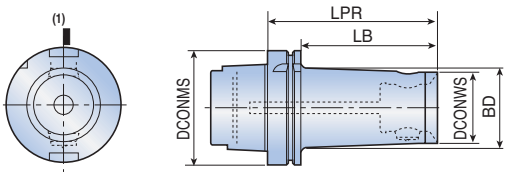
• (1)Cutting edge position

HSK shank with MB connection



HSK DIN 69893 MB

Fig.1



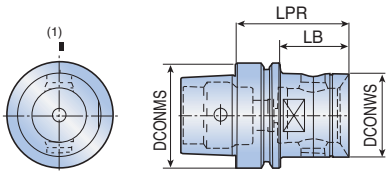
HSK DIN 69893-A MB

Fig.2

Designation	Dimension (mm)					Kg	Fig.
	DCONMS	DCONWS	LPR	LB	BD		
HSK A 50-MB50	50	MB50	66	40	-	0.6	1
63-MB40	63	MB40	60	34	-	1.0	1
63-MB40x120	63	MB40	120	94	46	1.6	2
63-MB50	63	MB50	66	40	-	0.9	1
63-MB50x120	63	MB50	120	94	-	1.1	2
63-MB63	63	MB63	75	49	-	1.1	1
80-MB50	80	MB50	70	44	-	1.5	1
80-MB63	80	MB63	80	54	-	1.8	1
80-MB80	80	MB80	86	60	-	2.1	1
100-MB50	100	MB50	72	43	-	2.0	1
100-MB50x120	100	MB50	120	91	60	4.9	2
100-MB63	100	MB63	82	53	-	2.7	1
100-MB63x150	100	MB63	150	121	70	4.7	2
100-MB80	100	MB80	88	59	-	3.0	1
100-MB80x180	100	MB80	180	151	-	7.3	2

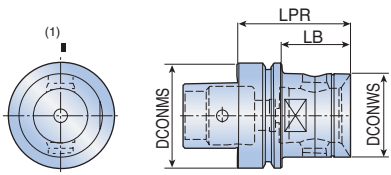
• (1)Cutting edge position

HSK shank with MB connection



HSK DIN 69893-E MB

Fig.1



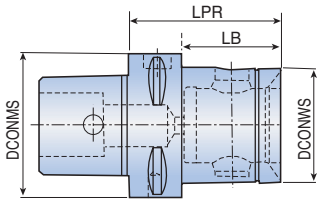
HSK DIN 69893-F MB

Fig.2

Designation	Dimension (mm)				Kg	Fig.
	DCONMS	DCONWS	LPR	LB		
HSK E 40 MB32	40	MB32	42	22	0.3	1
50 MB50	50	MB50	66	-	0.7	1
HSK F 63 MB50	63	MB50	65	39	1.0	2

• (1)Cutting edge position

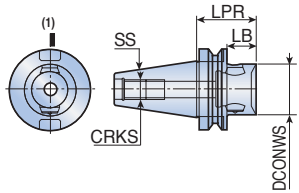
MB connection with C-adapter taper shank



Designation	Dimension (mm)				Kg
	DCONMS	DCONWS	LPR	LB	
C6 MB50x67	63	MB50	67	45	1.1
MB63x77	63	MB63	77	-	1.8
C8 MB63x70	80	MB63	70	39	2.3

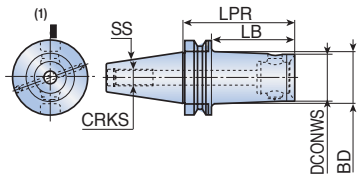
BT-MB/BTB-MB

BT form taper shanks with MB connection



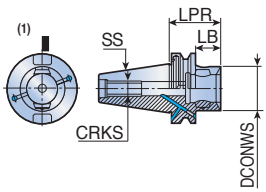
BT MAS-403 AD MB

Fig.1



BT MAS 403 form ADB MB

Fig.2



BT MAS 403 form B MB

Fig.3

Designation		Dimension (mm)					CRKS	Kg	Fig.
		SS	DCONWS	LPR	LB	BD			
BT	**30-MB32**	30	MB32	32	10.6	-	M12	0.5	1
	30-MB50	30	MB50	60	38.6	-	M12	0.7	1
	35-MB50	35	MB50	60	36	-	M12	0.8	1
	40-MB40	40	MB40	45	18	-	M16	0.6	1
	40-MB50	40	MB50	48	21	-	M16	0.9	1
	40-MB63	40	MB63	66	39	-	M16	1.2	1
	45-MB50	45	MB50	62	29	-	M20	1.7	1
	45-MB63	45	MB63	70	37	-	M20	2.3	1
	45-MB80	45	MB80	70	37	-	M20	2.7	1
	50-MB50	50	MB50	66	28	-	M24	3.5	1
	50-MB63	50	MB63	75	37	-	M24	3.7	1
	50-MB80	50	MB80	75	37	-	M24	4.0	1
	40-MB40x120 A/B	40	MB40	120	93	44.5	M16	0.9	2
	40-MB50x120 A/B	40	MB50	120	93	-	M16	1.9	2
	50-MB50x120 A/B	50	MB50	120	82	60	M24	4.2	2
	50-MB63x150 A/B	50	MB63	150	112	70	M24	5.8	2
	50-MB80x180 A/B	50	MB80	180	142	-	M24	7.5	2
	50-MB110x140	50	MB110	140	102	-	M24	6.8	2
	60-MB110x110	60	MB110	110	63	-	M30	11.5	2
	60-MB110x200	60	MB110	200	152	-	M30	18.1	2
BTB	**40-MB50**	40	MB50	48	21	-	M16	0.9	3
	40-MB63	40	MB63	66	39	-	M16	1.2	3
	50-MB50x66	50	MB50	66	28	-	M24	3.5	3
	50-MB63x75	50	MB63	75	37	-	M24	3.7	3
	50-MB80	50	MB80	75	37	-	M24	4.0	3

• (1)Cutting edge position

ISO Taper shank with MB connection

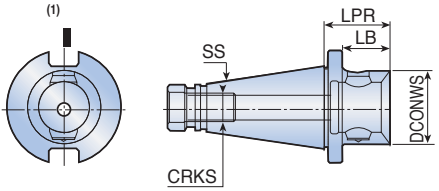


Fig.1

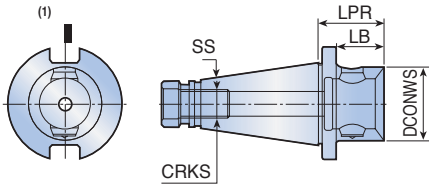


Fig.2

Designation		Dimension (mm)				CRKS	Kg	Fig.
		SS	DCONWS	LPR	LB			
ISOM	**30-MB50**	30	MB50	58	-	M12	0.6	1
	40-MB50	40	MB50	48	36	M16	0.9	1
	40-MB63	40	MB63	60	-	M16	1.2	1
	45-MB50	45	MB50	48	33	M20	1.6	1
	45-MB63	45	MB63	60	45	M20	1.9	1
	45-MB80	45	MB80	66	-	M20	2.2	1
	50-MB50	50	MB50	48	33	M24	2.6	1
	50-MB63	50	MB63	56	41	M24	2.7	1
	50-MB80	50	MB80	60	45	M24	3.2	1
ISO	**40-MB50**	40	MB50	48	36	UNC 5/8"-11	0.9	2
	40-MB63	40	MB63	60	-	UNC 5/8"-11	1.2	2
	50-MB50	50	MB50	48	33	UNC 1"-8	2.6	2
	50-MB63	50	MB63	56	41	UNC 1"-8	2.7	2
	50-MB80	50	MB80	60	45	UNC 1"-8	3.2	2

• (1)Cutting edge position

Straight shanks with MB connection

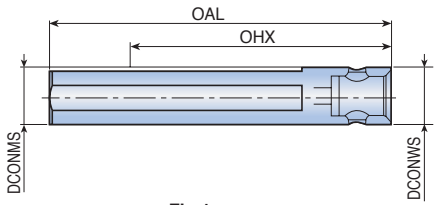


Fig.1

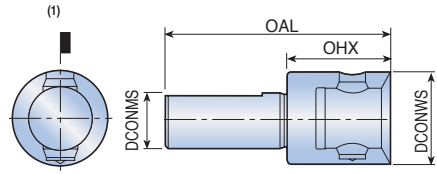


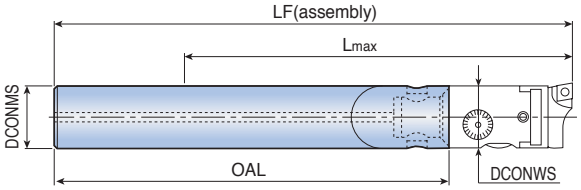
Fig.2

Designation	Dimension (mm)				Kg	Fig.
	DCONMS	DCONWS	OAL	OHX		
ST 16-MB16	16	MB16	100	66	0.2	1
20-MB20	20	MB20	125	85	0.3	1
25-MB32	25	MB32	100	35	0.7	2
32-MB50	32	MB50	140	60	1.0	2

• (1)Cutting edge position

ST MB-E

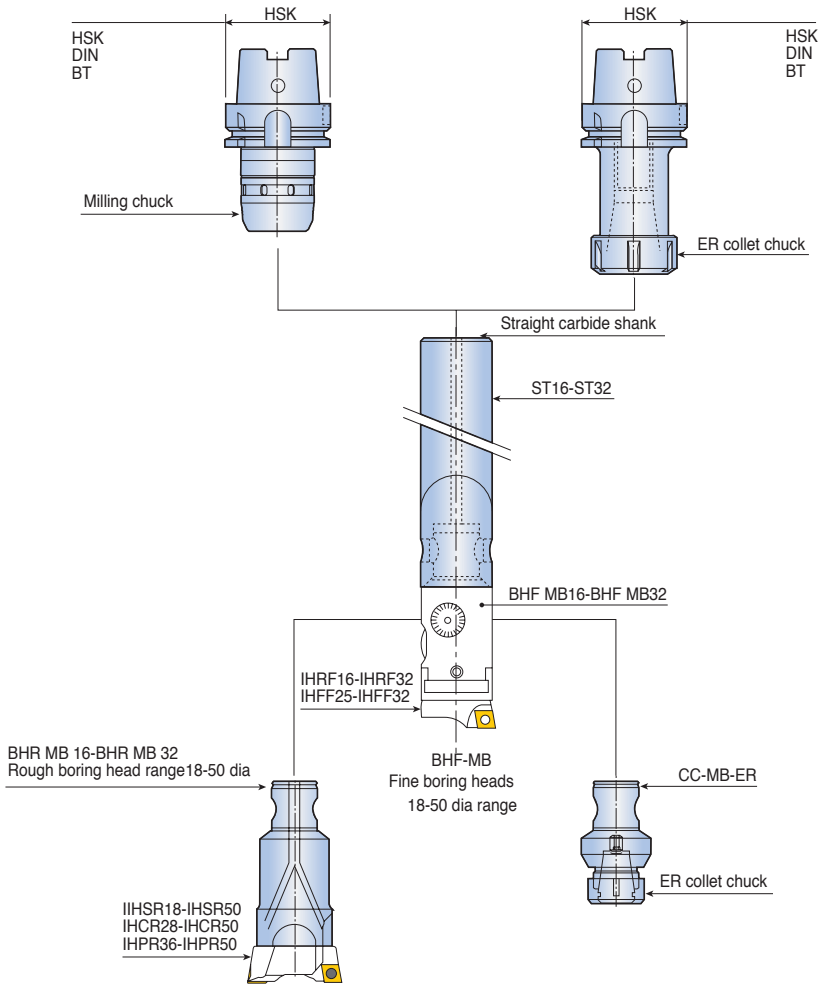
Straight carbide shanks with MB connection



Designation	Dimension (mm)					Kg
	DCONMS	DCONWS	OAL	LF	Lmax	
ST16 MB16x110E	16	MB16	110	144	100	0.3
MB16x140E	16	MB16	140	174	125	0.4
MB16x170E	16	MB16	170	204	160	0.5
ST20 MB20x135E	20	MB20	135	175	125	0.6
MB20x170E	20	MB20	170	210	160	0.8
MB20x210E	20	MB20	210	250	200	0.9
ST25 MB25x160E	25	MB25	160	210	160	1.0
MB25x205E	25	MB25	205	255	200	1.3
MB25x255E	25	MB25	255	305	250	1.6
ST32 MB32x195E	32	MB32	195	258	200	2.1
MB32x250E	32	MB32	250	313	250	2.8
MB32x315E	32	MB32	315	378	320	3.5

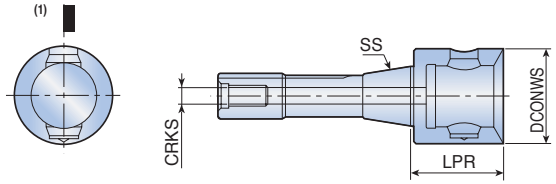
ST-MB straight carbide shank with MB connection assembly options

ST16-ST32 MB16-MB32
Diameter range: 18-50 mm



R8 MB50

Bridgeport shanks with MB connection

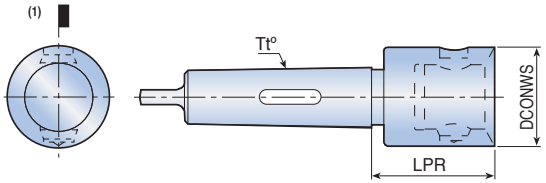


Designation	Dimension (mm)			CRKS	Kg
	SS	DCONWS	LPR		
R8 MB50	R8	MB50	50	UNF 7/16-20	0.8

• (1)Cutting edge position

MTT 5-MB63

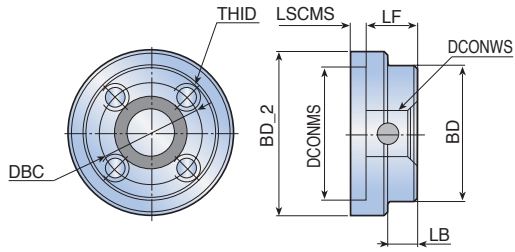
Morse taper shanks with MB connection



Designation	Dimension (mm)			Kg
	Tº	DCONWS	LPR	
MTT 5- MB63	MT5	MB63	65	2.1

• (1)Cutting edge position

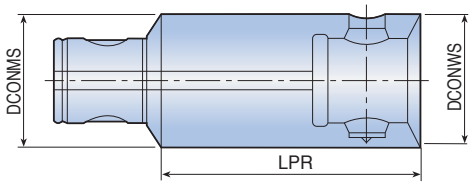
Connecting plates



Designation		Dimension (mm)									Kg
		DCONWS	LF	LSCMS	LB	BD	BD_2	DCONMS	DBC	THID	
DIN 2079	**MB50 40**	MB50	35	10	21	90	110	88.89	66.7	M12	1.8
	MB63 40	MB63	45	10	31	90	110	88.89	66.7	M12	2.0
	MB63 50	MB63	45	12	31	135	150	128.57	101.6	M16	5.4
	MB80 50	MB80	45	12	31	135	150	128.57	101.6	M16	5.3

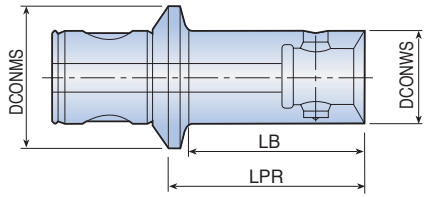
- A standard connecting plate that can be assembled easily on most CNC spindle machines with a DIN 2079 interface. This connection plate enables the use of MPT components with the MB connection by using any standard adapter with four screws. It is fixed directly on the machine spindle.

Extensions for MB connection



Designation	Dimension (mm)			Kg
	DCONMS	DCONWS	LPR	
EX 14x25-MB14	MB14	MB14	25	0.2
16x25-MB16	MB16	MB16	25	0.4
20x32-MB20	MB20	MB20	32	0.7
25x25-MB25	MB25	MB25	25	0.9
25x40-MB25	MB25	MB25	40	0.2
32x32-MB32	MB32	MB32	32	0.2
32x50-MB32	MB32	MB32	50	0.3
40x40-MB40	MB40	MB40	40	0.4
40x63-MB40	MB40	MB40	63	0.6
50x50-MB50	MB50	MB50	50	0.7
50x80-MB50	MB50	MB50	80	1.1
50x100-MB50	MB50	MB50	100	1.5
63x63-MB63	MB63	MB63	63	1.4
63x100-MB63	MB63	MB63	100	2.2
63x125-MB63	MB63	MB63	125	2.9
80x80-MB80	MB80	MB80	80	3.0
80x125-MB80	MB80	MB80	125	4.6
80x160-MB80	MB80	MB80	160	6.1
110x140-MB110	MB110	MB110	140	10.4
110x200-MB110	MB110	MB110	200	14.6

Reducers for MB connection



Designation		Dimension (mm)				Kg
		DCONMS	DCONWS	LPR	LB	
RE	MB16-MB14x24	MB16	MB14	24	19.5	0.3
	MB20-MB14x19	MB20	MB14	19	13.5	0.4
	MB20-MB16x20	MB20	MB16	20	16	0.5
	MB25-MB14x19	MB25	MB14	19	13.5	0.6
	MB25-MB16x20	MB25	MB16	20	15	0.8
	MB25-MB20x25	MB25	MB20	25	20	0.9
	MB32-MB14x25	MB32	MB14	25	17	1.0
	MB32-MB16x24	MB32	MB16	24	18	1.3
	MB32-MB20x25	MB32	MB20	25	20	1.6
	MB32-MB25x28	MB32	MB25	28	23	2.1
	MB40-MB14x23	MB40	MB14	23	16	2.8
	MB40-MB16x24	MB40	MB16	24	17	3.5
	MB40-MB20x26	MB40	MB20	26	20	0.4
	MB40-MB25x28	MB40	MB25	28	22	0.5
	MB40-MB32x32	MB40	MB32	32	27	0.6
	MB50-MB14x23	MB50	MB14	23	14.5	0.8
	MB50-MB14x39	MB50	MB14	39	30.5	0.9
	MB50-MB16x24	MB50	MB16	24	15	1.0
	MB50-MB16x40	MB50	MB16	40	31	1.3
	MB50-MB16x74	MB50	MB16	74	65	1.6
	MB50-MB20x26	MB50	MB20	26	18	3.5
	MB50-MB20x70	MB50	MB20	70	62	0.4
	MB50-MB20x93	MB50	MB20	93	85	0.5
	MB50-MB25x28	MB50	MB25	28	21	0.6
	MB50-MB25x87	MB50	MB25	87	80	0.8
	MB50-MB25x117	MB50	MB25	117	110	3.5
	MB50-MB32x32	MB50	MB32	32	25	0.4
	MB50-MB32x87	MB50	MB32	87	80	0.5
	MB50-MB32x144	MB50	MB32	144	137	0.6
	MB50-MB40x36	MB50	MB40	36	30	0.8
	MB50-MB40x87	MB50	MB40	87	80	0.9
	MB50-MB40x176	MB50	MB40	176	170	1.0
	MB63-MB50x40	MB63	MB50	40	34	1.3
	MB80-MB50x45	MB80	MB50	45	36	1.6
	MB80-MB63x60	MB80	MB63	60	52	1.6
	MB110-MB80x70	MB110	MB80	70	52	6.0

RE MB-AVI

Extensions and Reducers

Vibration dampening reducers

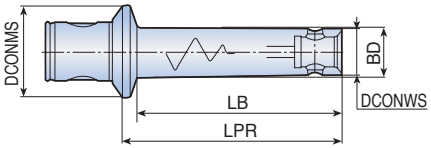


Fig.1

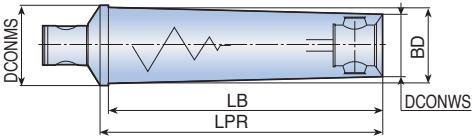


Fig.2

Designation	Dimension (mm)					Kg	Fig.
	DCONMS	DCONWS	BD	LPR	LB		
RE MB50-MB16x74-AVI	MB50	MB16	17.5	74	65	0.4	1
MB50-MB20x93-AVI	MB50	MB20	21.5	93	85	0.5	1
MB50-MB25x117-AVI	MB50	MB25	27	117	110	0.8	1
MB50-MB32x144-AVI	MB50	MB32	35	144	138	1.4	1
MB50-MB40x176-AVI	MB50	MB40	47	176	170	2.5	1
MB63-MB50x220-AVI	MB63	MB50	60	220	214	5.6	1
MB80-MB63x280-AVI	MB80	MB63	77	280	272	10.6	2

CHS MB-R/CHR MB

Extensions and Reducers

Coolant extensions for MB connection

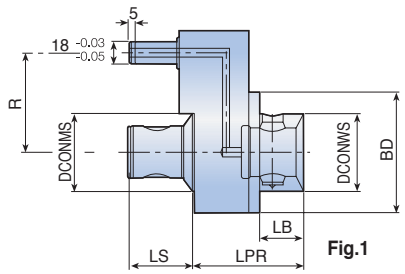


Fig.1

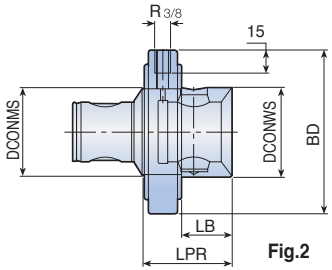


Fig.2

Designation	Dimension (mm)									Kg	Fig.
	DCONMS	DCONWS	R	BD	LPR	LB	LS	RPM Max	Bar		
CHS MB50-R65	MB50	MB50	65	80	72	28.5	43	7000	10	1.9	1
MB50-R80	MB50	MB50	80	80	72	28.5	43	7000	10	2.5	1
MB63-R80	MB63	MB63	80	100	88	37.0	51	5600	10	5.0	1
CHR MB63	MB63	MB63	-	115	63	35	-	3500	10	5.0	2

- Important: Start coolant flow prior to rotating the spindle to avoid damage of the O rings.
- Use with stop block. (not included)

Weldon holder with MB connection

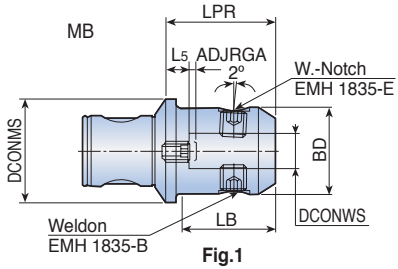


Fig.1

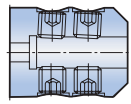


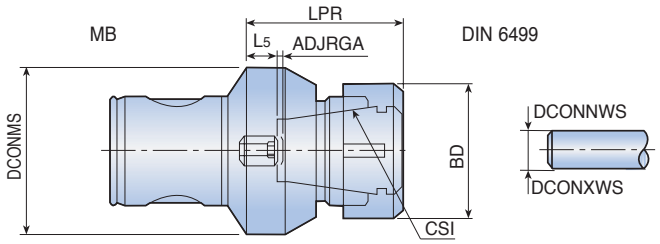
Fig.2

	Designation	Dimension (mm)							Kg	Fig.
		DCONMS	DCONWS	BD	LPR	LB	L5	ADJRGA		
EMH	**MB50-8**	MB50	8	28	44	33	7	2	0.5	1
	MB50-10	MB50	10	35	52	42	11	3	0.7	1
	MB50-12	MB50	12	42	57	48	11	3	0.8	1
	MB50-14	MB50	14	42	57	48	11	3	0.8	1
	MB50-16	MB50	16	48	67	61	17	4	1.1	1
	MB50-20	MB50	20	51	67	-	16	4	1.2	1
	MB63-16	MB63	16	48	64	53	14	4	1.4	1
	MB63-20	MB63	20	52	66	56	14	4	1.5	1
	MB63-25	MB63	25	64	74	-	16	4	2.1	2
	MB63-32	MB63	32	72	76	-	14	4	2.5	2
	MB80-40	MB80	40	80	83	-	12	4	3.2	2

Spare Parts
H71-H83

CC MB-ER

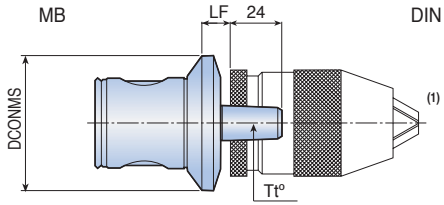
ER Collet chucks with MB connection



Designation	Dimension (mm)							Kg
	DCONMS	CSI	DCONNWS	DCONXWS	BD	LPR	ADJRGA	
CC **MB16 ER11M**	MB16	ER11	0.5	7.0	16	25	2.5	0.03
MB20 ER16M	MB20	ER16	0.5	10.0	22	32	1.0	0.06
MB25 ER20M	MB25	ER20	1.0	13.0	28	40	2.5	0.15
MB32 ER25M	MB32	ER25	1.0	16.0	35	42	1.5	0.25
MB40 ER25	MB40	ER25	1.0	16.0	42	45	5.0	0.25
MB50 ER25	MB50	ER25	1.0	16.0	42	48	7.0	0.70
MB50 ER32	MB50	ER32	2.0	20.0	50	59	7.0	1.00
MB63 ER32	MB63	ER32	2.0	20.0	50	59	12	1.30
MB63 ER40	MB63	ER40	3.0	26.0	63	64	12	1.50

DC MB

Drill chucks with MB connection



Designation	Dimension (mm)			Kg
	DCONMS	Tt°	LF	
DC **MB50 B16**	MB50	B16	10.0	0.4
MB63 B16	MB63	B16	13.5	0.8

Spare Parts
H71-H83

• (1)Without drill chuck

Shell mill holders with MB connection

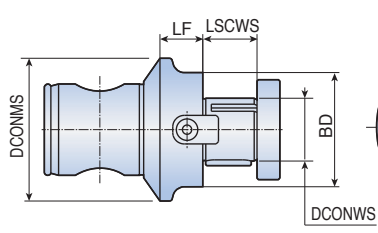


Fig.1

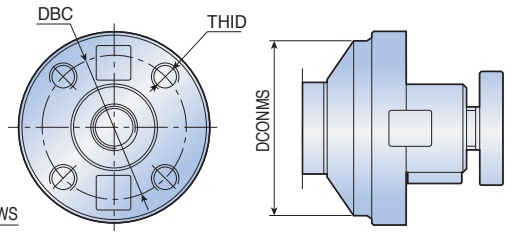


Fig.2

Designation		Dimension (mm)								Kg
		DCONMS	DCONWS	BD	DBC	THID	LF	LSCWS	Fig.	
SMH	MB40-16	40	16	32	-	-	15	17	1	0.32
	MB40-22	40	22	40	-	-	13	19	1	0.38
	MB50-16	50	16	32	-	-	15	17	1	0.48
	MB50-22	50	22	40	-	-	15	19	1	0.55
	MB50-27	50	27	50	-	-	15	21	1	0.66
	MB50-32	50	32	60	-	-	15	24	1	0.79
	MB63-22	63	22	60	-	-	15	19	1	1.01
	MB63-27	63	27	60	-	-	15	21	1	1.09
	MB63-32	63	32	70	-	-	15	24	1	1.24
	MB80-32	80	32	88	-	-	24	24	1	2.09
	MB80-40	80	40	88	66.7	M12	24	27	2	2.25
	MB80-50	80	50	90	-	-	24	30	2	2.58
	MB80-60(1)	80	60	128.5	101.6	M16	31.5	40	2	4.19
	MB110-60(1)	110	60	128.5	101.6	M16	36	40	2	7.64

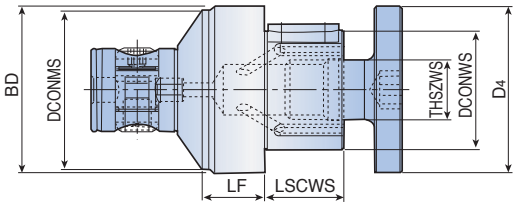
Spare Parts
H71-H83

• (1)Shell locking screw not supplied

ADVANCE MACHINING
TaeguTec Industry 4.0

STUB MB80-60

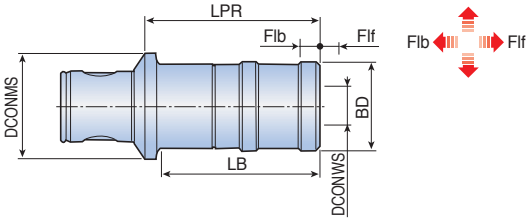
STUB 60 Holder with an MB80 connection



Designation	Dimension (mm)							Kg
	DCONMS	DCONWS	BD	D4	THSZWS	LF	LSCWS	
STUB MB80-60	MB80	60	84	84	M30	31.5	40	6.3

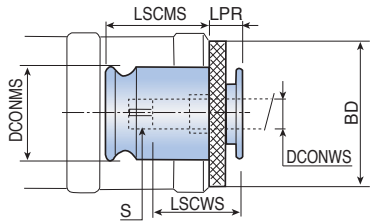
TP MB-M

Tapping chucks with MB modular system connection



Designation	Dimension (mm)									Kg
	DCONMS	TAP_{min}	TAP_{max}	LB	LPR	BD	DCONWS	Flf	Flb	
TP MB50-M 3-12	MB50	M1	M14	60	72	36	19	7.5	7.5	0.8
MB50-M 8-20	MB50	M4.5	M20	-	106	53	31	12.5	12.5	1.6
MB63-M 3-12	MB63	M1	M14	58	70	36	19	7.5	7.5	1.2
MB63-M 8-20	MB63	M4.5	M20	93	104	53	31	12.5	12.5	1.9

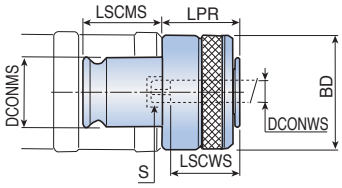
Quick change tap collets for solid taps



Designation		Dimension (mm)								
		DCONWS(1)	S(2)	S_1(3)	S_2(4)	BD	DCONMS	LSCWS	LPR	LSCMS
TCS	#1 DIN 6-4.9	6.0	4.9	M4.5,M6	M8	30	19	17	7	21.5
	#1 DIN 7-5.5	7.0	5.5	M7	M10	30	19	17	7	21.5
	#1 DIN 8-6.2	8.0	6.2	M8	-	30	19	17	7	21.5
	#1 DIN 9-7	9.0	7.0	-	M12	30	19	17	7	21.5
	#1 DIN 10-8	10.0	8.0	M10	-	30	19	17	7	21.5
	#1 DIN 11-9	11.0	9.0	M14	M14	30	19	17	7	21.5
	#2 DIN 8x6.2	8.0	6.2	M8	-	48	31	30	11	35.0
	#2 DIN 9x7	9.0	7.0	-	M12	48	31	30	17	35.0
	#2 DIN 10x8	10.0	8.0	M10	-	48	31	30	17	35.0
	#2 DIN 11x9	11.0	9.0	-	M14	48	31	30	17	35.0
	#2 DIN 12x9	12.0	9.0	-	M16	48	31	30	17	35.0
	#2 DIN 14x11	14.0	11.0	-	M18	48	31	30	17	35.0
	#2 DIN 16x12	16.0	12.0	-	M20	48	31	30	17	35.0

• (1)According to tap shank size (2)Square size (3) Tap size according to DIN371 (4) Tap size according to DIN376/374

Quick change tap collets with a safety clutch

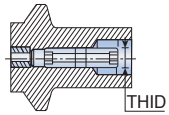


Designation	Dimension (mm)								
	DCONWS(1)	S(2)	S1(3)	S2(4)	BD	DCONMS	LSCWS	LPR	LSCMS
TCC #1 DIN 2.8-2.1	2.8	2.1	M2,M2.5	M4	32	19	17	25	21.5
#1 DIN 4-3	4.0	3.0	M3.5	-	32	19	17	25	21.5
#1 DIN 4.5-3.4	4.5	3.4	M4	M6	32	19	17	25	21.5
#1 DIN 6-4.9	6.0	4.9	M4.5,M6	M8	32	19	17	25	21.5
#1 DIN 7-5.5	7.0	5.5	M7	M10	32	19	17	25	21.5
#1 DIN 8-6.2	8.0	6.2	M8	-	32	19	17	25	21.5
#1 DIN 9-7	9.0	7.0	-	M12	32	19	17	25	21.5
#1 DIN 10-8	10.0	8.0	M10	-	32	19	17	25	21.5
#1 DIN 11-9	11.0	9.0	M10	M14	32	19	17	25	21.5
#2 DIN 6x4.9	6.0	4.9	M4.5,M6	M8	50	31	30	34	35.0
#2 DIN 7x5.5	7.0	5.5	M7	M10	50	31	30	34	35.0
#2 DIN 8x6.2	8.0	6.2	M8	-	50	31	30	34	35.0
#2 DIN 9x7	9.0	7.0	M7	M12	50	31	30	34	35.0
#2 DIN 10x8	10.0	8.0	M10	-	50	31	30	34	35.0
#2 DIN 11x9	11.0	9.0	-	M14	50	31	30	34	35.0
#2 DIN 12x9	12.0	9.0	-	M16	50	31	30	34	35.0
#2 DIN 14x11	14.0	11.0	-	M18	50	31	30	34	35.0
#2 DIN 16x12	16.0	12.0	-	M20	50	31	30	34	35.0

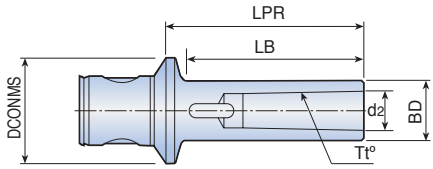
• (1)According to tap shank size (2)Square size (3) Tap size according to DIN371 (4) Tap size according to DIN376/374

MB shanks for morse taper tang

DIN 228A



DIN 228 B

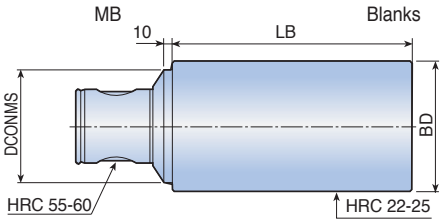


Designation		Dimension (mm)							Kg
		DCONMS	Tt°	d2	BD	THID	LPR	LB	
AMT	**MB50-MT1**	MB50	MT1	12.07	20	M6	80	68	0.6
	MB50-MT2	MB50	MT2	17.78	30	M10	100	86	0.7
	MB50-MT3	MB50	MT3	23.82	36	M12	120	110	1.0
	MB63-MT3	MB63	MT3	23.82	36	M12	120	108	1.3
	MB63-MT4	MB63	MT4	31.26	48	M16	150	133	2.0

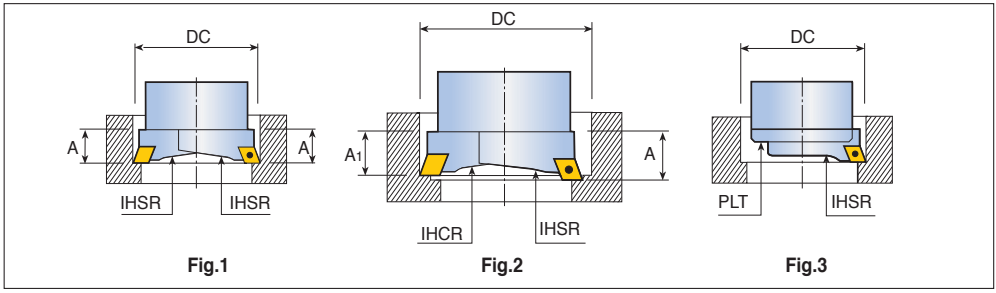
Spare Parts
H71-H83

BLANK MB

Blanks with MB connection



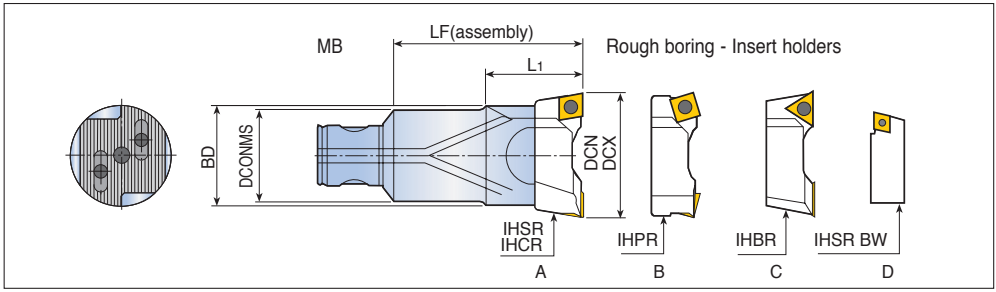
Designation	Dimension (mm)			Kg
	DCONMS	BD	LB	
BLANK MB50-63x60	MB50	63	60	0.48
MB50-63x120	MB50	63	120	0.4
MB50-63x150	MB50	63	150	0.5
MB50-80x150	MB50	80	150	0.5
MB50-100x150	MB50	100	150	0.6
MB63-80x100	MB63	80	100	0.7
MB63-80x150	MB63	80	150	1.1
MB63-100x100	MB63	100	100	1.2
MB63-100x150	MB63	100	150	1.9
MB63-120x100	MB63	120	100	2.1
MB63-120x200	MB63	120	200	3.5
MB80-100x100	MB80	100	100	0.4
MB80-80x100	MB80	80	100	0.5
MB80-80x150	MB80	80	150	0.5
MB80-100x150	MB80	100	150	0.6
MB80-120x100	MB80	120	100	0.7
MB80-120x200	MB80	120	200	1.1
MB80-100x150	MB80	100	150	1.2
MB80-120x100	MB80	120	100	1.9
MB80-120x200	MB80	120	200	2.1
MB110-130x250	MB110	130	250	18.0



- When using the MPT system, it is strongly recommended that the user utilizes the tool pre-setting equipment provided to set the radial cutting edges. The boring bars that are equipped with two inserts holders are for rough machining and heavy stock removal.
- The bars are applicable to three types of machining scenarious:
  - When two IHSR insert holders are on the same plane, the two cutting edges are placed at identical radial distances for high feed rough machining(Fig. 1).
  - When each IHCR and IHSR insert is not set on the same plane, each of the two cutting edges is placed at a different radial distance for deep rough machining(Fig. 2).
  - If boring bars are set with a single insert holder it allows rough and finish machining with normal chip removal. In this situation, it is strongly recommended that a serrated surface protection plate (PLT) is used(Fig. 3).

BHR MB

Rough boring heads 18-200mm range with MB connection



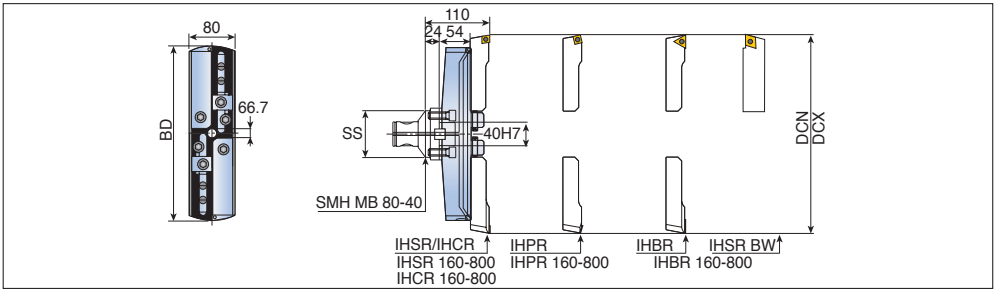
Designation		Dimension (mm)						Insert holders					Kg
		DCONMS	DCN	DCX	BD	LF	L1	Insert holders	A	B	C	D	
BHR	MB16-16x34	MB16	18	22	16	34	-	IH...18-22	●			●	0.05
	MB20-20x40	MB20	22	28	20	40	-	IH...22-28	●			●	0.09
	MB25-25x50	MB25	28	38	25	50	-	IH...28-38	●			●	0.20
	MB32-32x63	MB32	36	50	32	63	-	IH...36-50	●	●		●	0.35
	MB40-40x80	MB40	50	68	40	80	-	IH...50-68	●	●		●	0.70
	MB50-50x100	MB50	68	90	55	100	50	IH...68-90	●	●		●	1.50
	MB50-63x80	MB50	90	120	72	80	60	IH...90-120	●	●	●	●	2.00
	MB63-63x125	MB63	90	120	72	125	63	IH...90-120	●	●	●	●	3.00
	MB80-80x140	MB80	120	200	95	140	75	IH...120-800	●	●	●	●	5.30

Spare Parts H71-H83
H32,H35
Cutting Condition H84-H91

TCH

Rough Boring Heads

Rough boring aluminum body range: 200-500mm with MB connection

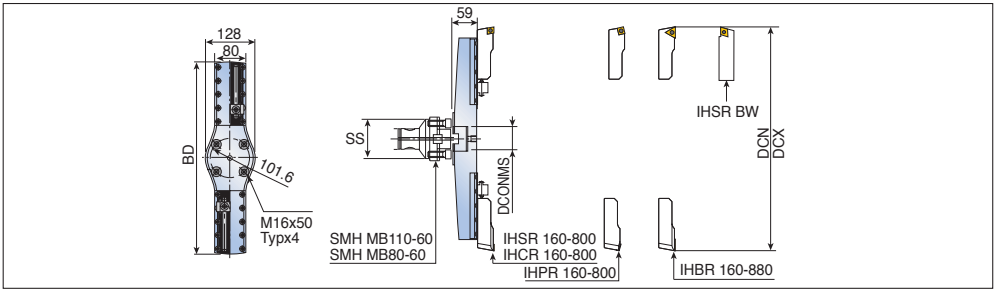


Designation	Dimension (mm)					Kg
	SS	DCN	DCX	BD	IH...160-800	
TCH 200	80	200	300	194	IHSR 160-800 IHCR 160-800 IHPR 160-800 IHBR 160-800	3.4
300	80	300	400	298		4.3
400	80	400	500	398		6.7

TCH A.L

Rough Boring Heads

Rough boring aluminum body range: 500-800mm with MB connection



Designation	Dimension (mm)					Kg
	SS	DCN	DCX	BD	DCONMS	
TCH A.L 500	80,110	500	600	494	60	8.7
600	80,110	600	700	594	60	8.34
700	80,110	700	800	694	60	8.34

Spare Parts H71-H83
H32,H35
Cutting Condition H84-H91

- Aluminum body with steel serrated seats

TaeguTec Member IMC Group

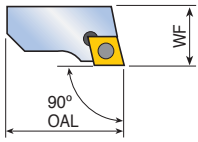


Fig.1

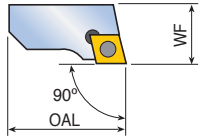


Fig.2

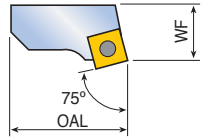


Fig.3

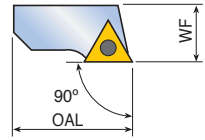
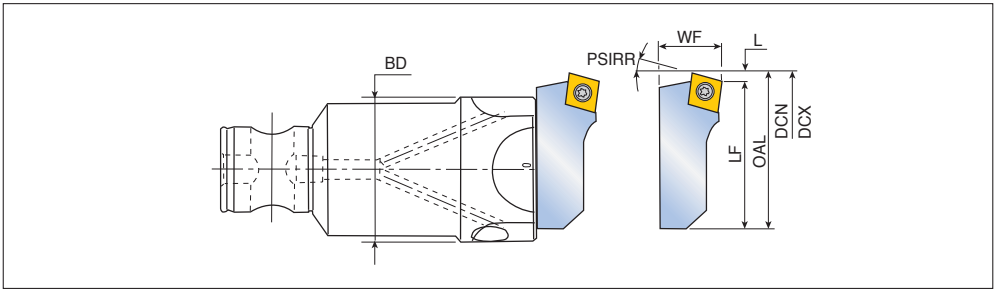


Fig.4

Designation		Dimension (mm)				Spare parts			Fig.
		DCN	DCX	WF	OAL	Insert	Insert screw	Torx key	
IHSR	**18-22**	18	22	8.0	15.0	CCMT 0602...	SR 14-548	T7/5	1
	22-28	22	28	9.5	19.0	CCMT 0602...	SR 14-548	T7/5	1
	28-38	28	38	12.5	23.0	CCMT 0602...	SR 14-548	T7/5	1
	36-50	36	50	15.0	32.0	CCMT 0602...	SR 14-548	T7/5	1
	50-68	50	68	19.0	40.0	CCMT 09T3...	TS 40097I	T15/5	1
	50-68-12	50	68	19.0	40.0	CCMT 1204..	SR 16-212	T20/5	1
	68-90	68	90	22.0	54.0	CCMT 1204..	SR 16-212	T20/5	1
	90-120	90	120	27.0	70.5	CCMT 1204...	SR 16-212	T20/5	1
	120-160	120	160	32.0	94.5	CCMT 1204..	SR 16-212	T20/5	1
	160-800	160	800	32.0	130.0	CCMT 1204..	SR 16-212	T20/5	1
IHCR	**28-38**	28	38	12.3	23.0	CCMT 0602..	SR 14-548	T7/5	2
	36-50	36	50	14.8	32.0	CCMT 0602...	SR 14-548	T7/5	2
	36-50-09	36	50	14.8	32.0	CCMT 09T3..	TS 40097I	T15/5	2
	50-68	50	68	18.7	40.0	CCMT 09T3..	TS 40097I	T15/5	2
	50-68-12	50	68	18.7	40.0	CCMT 1204..	SR 16-212	T20/5	2
	68-90	68	90	21.7	54.0	CCMT 1204..	SR 16-212	T20/5	2
	90-120	90	120	26.7	70.5	CCMT 1204..	SR 16-212	T20/5	2
	120-160	120	160	31.7	94.5	CCMT 1204..	SR 16-212	T20/5	2
	160-800	160	800	31.7	130.0	CCMT 1204..	SR 16-212	T20/5	2
IHPR	**36-50**	36	50	15	32.0	SCMT 09T3..	TS 40097I	T15/5	3
	50-68	50	68	19	40.0	SCMT 09T3...	TS 40097I	T15/5	3
	68-90	68	90	22	54.0	SCMT 1204..	SR 16-212	T20/5	3
	90-120	90	120	27	70.5	SCMT 1204..	SR 16-212	T20/5	3
	120-160	120	160	32	94.5	SCMT 1204..	SR 16-212	T20/5	3
	160-800	160	800	32	130.0	SCMT 1204..	SR 16-212	T20/5	3
IHBR	**90-120**	90	120	27	70.5	TCMT 2205..	SR 16-212	T20/5	4
	120-160	120	160	32	94.5	TCMT 2205..	SR 16-212	T20/5	4
	160-800	160	800	32	130.0	TCMT 2205..	SR 16-212	T20/5	4

H61-H64

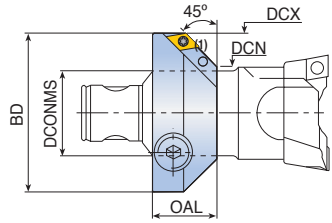
Chamfering tools



Designation		Dimension (mm)								Spare parts		
		DCN	DCX	PSIRR	LF	OAL	WF	L	BD	Insert	Insert screw	Torx key
IHSR	**26-38 CH15**	26.0	38.0	15	21.4	23	13.5	1.6	25	CCMT 0602..	SR 14-548	T-7/5
	26-38 CH30	26.0	38.0	30	20.0	23	13.5	3.0	25	CCMT 0602..	SR 14-548	T-7/5
	26-38 CH45	26.0	38.0	45	18.7	23	13.5	4.3	25	CCMT 0602..	SR 14-548	T-7/5
	34.5-49 CH15	34.5	49.0	15	29.4	31	16.0	1.6	32	CCMT 0602..	SR 14-548	T-7/5
	34.5-49 CH30	34.5	49.0	30	28.0	31	16.0	3.0	32	CCMT 0602..	SR 14-548	T-7/5
	34.5-49 CH45	34.5	49.0	45	26.7	31	16.0	4.3	32	CCMT 0602..	SR 14-548	T-7/5
	46.5-66 CH15	46.5	66.0	15	36.6	39	20.0	2.4	40	CCMT 09T3..	SR 16-236	T-15/5
	46.5-66 CH30	46.5	66.0	30	34.4	39	20.0	4.6	40	CCMT 09T3..	SR 16-236	T-15/5
	46.5-66 CH45	46.5	66.0	45	32.5	39	20.0	6.5	40	CCMT 09T3..	SR 16-236	T-15/5
	65-88 CH15	65.0	88.0	15	49.8	53	23.0	3.2	50	CCMT 1204..	SR 16-236	T-15/5
	65-88 CH30	65.0	88.0	30	46.8	53	23.0	6.2	50	CCMT 1204..	SR 16-236	T-15/5
	65-88 CH45	65.0	88.0	45	44.2	53	23.0	8.8	50	CCMT 1204..	SR 16-236	T-15/5

H61-H64

Chamfering tools



Designation	Dimension (mm)					Spare parts			Kg
	DCN	DCX	DCONMS	BD	OAL	Insert	Insert screw	Torx key	
CHA 16-45	18	28	16	28	13	DCMT 0702..	SR 14-548	T7/5	0.035
20-45	22	32	20	32	15	DCMT 0702..	SR 14-548	T7/5	0.045
25-45	28	43	25	43	18	DCMT 0702..	SR 14-548	T7/5	0.10
32-45	35	54	32	54	22	DCMT 0702..	SR 14-548	T7/5	0.20
40-45	46	72	40	72	30	DCMT 11T3..	SR 16-236P	T15/5	0.50
50-45	56	95	50	95	38	DCMT 11T3..	SR 16-236P	T15/5	1.10

H61-H64

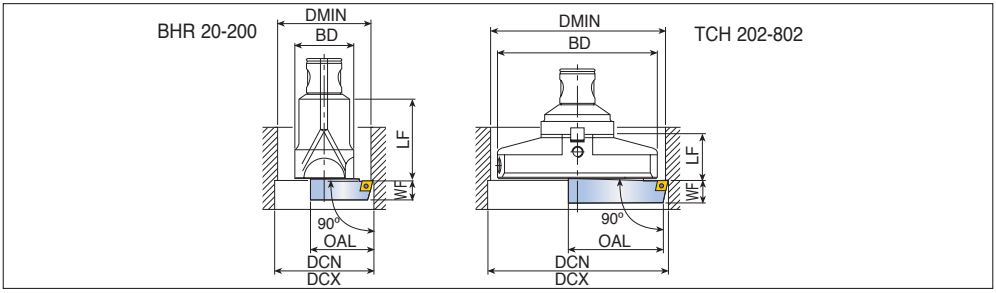
- To minimize mismatch use insert radius 0.2 mm.
- (1)Only one insert can be mounted on either one of the two pockets simultaneously.

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IHSR-BW

Rough Boring Insert Holders

Back face for BHR and TCH rough boring heads



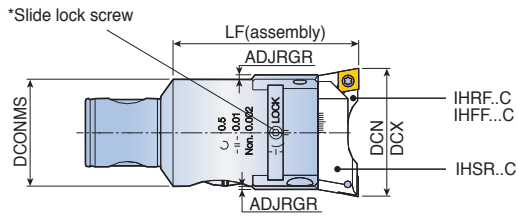
Designation	Dimension (mm)							Spare parts		
	SS	DCN	DCX	BD	LF	WF	OAL	Insert	Insert screw	Torx key
IHSR 20-24 BW	BHR MB16-16	20.0	24	16	27.5	8.0	16.0	CCMT 0602..	SR 14-548	T7/5
23.5-30 BW	BHR MB20-20	23.5	30	20	32.5	9.5	19.5	CCMT 0602..	SR 14-548	T7/5
29.5-40 BW	BHR MB25-20	29.5	40	25	39.0	12.0	24.0	CCMT 0602..	SR 14-548	T7/5
39-52 BW	BHR MB32-32	39	52	32	50.0	14.0	32.0	CCMT 09T3..	TS 40097I	T15/5
51-70 BW	BHR MB40-40	51	70	40	63.5	17.5	42.0	CCMT 1204..	SR 16-212	T20/5
69-92 BW	BHR MB50-50	69	92	55	80.5	21.0	57.0	CCMT 1204..	SR 16-212	T20/5
91-122 BW	BHR MB63-63	91	122	72	100.5	25.0	76.0	CCMT 1204..	SR 16-212	T20/5
121-162 BW	BHR MB80-80	121	162	95	110.5	28.0	101.0	CCMT 1204..	SR 16-212	T20/5
161-802 BW	BHR MB80-80	161	200	95	110.5	28.0	122.0	CCMT 1204..	SR 16-212	T20/5
	TCH200	202	302	198	56.5	28.0	122.0	CCMT 1204..	SR 16-212	T20/5
	TCH300	302	402	298	56.5	28.0	122.0	CCMT 1204..	SR 16-212	T20/5
	TCH400	402	502	398	61.5	28.0	122.0	CCMT 1204..	SR 16-212	T20/5
	TCH500	502	602	494	61.5	28.0	122.0	CCMT 1204..	SR 16-212	T20/5
	TCH600	602	702	594	61.5	28.0	122.0	CCMT 1204..	SR 16-212	T20/5
	TCH700	702	802	694	61.5	28.0	122.0	CCMT 1204..	SR 16-212	T20/5

H61-H64

- DCX= Size of the boring head being used
- DMIN= (min bore diameter)= (DCN+BD+1)/2

Combi rough and fine boring heads

10μm
2μm



Designation	Dimension (mm)					IH	Kg
	DCONMS	DCN	DCX	LF	ADJRGR		
BHC MB25-25-57	MB25	28	36	56.5	0.5	IH.. C	0.20
MB32-32-71	MB32	36	46	71.0	0.5	IH.. C	0.35
MB40-40-90	MB40	46	60	90.0	1.0	IH.. C	0.70
MB50-50-87	MB50	60	75	87.0	1.0	IH.. C	1.50
MB63-63-109	MB63	78	100	109.0	2.0	IH.. C	2.70
MB80-80-130	MB80	95	120	130.0	2.0	IH.. C	4.80



- The roughing head precedes the finishing head by 0.2 mm. Each head can be adjusted independently.
- The finishing insert holder can be radially adjusted within 5 microns.
- Insert radius for combi rough and fine boring must be the same size.
- Loosen the *slide lock screw before making any slide adjustment.

IHRF-C/IHSR-C/IHFF-C

Combi Boring Insert Holders

Insert holders for BHC combi boring heads

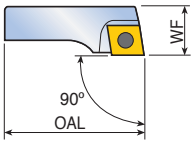


Fig.1

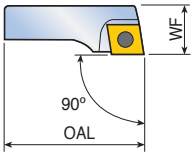


Fig.2

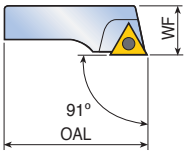


Fig.3

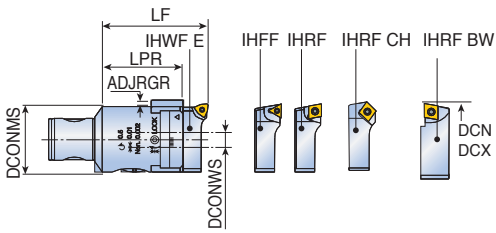
Designation		Dimension (mm)				Spare parts			Fig.
		DCN	DCX	WF	OAL	Insert	Insert screw	Torx key	
IHRF	**28-36 C**(1)	28	36	9.8	24.0	CCGT 0602..	SR 14-548	T7/5	1
	36-46 C(1)	36	46	11.3	30.0	CCGT 0602..	SR 14-548	T7/5	1
	46-60 C(1)	46	60	13.8	40.0	CCGT 09T3...	TS 40097I	T15/5	1
	60-75 C(1)	60	75	18.8	54.0	CCGT 09T3...	TS 40097I	T15/5	1
	75-95 C(1)	75	95	24.3	68.0	CCGT 09T3...	TS 40097I	T15/5	1
	95-120 C(1)	95	120	29.3	87.0	CCGT 09T3...	TS 40097I	T15/5	1
IHSR	**28-36 C**(2)	28	36	10.0	24.0	CCMT 0602..	SR 14-548	T7/5	2
	36-46 C(2)	36	46	11.5	30.0	CCMT 0602..	SR 14-548	T7/5	2
	46-60 C(2)	46	60	14.0	40.0	CCMT 09T3...	TS 40097I	T15/5	2
	60-75 C(2)	60	75	19.0	54.0	CCMT 09T3...	TS 40097I	T15/5	2
	75-95 C(2)	75	95	24.5	68.0	CCMT 09T3...	TS 40097I	T15/5	2
	95-120 C(2)	95	120	29.5	87.0	CCMT 09T3...	TS 40097I	T15/5	2
IHFF	**28-36 C**(1)	28	36	9.8	24.0	TPGX 0902...	SO 25061I	T8/5	3
	36-46 C(1)	36	46	11.3	30.0	TPGX 0902...	SO 25061I	T8/5	3
	46-60 C(1)	46	60	13.8	40.0	TPGX 1103...	SO 30081I	T8/5	3
	60-75 C(1)	60	75	18.8	54.0	TPGX 1103...	SO 30081I	T8/5	3
	75-95 C(1)	75	95	24.3	68.0	TPGX 1103...	SO 30081I	T8/5	3
	95-120 C(1)	95	120	29.3	87.0	TPGX 1103...	SO 30081I	T8/5	3

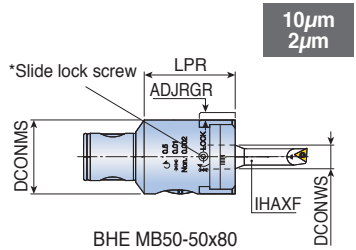
H61-H64

• (1)For finishing, (2) For roughing

TaeguTec

10μm direct diametric adjustment and 2μm with the vernier scale





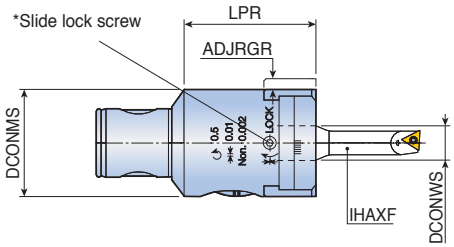
BHE MB50-50x80

Designation	Dimension (mm)							Kg
	DCONMS	DCN	DCX	LF	LPR	ADJRGR	DCONWS	
BHE MB14-14-30	MB14	14.5	18	30.0	22.0	1.0	-	0.09
MB16-16-34	MB16	18	24	34.0	26.0	2.0	-	0.10
MB20-20-40	MB20	22	30	40.0	31.5	3.0	-	0.15
MB25-25-50	MB25	28	40	50.0	40.0	3.0	-	0.23
MB32-32-63	MB32	35	53	63.0	51.5	4.0	-	0.42
MB40-40-80	MB40	48	66	80.0	66.0	5.0	-	0.83
MB50-50-80	MB50	6.0	110	80.0	61.0	5.0	16.0	1.15
MB63-63-89	MB63	6.0	125	89.0	69.5	10.0	-	2.13
MB80-80-104	MB80	6.0	200	104.0	85.0	12.0	-	3.83

H54,H59-H60

Fine boring heads for high rotation speed

10µm
2µm



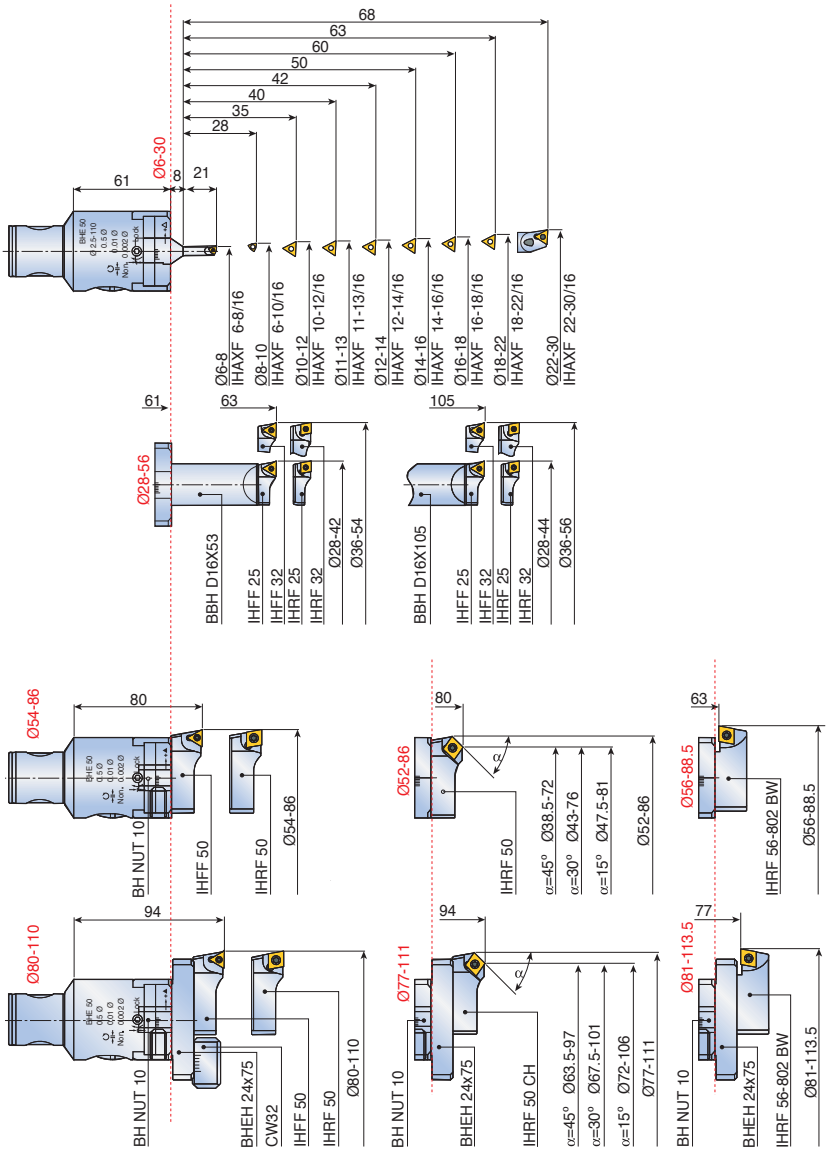
Designation	Dimension (mm)							Kg
	DCONMS	DCN	DCX	DCONWS	LPR	ADJRGR	RPMX	
BHE MB32-32-53H	MB32	2.5	18	8	53	0.5	12,000	0.35
MB50-50-60H	MB50	2.5	22	16	60	1.0	12,000	1.50

• Important: Loosen the *slide lock screw before making any slide adjustment.

Fine boring head range: 10μm direct diametric adjustment and 2μm with the vernier scale

BHE MB50-50x80
ø6-113.5

10μm
2μm

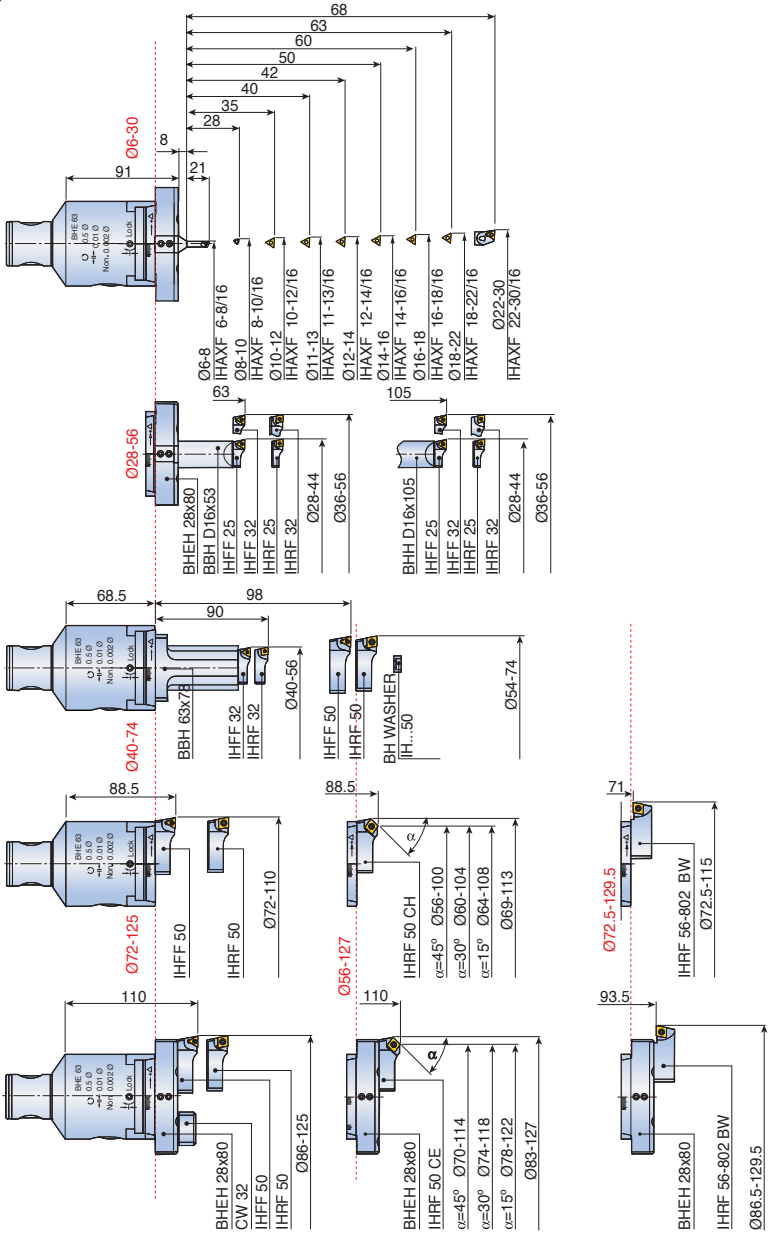


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Fine boring head range: 10μm direct diametric adjustment and 2μm with the vernier scale

BHE MB63-63x89
ø6-129.5

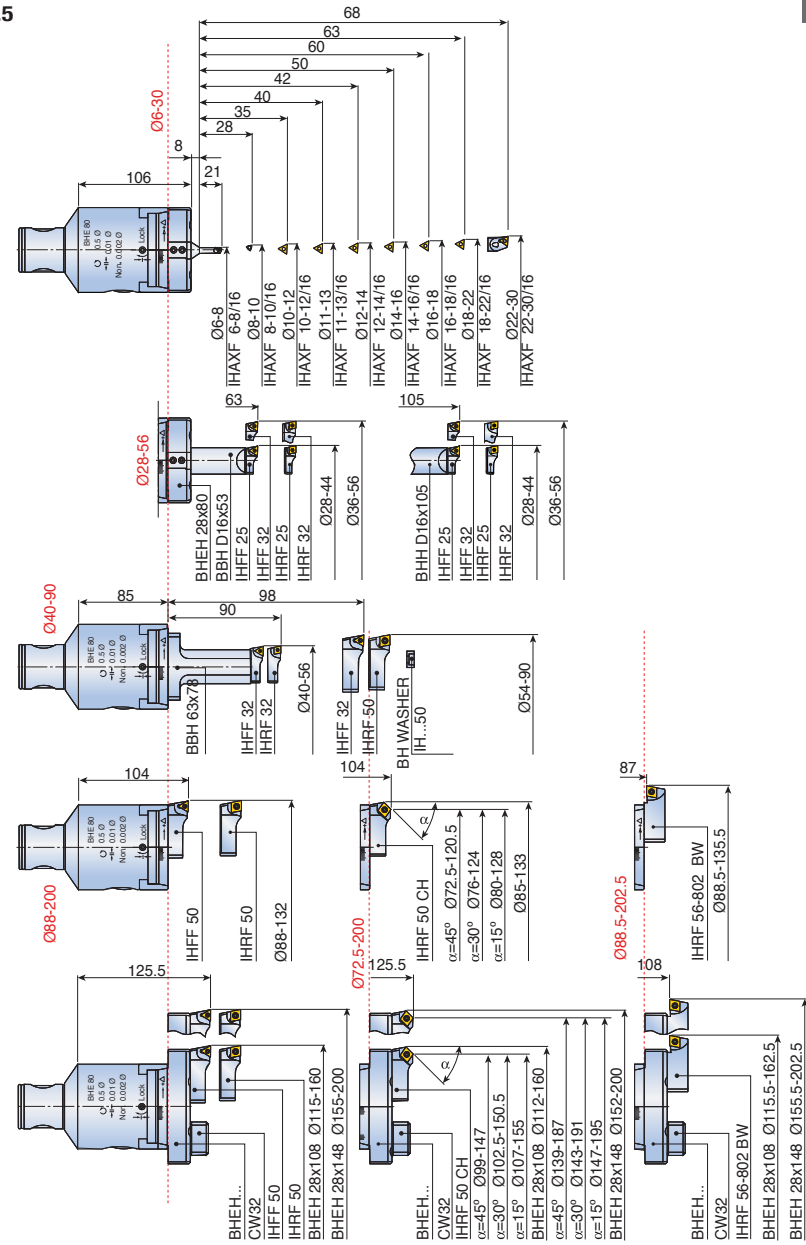
10μm
2μm



Fine boring head range: 10μm direct diametric adjustment and 2μm with the vernier scale

BHE MB80-80x104
ø6-202.5

10μm
2μm



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BHF fine boring heads

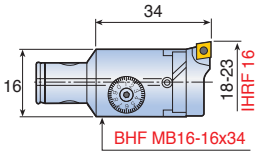
These intricate boring heads enable fine radial adjustments as small as 0.002mm whilst accomplishing high precision machining to the strictest of tolerances with a superb surface finish.



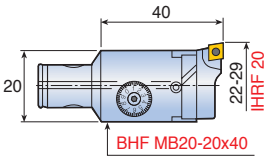
2µm

BHF MB16-MB40
Diameter range: 18-63

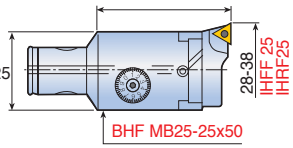
BHF MB16-16x34 RV
18-23



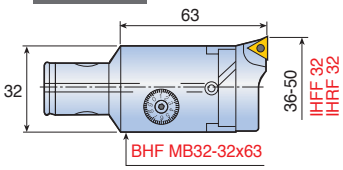
BHF MB20-20x40 RV
22-29



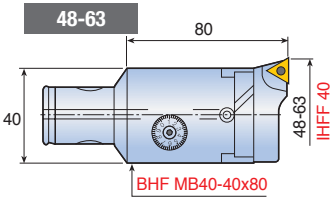
BHF MB25-25x50
28-38



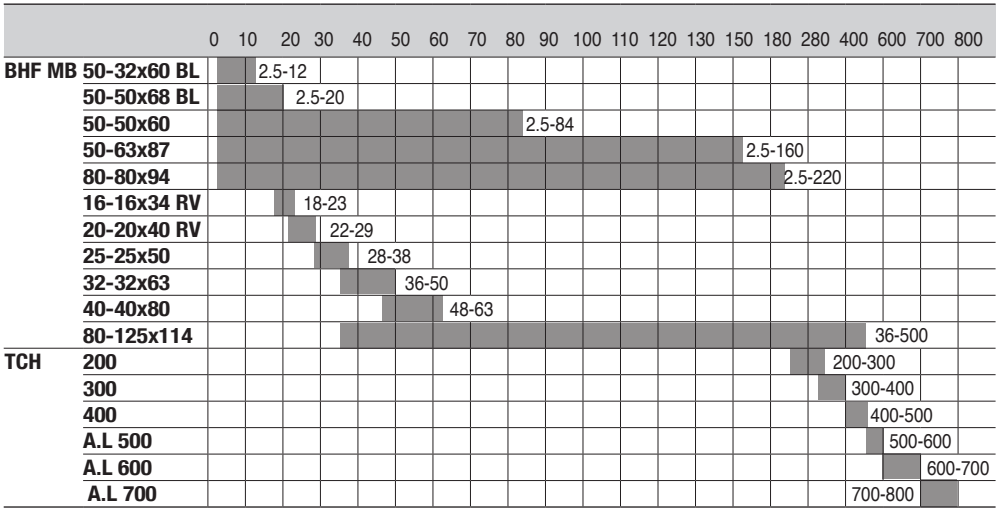
BHF MB32-32x63
36-50



BHF MB40-40x80
48-63



Fine boring head diameter range

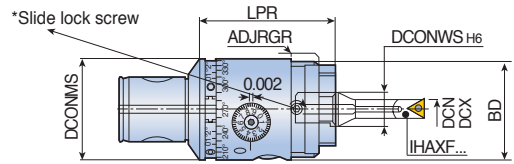


BHF MB-BL

Fine Boring Heads

Fine boring heads with balancing rings

2µm



Designation	Dimension (mm)							Kg
	DCONMS	DCN	DCX	DCONWS	BD	LPR	ADJRGR	
BHF MB50-32x60 BL	MB50	2.5	12.0	8	32	60.0	3	0.8
MB50-50x68 BL	MB50	6.0	22.0	16	50	68.5	4	1.1

BHF MB16-MB50, Dia.2.5-108

Fine Boring Heads

BHF MB: Fine boring heads

2µm

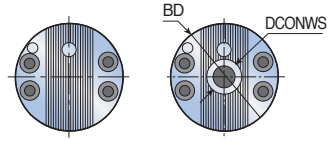
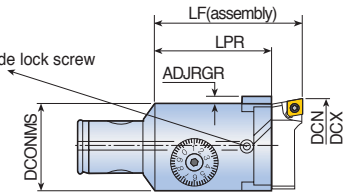


Fig.1

Fig.2



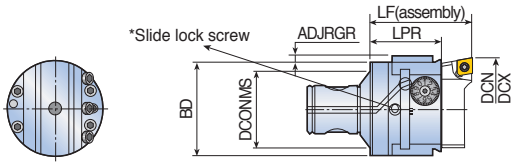
Designation	Dimension (mm)								Insert holder	Kg	Fig
	DCONMS	DCN	DCX	BD	LPR	LF	ADJRGA	DCONWS			
BHF MB16-16x34 RV	MB16	18	23	16	26.0	34	1	-	IH..16	0.05	1
MB20-20x40 RV	MB20	22	29	20	32.5	40	2	-	IH..20	0.1	1
MB25-25x50	MB25	28	38	25	40.0	50	2	-	IH..25	0.2	1
MB32-32x63	MB32	36	50	32	51.5	63	3	-	IH..32	0.35	1
MB40-40x80	MB40	48	63	40	66.0	80	4	-	IH..40	0.7	1
MB50-50x60	MB50	2.5	108	50	60.0	79	4	16	IH..50	1.0	2

Spare Parts H71-H83
Cutting Condition H84-H91
Slide H56
H54

• Important: Loosen the *slide lock screw before making any slide adjustment

Fine boring heads

2μm



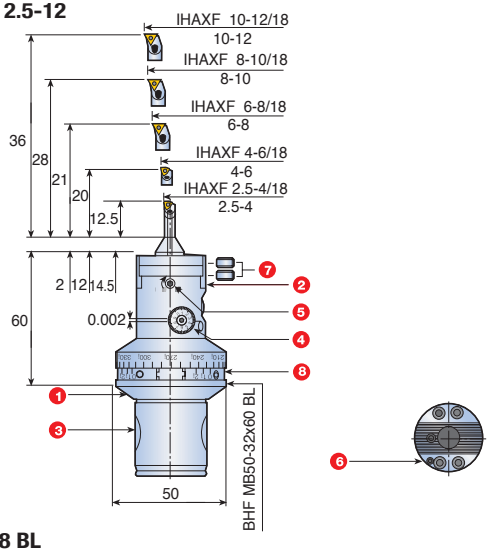
Designation	Dimension (mm)							Kg
	DCONMS	DCN	DCX	BD	LPR	LF	ADJRGR	
BHF **MB50-63x87**	MB50	2.5	125	63	49	87	5	1.3
MB50-80x94	MB50	2.5	160	80	58	94	5	2.1
MB63-63x87	MB63	2.5	125	63	49	87	5	1.6
MB80-80x94	MB80	2.5	160	80	58	94	5	2.6
MB80-125x114	MB80	135	500	125	63	114	5	5.8

• Important: Loosen the *slide lock screw before making any slide adjustment

Fine boring heads with balancing rings

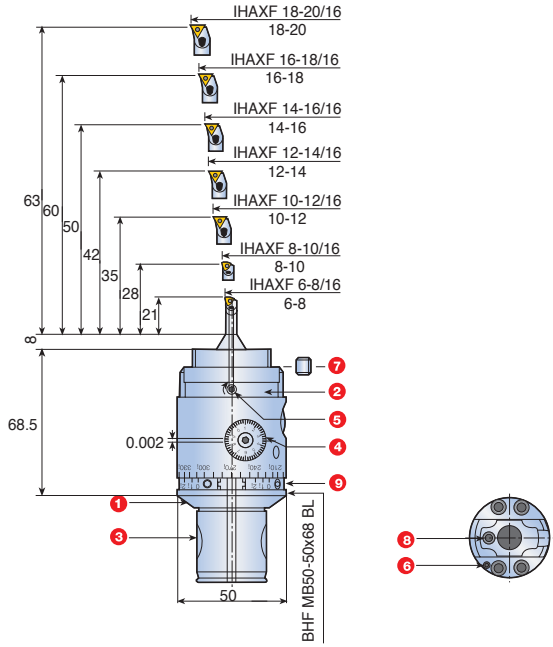
BHF MB50-32x60 BL
Diameter range: 2.5-12

2µm



1. Body
2. Tool slide
3. Expanding pin
4. Graduated dial
5. Slide locking screw
6. Coolant nozzle
7. Boring bar locking screws
8. Balancing rings

BHF MB50-50x68 BL
Diameter range: 6-12

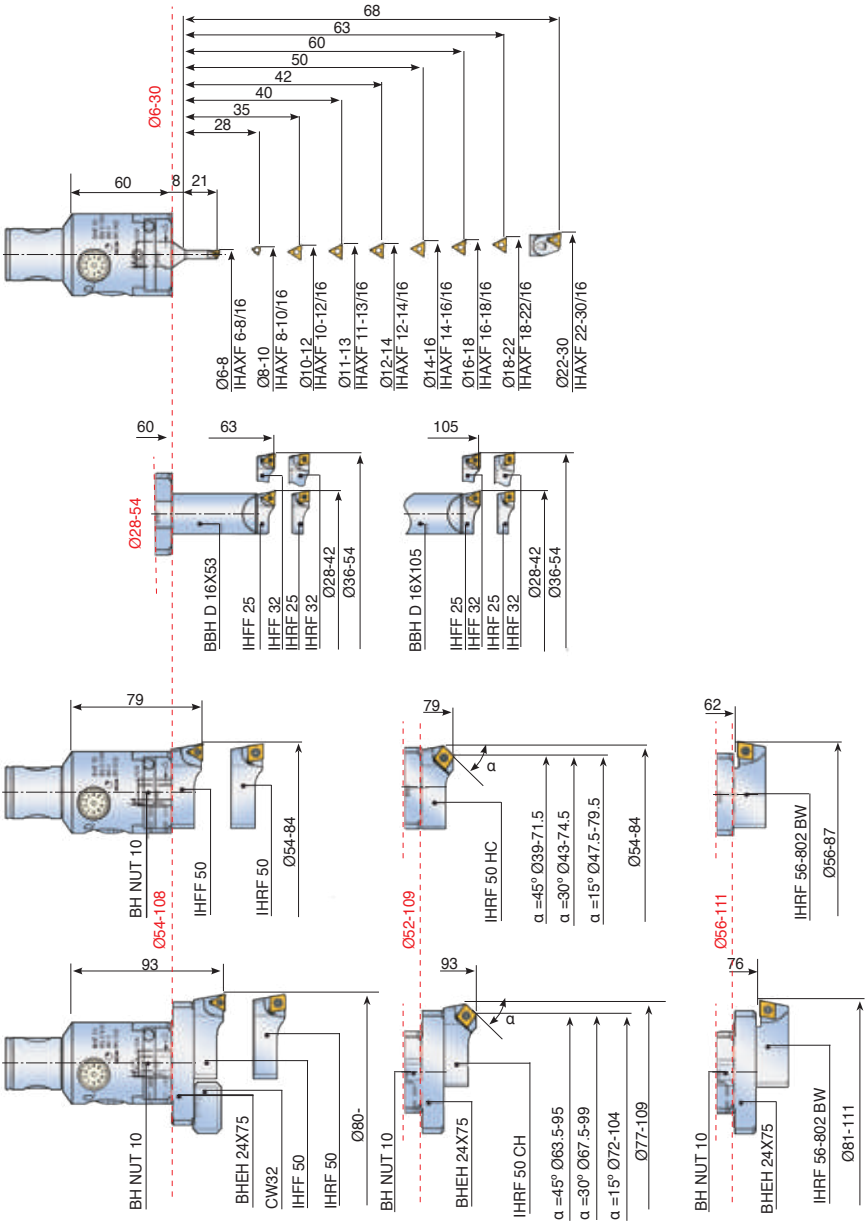


1. Body
2. Tool slide
3. Expanding pin
4. Graduated dial
5. Slide locking screw
6. Coolant nozzle
7. Boring bar locking screws
8. Oiling nipple
9. Balancing rings

Fine boring head range: 2µm direct diametric adjustment

BHF MB50-50x60
Diameter range: 6-111

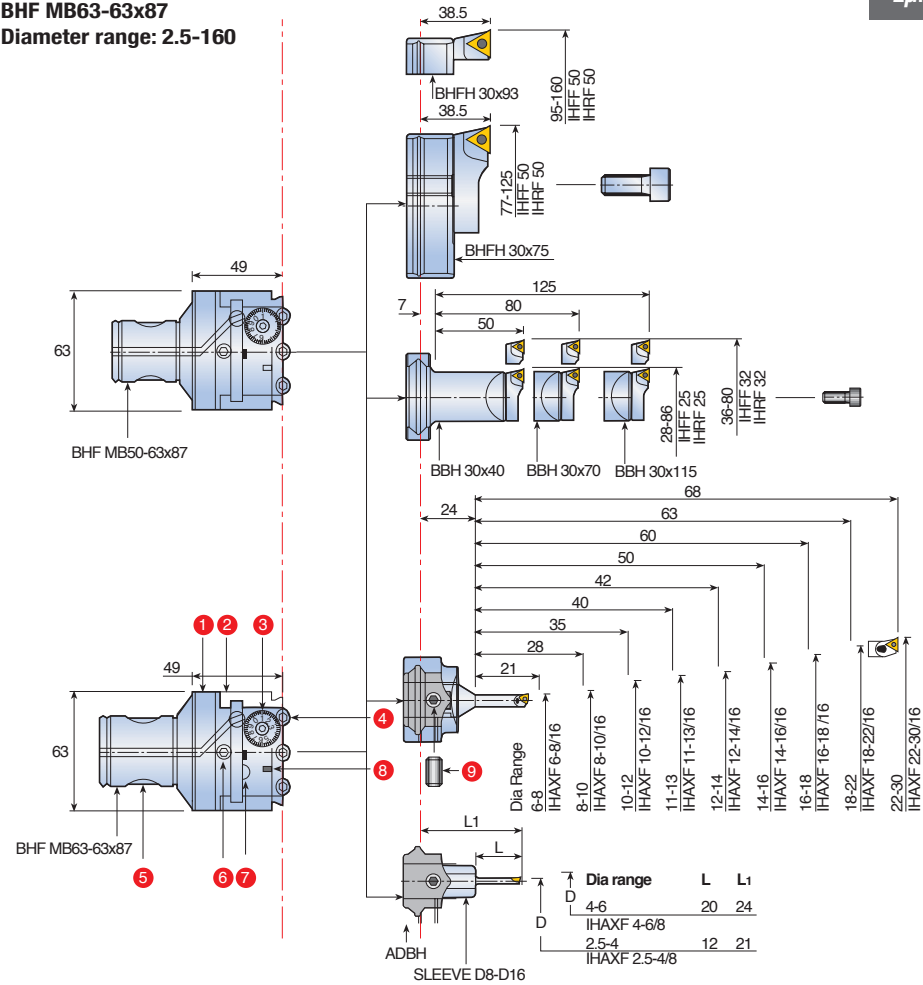
2µm



Fine boring head range: 2μm direct diametric adjustment

BHF MB50-63x87
BHF MB63-63x87
Diameter range: 2.5-160

2μm

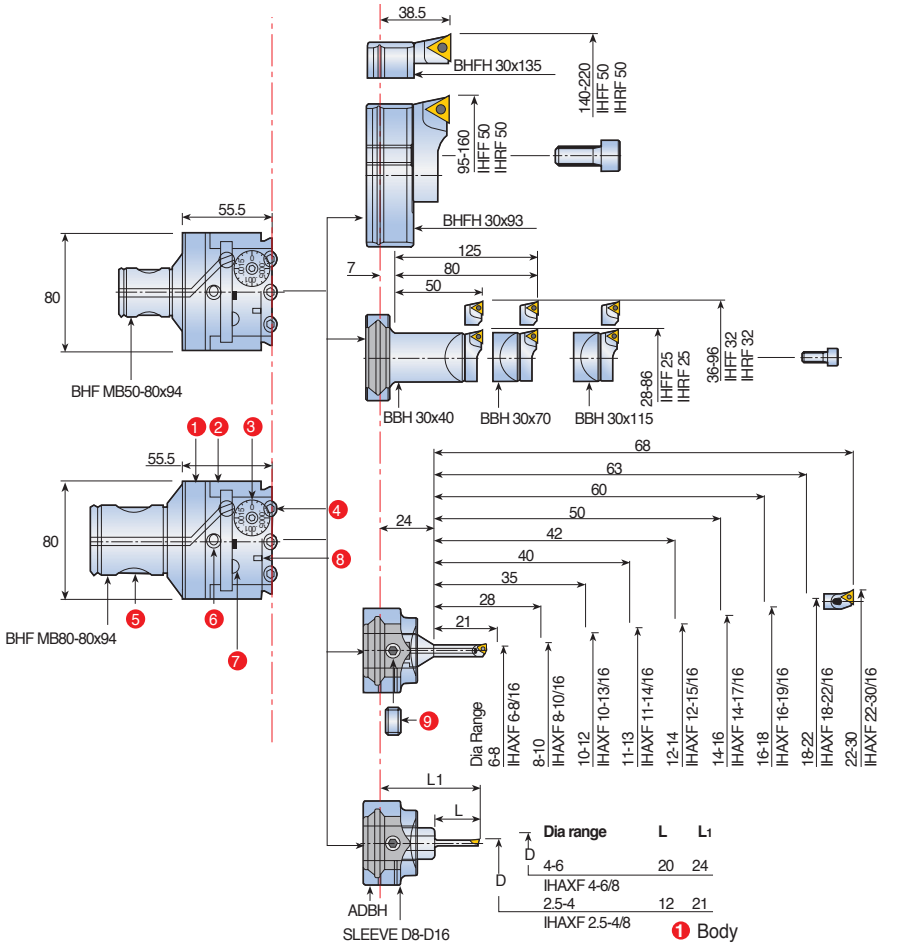


1. Body
2. Tool slide
3. Graduated dial
4. Toolholder locking screw
5. Expanding pin
6. Slide locking screw
7. Coolant nozzle
8. Oiling nipple
9. Toolholder locking screw

Fine boring head range: 2µm direct diametric adjustment

BHF MB50-80x94
BHF MB80-80x94
Diameter range: 2.5-220

2µm

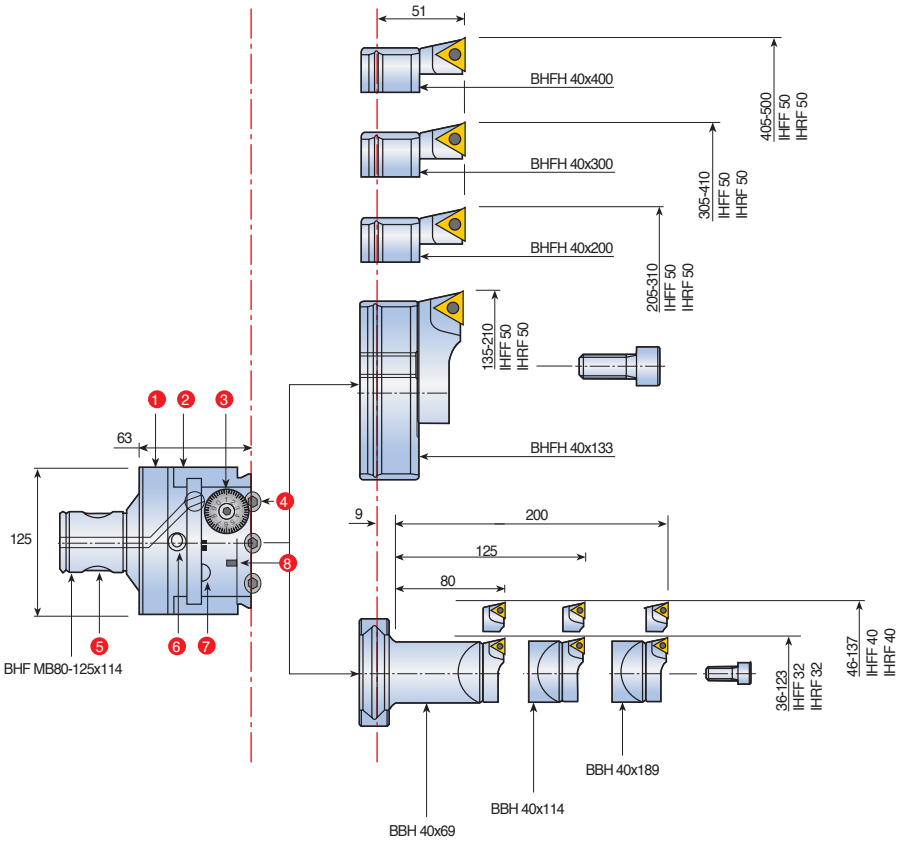


1. Body
2. Tool slide
3. Graduated dial
4. Toolholder locking screw
5. Expanding pin
6. Slide locking screw
7. Coolant nozzle
8. Oiling nipple
9. Toolholder locking screw

Fine boring head range: 2μm direct diametric adjustment

BHF MB80-125x114
Diameter range:36-500

2μm



1. Body
2. Tool slide
3. Graduated dial
4. Toolholder locking screw
5. Expanding pin
6. Slide locking screw
7. Coolant nozzle
8. Oiling nipple

IHAXF

Fine Boring Bar

8mm boring bar for 2.5-12mm fine boring heads

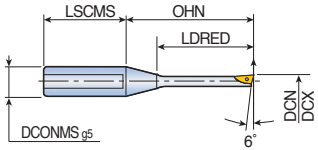


Fig.1

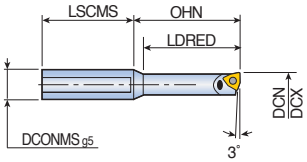


Fig.2

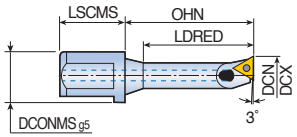
Designation		Dimension (mm)						Spare parts			Fig.
		DCN	DCX	LDRED	OHN	LSCMS	DCONMS	Insert	Screw	Key	
IHAXF	**2.5-4/8**(1)	2.5	4	12.5	21	22	8	Solid	-	-	1
	4-6/8(1)	4	6	20.0	24	24	8	Solid	-	-	1
	6-8/8	6	8	21.0	21	16	8	WCGT 0201	SR 14-299	T-6/5	2
	8-10/8	8	10	-	28	16	8	WCGT 0201	SR 14-299	T-6/5	2
	10-12/8	10	12	-	36	16	8	TPGX 0902	SR 14-299	T-6/5	2

• (1) Brazed tool

IHAXF

Fine Boring Bar

16mm bars for 6-30mm fine boring heads



Designation		Dimension (mm)						Spare parts		
		DCN	DCX	LDRED	OHN	LSCMS	DCONMS	Insert	Screw	Key
IHAXF	**6-8/16**	6	8	21.0	29	22	16	WCGT 0201	SR 14-299	T-6/5
	8-10/16	8	10	28.0	36	22	16	WCGT 0201	SR 14-299	T-6/5
	10-12/16	10	12	35.0	43	22	16	TPGX 0902	SO 25061I	T-8/5
	11-13/16	11	13	40.0	48	22	16	TPGX 0902	SO 25061I	T-8/5
	12-14/16	12	14	42.0	48	22	16	TPGX 0902	SO 25061I	T-8/5
	14-16/16	14	16	50.0	52	22	16	TPGX 0902	SO 25061I	T-8/5
	16-18/16	16	18	50.0	58	22	16	TPGX 0902	SO 25061I	T-8/5
	18-22/16	18	22	60.0	63	22	16	TPGX 0902	SO 25061I	T-8/5
	22-30/16	22	30	60.0	68	22	16	TPGX 0902	SO 25061I	T-8/5

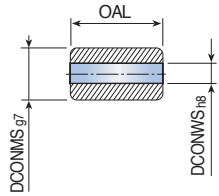
H61-H64

Cutting Condition
H84-H91

SLEEVE

Fine Boring Bar

Reducers for fine boring heads

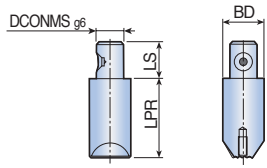


Designation	Dimension (mm)		
	DCONMS	DCONWS	OAL
SLEEVE D8-D16	16	8	23

BBH D16

Fine Boring Bar

Extension for BHF 50x50x63

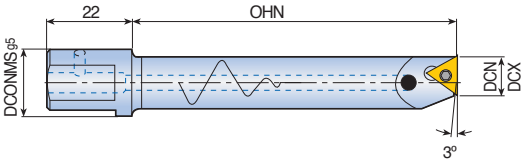


Designation	Dimension (mm)				Kg
	BD	LPR	DCONMS	LS	
BBH D16x53	25	53	16	21.5	0.3

IHAXF-AVI

Fine Boring Bar

Vibration dampening for fine boring bars – Heavy metal shank



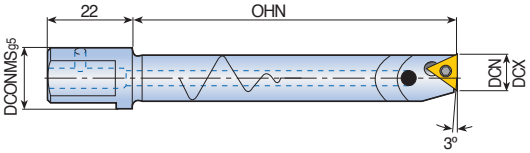
Designation	Dimension (mm)				Spare parts		
	DCN	DCX	OHN	DCONMS	Insert	Screw	Key
IHAXF 6-8-AVI	6	8	36	16	WCGT 0201..	SR 14-299	T-6/5
8-10-AVI	8	10	48	16	WCGT 0201..	SR 14-299	T-6/5
10-12-AVI	10	12	60	16	TPGX 0902..	SO 25061I	T-8/5
12-14-AVI	12	14	72	16	TPGX 0902..	SO 25061I	T-8/5
14-16-AVI	14	16	84	16	TPGX 0902..	SO 25061I	T-8/5
16-18-AVI	16	18	96	16	TPGX 0902..	SO 25061I	T-8/5

• Note: Not recommended to be used on balanceable BHF-BL fine boring head

IHAXF-E

Fine Boring Bar

Vibration dampening for fine boring bars – Carbide shank



Designation	Dimension (mm)				Spare parts		
	DCN	DCX	OHN	DCONMS	Insert	Screw	Key
IHAXF 6-8-E	6	8	45	16	WCGT 0201..	SR 14-299	T-6/5
8-10-E	8	10	60	16	WCGT 0201..	SR 14-299	T-6/5
10-12-E	10	12	75	16	TPGX 0902..	SO 25061I	T-8/5
12-14-E	12	14	90	16	TPGX 0902..	SO 25061I	T-8/5
14-16-E	14	16	105	16	TPGX 0902..	SO 25061I	T-8/5
16-18-E	16	18	120	16	TPGX 0902..	SO 25061I	T-8/5

H61-H64
Cutting Condition
H84-H91

• Note: Not recommended to be used on balanceable BHF-BL fine boring head

IHFF/IHRF

Fine Boring Insert Holders

Insert holders for mounting on the MB fine boring heads

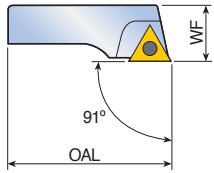


Fig.1

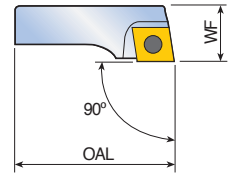


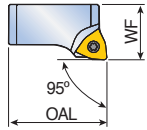
Fig.2

Designation		Dimension (mm)				Spare parts			Fig.
		DCN	DCX	WF	OAL	Insert	Insert screw	Torx key	
IHFF	**25**	28	40	10.0	26.5	TPGX 0902...	SO 25061I	T8/5	1
	32	35	53	11.5	34.5	TPGX 0902...	SO 25061I	T8/5	1
	40	48	66	14.0	44.0	TPGX 1103...	SO 30081I	T8/5	1
	50	54	86	19.0	52.0	TPGX 1103...	SO 30081I	T8/5	1
IHRF	**16**	18	24	8.0	17	CCGT 0602..	SR 14-548	T-7/5	2
	20	22	30	8.5	21.0	CCGT 0602..	SR 14-548	T-7/5	2
	25	28	40	10.0	26.5	CCGT 0602..	SR 14-548	T-7/5	2
	32	35	53	11.5	34.5	CCGT 0602..	TS 40097I	T-7/5	2
	40	48	66	14.0	44.0	CCGT 09T3...	TS 40097I	T-15/5	2
	50	54	86	19.0	52.0	CCGT 09T3...	TS 40097I	T-15/5	2

IHWF

Fine Boring Insert Holders

Insert holders for mounting on the MB fine boring heads



Designation		Dimension (mm)				Spare parts		
		DCN	DCX	WF	OAL	Insert	Insert screw	Torx key
IHWF	**14E**	14.5	18	8.0	14.0	WCGT 0201...	SR 14-299	T6/5

H61-H64

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BBH

Fine Boring Insert Holders & Slides

Slide extensions for fine boring holders

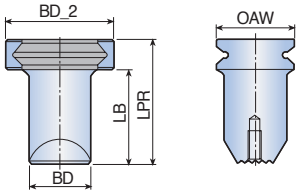


Fig.1

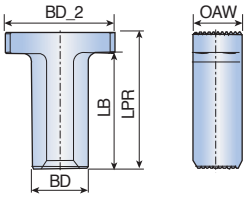


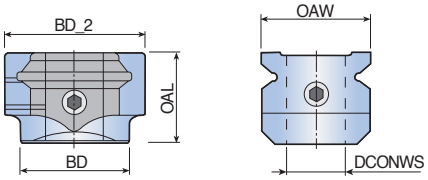
Fig.2

Designation	Dimension (mm)					Kg	Fig.
	BD	LB	LPR	BD_2	OAW		
BBH 30x40	25	40	52.5	43	30.5	0.3	1
30x70	25	70	82.5	43	30.5	0.4	1
30x115	27	115	127.5	43	30.5	0.7	1
40x69	32	69	86	56	40	0.7	1
40x114	32	114	131	56	40	1.0	1
40x189	38	189	206	56	40	2.0	1
63x78	32	66	78	63	28	0.7	2

ADBH

Fine Boring Insert Holders & Slides

Sleeve for fine boring holders



Designation	Dimension (mm)					Kg
	BD	BD_2	OAL	OAW	DCONWS	
ADBH 30xD16	30	39	25	30.5	16	0.2

BHFH/BHEH

Fine Boring Insert Holders & Slides

Slide for BHF & BHE fine boring holders

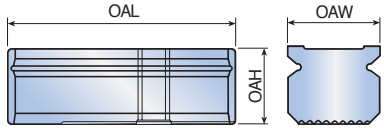


Fig.1

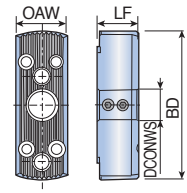


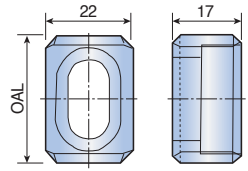
Fig.2

Designation	Dimension (mm)						Kg	Fig.
	OAH	OAL	OAW	BD	LF	DCONWS		
BHFH 30x75	25	75	30.5	-	-	-	0.4	1
30x93	25	93	30.5	-	-	-	0.5	1
30x135	25	135	30.5	-	-	-	0.7	1
40x133	40	133	40	-	-	-	1.5	1
40x200	40	200	40	-	-	-	2.4	1
40x300	40	300	40	-	-	-	3.5	1
40x400	40	400	40	-	-	-	4.6	1
BHEH 24x75	-	-	24	75	14.5	-	0.2	2
28x80	-	-	28	80	22.5	16	0.3	2
28x108	-	-	28	108	22.5	-	0.5	2
28x148	-	-	28	148	22.5	-	0.6	2

CW32

Fine Boring Insert Holders & Slides

Counter balancing weight



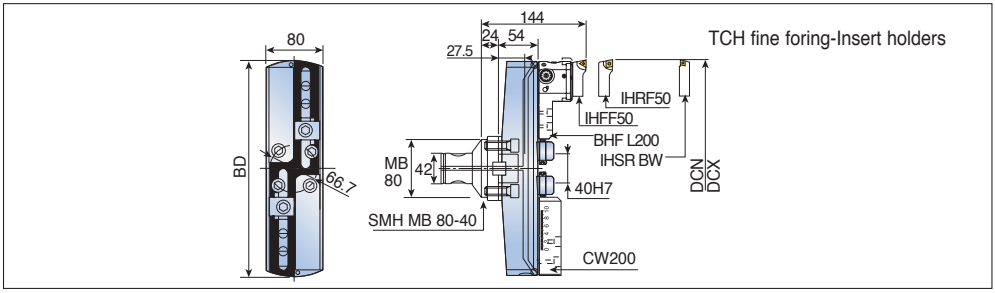
Designation	Dimension (mm)	Kg
	OAL	
CW 32	31.5	0.5

ADVANCE MACHINING
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TCH

Fine Boring Heads

Fine boring aluminum body range: 200-500mm with MB connection

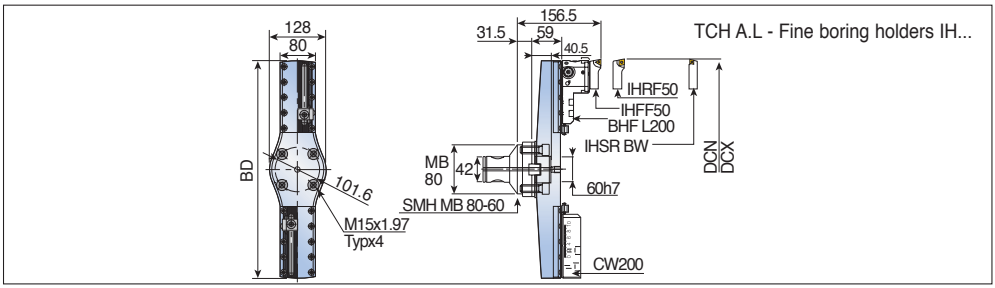


Designation	Dimension (mm)			Kg
	DCN	DCX	BD	
TCH 200	200	300	198	2.6
300	300	400	298	3.5
400	400	500	398	4.1

TCH A.L

Fine Boring Heads

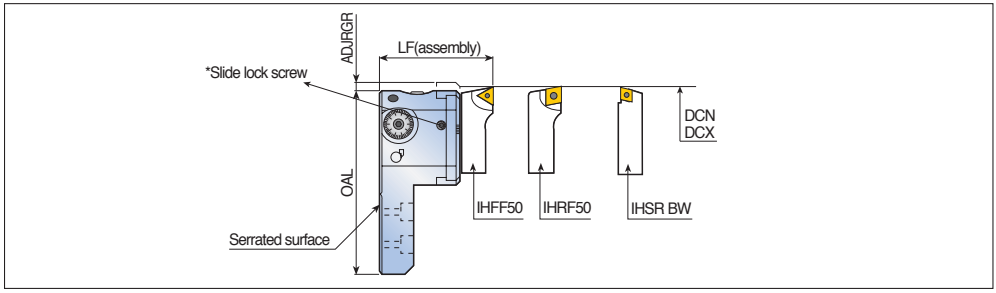
Fine boring aluminum body range: 500-800mm with MB connection



Designation	Dimension (mm)			Kg
	DCN	DCX	BD	
TCH A.L 500	500	600	494	7.5
600	600	700	594	9.0
700	700	800	694	10.5

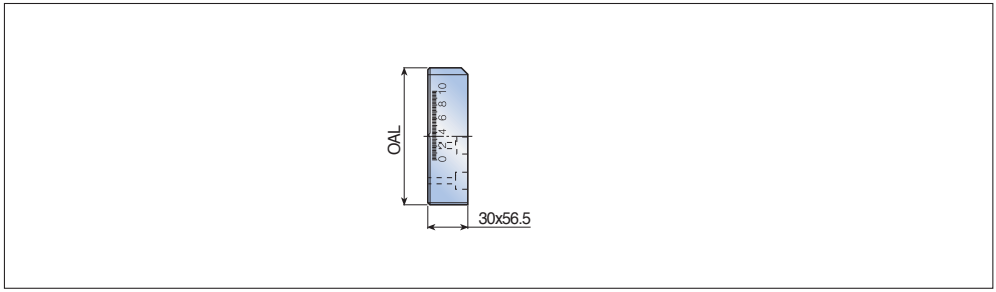
Spare Parts
H71-H83
H32

(200-800) Fine boring slide heads for TCH



Designation	Dimension (mm)					Kg
	DCN	DCX	OAL	LF	ADJRGR	
BHF L200	200	800	110	67	5	1.3

Counter balancing weight for TCH

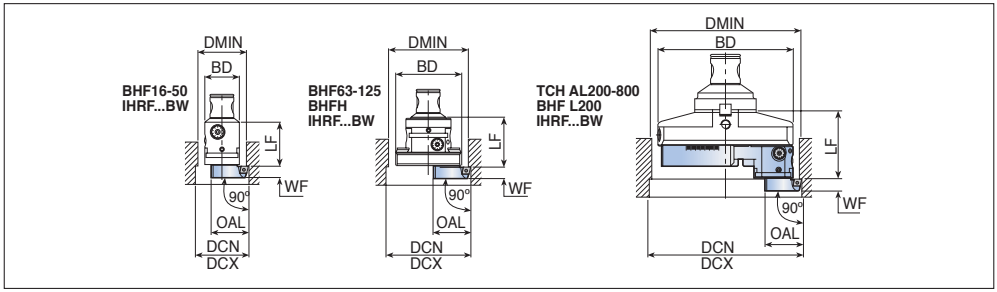


Designation	Dimension (mm)	Kg
	OAL	
CW 200	105	1.3

H54

• Important: Loosen the *slide lock screw before making any slide adjustment.

Back face for BHF and TCH fine boring holders

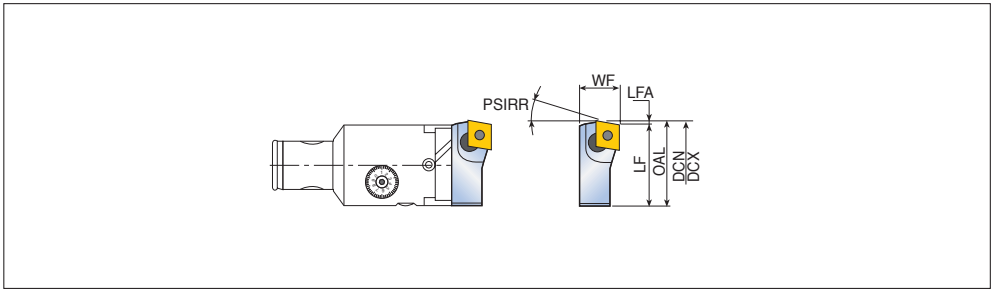


Designation	Dimension (mm)						Boring heads	Spare parts		
	DCN	DCX	BD	LF	WF	OAL		Insert	Clamping screw	Torx key
IHRF 20-25 BW	20	25	16	27.5	8.0	18.0	BHF MB16-16x34	CCGT 0602..	SR 14-548	T7/5
24.5-32 BW	24.5	32	20	33.5	8.5	22.5	BHF MB20-20x40	CCGT 0602..	SR 14-548	T7/5
31.5-41.5 BW	31.5	41.5	25	41.5	9.5	28.5	BHF MB25-25x50	CCGT 0602..	SR 14-548	T7/5
38.5-51.5 BW	38.5	51.5	32	53.0	11.0	35.5	BHF MB32-32x63	CCGT 0602..	SR 14-548	T7/5
50.5-65 BW	50.5	65	40	68.0	13.5	46.0	BHF MB40-40x80	CCGT 09T3..	TS 40097I	T15/5
56-802 BW	56	86	50	62.0	17.5	53.0	BHF MB50-50x60	CCGT 09T3..	TS 40097I	T15/5
	82	120	75	70.2	17.5	53.0	BHF63+BHFH30x75	CCGT 09T3..	TS 40097I	T15/5
	100	142	93	79.5	17.5	53.0	BHF80+BHFH30x93	CCGT 09T3..	TS 40097I	T15/5
	140	240	135	98.0	17.5	53.0	BHF125+BHFH40x133	CCGT 09T3..	TS 40097I	T15/5
	202	302	198	103.0	17.5	53.0	TCH200+BHF L200	CCGT 09T3..	TS 40097I	T15/5
	302	402	298	103.0	17.5	53.0	TCH300+BHF L200	CCGT 09T3..	TS 40097I	T15/5
	402	502	398	103.0	17.5	53.0	TCH400+BHF L200	CCGT 09T3..	TS 40097I	T15/5
	502	602	494	108.0	17.5	53.0	TCH500+BHF L200	CCGT 09T3..	TS 40097I	T15/5
	602	702	594	108.0	17.5	53.0	TCH600+BHF L200	CCGT 09T3..	TS 40097I	T15/5
	702	802	694	108.0	17.5	53.0	TCH700+BHF L200	CCGT 09T3..	TS 40097I	T15/5

H61-H64 H54 Cutting Condition H84-H91

- BD= Size of the boring head being used.
- DMIN= (min bore diameter)= (DCN+BD+1)/2

Chamfering tools for BHF-boring heads

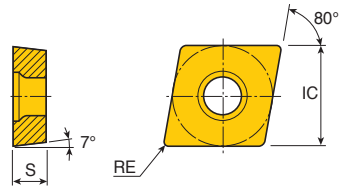


Designation	Dimension (mm)							Spare parts
	DCN	DCX	PSIRR	LF	OAL	WF	LFA	Insert
IHRF 25 CH15 28-38	28	38	15°	24.00	25.7	10.4	1.7	CCGT 0602...
25 CH30 28-38	28	38	30°	22.60	25.6	10.4	3.2	CCGT 0602...
25 CH45 28-38	28	38	45°	21.40	25.9	10.4	4.4	CCGT 0602...
32 CH15 35-53	35	53	15°	32.00	33.7	12.6	1.7	CCGT 0602...
32 CH30 35-53	35	53	30°	30.50	33.7	12.1	3.2	CCGT 0602...
32 CH20 36-50	36	50	20°	32.50	34.8	13.5	2.2	CCGT 0602...
32 CH45 36-50	36	50	45°	29.20	33.7	12.1	4.6	CCGT 0602...
32 CH60 36-50	36	50	60°	29.30	34.8	12.0	5.6	CCGT 0602...
40 CH60 48-63	48	63	60°	39.10	47.5	16.5	8.4	CCGT 09T3...
40 CH15 48-66	48	66	15°	44.90	47.4	17.5	2.5	CCGT 09T3...
40 CH30 48-66	48	66	30°	38.20	42.9	14.4	4.7	CCGT 09T3...
40 CH45 48-66	48	66	45°	36.40	43.0	14.4	6.7	CCGT 09T3...
50 CH15 54-800	54	800	15°	48.10	50.6	19.4	2.5	CCGT 09T3...
50 CH20 54-800	54	800	20°	52.20	55.5	18.0	3.3	CCGT 09T3...
50 CH30 54-800	54	800	30°	49.95	50.8	19.4	4.7	CCGT 09T3...

H61-H64

CCMT/CCGT

Positive 7° clearance 80° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
06	6.35	2.38	0.1-0.8
09	9.52	3.97	0.1-0.8
12	12.7	4.76	0.2-1.2

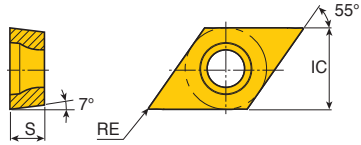
Insert	Designation	Cermet		CVD coated											PVD coated				Uncoated		
		PV3010	CT3000	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT5080	TT8020	TT9020	TT9080	P20	K10	K20
	**CCMT 060204 MT**	●	●	●	●		●	●	●	●		●	●	●	●	●				●	
	060208 MT	●	●	●	●			●	●	●				●	●			●			
	09T304 MT	●	●	●	●	●		●	●			●	●	●	●	●					
	09T308 MT		●	●	●	●		●	●	●	●	●	●	●	●	●					
	120404 MT	●	●	●	●			●	●					●		●					
	120408 MT		●	●	●	●		●	●	●		●	●	●	●	●					
	120412 MT			●				●	●					●							
	**CCGT 060201 SA**														●		●				
	060202 SA														●		●				
	060204 SA														●		●				
	09T301 SA														●		●				
	09T302 SA														●		●				
	09T304 SA														●		●	●			
	09T308 SA														●		●				
	**CCGT 060202 FL**																			●	
	060204 FL																			●	
	09T302 FL																			●	
	09T304 FL																			●	
	09T308 FL																			●	
	120402 FL																			●	
	120404 FL																			●	
	120408 FL																			●	

● : Standard items

DCMT

Boring Inserts

Positive 7° clearance 55° rhombic inserts



Size	Dimension (mm)		
	IC	S	RE
07	6.35	2.38	0.4-0.8
11	9.52	3.97	0.4-1.2

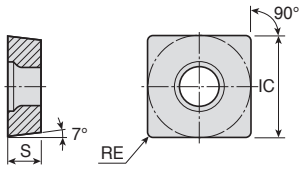
Insert	Designation	Cermet		CVD coated										PVD coated				Uncoated		
		PV3010	CT3000	TT7005	TT7015	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9020	TT9080	P20	K10	K20
	**DCMT 070204 PC**						●	●		●	●							●			
	070208 PC						●	●		●	●							●			
	11T304 PC					●	●	●		●	●							●			
	11T308 PC					●	●	●		●	●							●			
	11T312 PC						●	●		●	●							●			

● : Standard items

SCGT

Boring Inserts

Positive 7° clearance inserts for aluminum machining



Size	Dimension (mm)			
	IC	S	RE	
09	9.52	3.97	0.8	
12	12.7	4.76	0.2-0.8	

Insert	Designation	Cermet		CVD coated										PVD coated				Uncoated		
		PV3010	CT3000	TT7005	TT7015	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9020	TT9080	P20	K10	K20
	**SCGT 09T308 FL**																			●	
	120402 FL																			●	
	120404 FL																			●	
	120408 FL																			●	

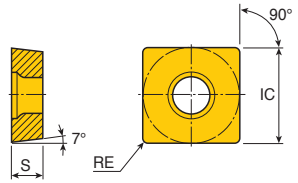
● : Standard items

ADVANCE MACHINING
TaeguTec Industry 4.0

SCMT

Boring Inserts

Positive 7° clearance square inserts



Size	Dimension (mm)		
	IC	S	RE
09	9.52	3.97	0.4-0.8
12	12.7	4.76	0.4-1.2

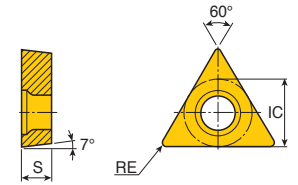
Insert	Designation	Cermet		CVD coated												PVD coated			Uncoated		
		PV3010	CT3000	TT7005	TT7015	TT7025	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9020	P20	K10	K20
	**SCMT 09T304 FG**							●				●									
	09T308 FG							●	●			●		●		●	●				
	**SCMT 09T304 MT**	●	●	●	●		●	●	●			●		●			●				
	09T308 MT		●	●	●	●		●	●	●		●	●	●	●	●	●				
	120404 MT		●	●	●			●	●					●							
	120408 MT		●	●	●	●		●	●	●		●	●	●		●	●				
	120412 MT			●	●		●		●	●							●				

● : Standard items

TCMT

Boring Inserts

Positive 7° clearance triangular inserts



Size	Dimension (mm)		
	IC	S	RE
22	12.7	4.76	0.8

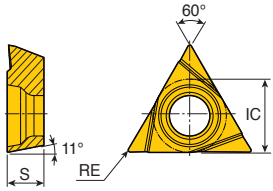
Insert	Designation	Cermet		CVD coated										PVD coated				Uncoated		
		PV3010	CT3000	TT7005	TT7015	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9020	TT9080	P30	K10	K20
	**TCMT 220508-19**																		●		

● : Standard items

TPGX

Boring Inserts

Positive 11° clearance triangular inserts



Size	Dimension (mm)		
	IC	S	RE
09	5.56	2.38	0.2-0.4
11	6.35	3.18	0.2-0.4

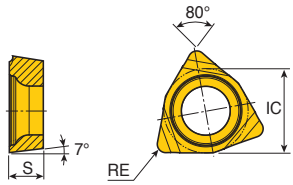
Insert	Designation	Cermet		CVD coated										PVD coated			Uncoated			
		PV3010	CT3000	TT7005	TT7015	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9020	P20	P30	K10	K20
 Left-hand	**TPGX 090202 L**		●																		
	090204 L		●																	●	
	110302 L		●																		
	110304 L		●																	●	

● : Standard items

WCGT

Boring Inserts

Positive 7° clearance 80° trigon inserts



Size	Dimension (mm)		
	IC	S	RE
02	3.97	1.59	0.2-0.4

Insert	Designation	Cermet		CVD coated										PVD coated				Uncoated		
		PV3010	CT3000	TT7005	TT7015	TT8105B	TT8115B	TT8125B	TT8135B	TT9215	TT9225	TT9235	TT5100	TT7100	TT5080	TT8020	TT9030	TT9080	P20	K10	K20
	**WCGT 020102L**																●				
	020104L																●				

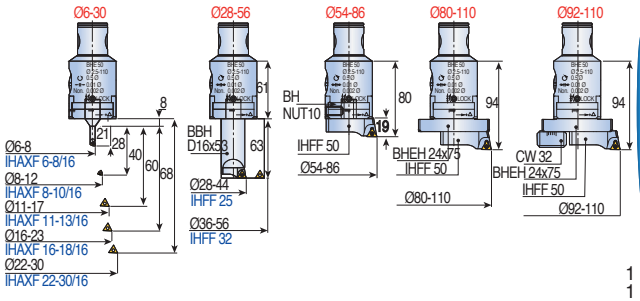
● : Standard items

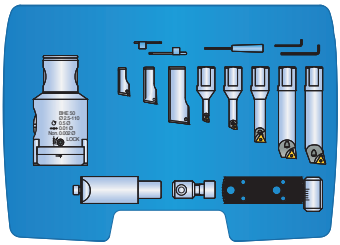
ADVANCE MACHINING
TaeguTec Industry 4.0

KIT BHE MB50-50x80

Boring kit BHE MB50-50 (ø6-110mm) with fine boring head

10µm
2µm





1 BHE MB50-50x80
1 IHFF 25
1 IHFF 32
1 IHFF 50
1 IHAXF 6-8/16
1 IHAXF 8-10/16
1 IHAXF 11-13/16
1 IHAXF 16-18/16
1 IHAXF 22-30/16
1 BBH D16x53
1 BHEH 24x75
1 BH NUT 10
1 CW 32

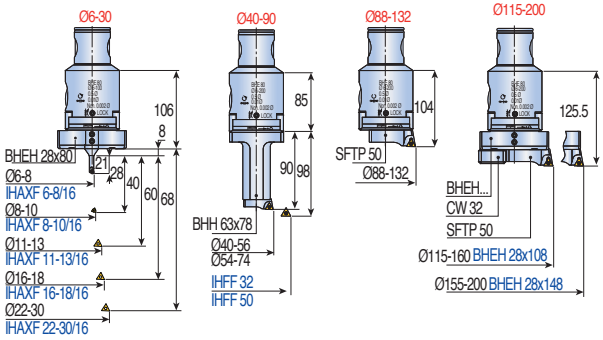
Designation	Dimension (mm)	
	SS	Boring range
KIT BHE MB50-50x80	MB50	6-110

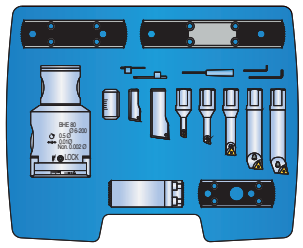
• 10µm direct diametric adjustment and 2µm by a vernier scale

KIT BHE MB63-63x89

Boring kit BHE MB63-63 (ø6-125mm) with fine boring head

10µm
2µm





1 BHE MB63-63x89
1 IHFF 32
1 IHFF 50
1 IHFF 6-8/16
1 IHAXF 8-10/16
1 IHAXF 11-13/16
1 IHAXF 16-18/16
1 IHAXF 22-30/16
1 BBH 63x78
1 BHEH 28x80
1 BH WASHER IH..50
1 CW 32

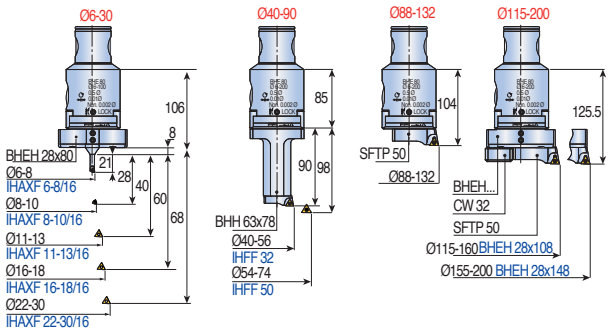
Designation	Dimension (mm)	
	SS	Boring range
KIT BHE MB63-63x89	MB63	6-125

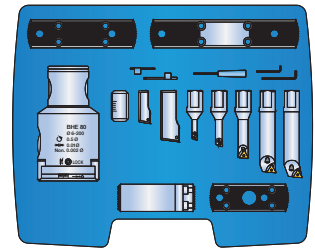
KIT BHE MB80-80x104

Kits

Boring kit BHE MB80-80 (ø6-200mm) with fine boring head

10µm
2µm





1 BHE MB80-80x104
1 IHFF 32
1 IHFF 50
1 IHFF 6-8/16
1 IHAXF 8-10/16
1 IHAXF 11-13/16
1 IHAXF 16-18/16
1 IHAXF 22-30/16
1 BBH 63x78
1 BHEH 28x80
1 BHEH 28x108
1 BHEH 28x148
1 BH WASHER IH..50
1 CW 32

Designation	Dimension (mm)	
	SS	Boring range
KIT BHE MB80-80x104	MB80	6-200

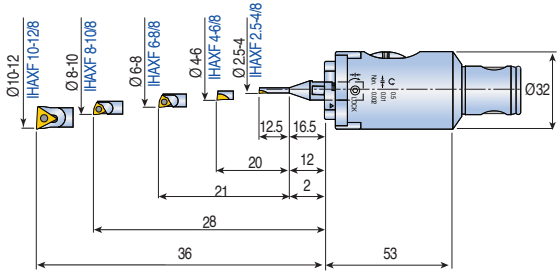
KIT BHE MB32-32x53 H

Kits

Boring kit BHE MB32-32x53 H (ø2.5-12mm) with fine boring head

G2.5
12,000 RPM

10µm
2µm





Boring tools:
1 BHF MB32-32X53 H
1 IHAXF 2.5-4/8
1 IHAXF 4-6/8
1 IHAXF 6-8/8
1 IHAXF 8-10/8
1 IHAXF 10-12/8

Inserts:
5 TPGX 090202L
2 WCGT 020102L

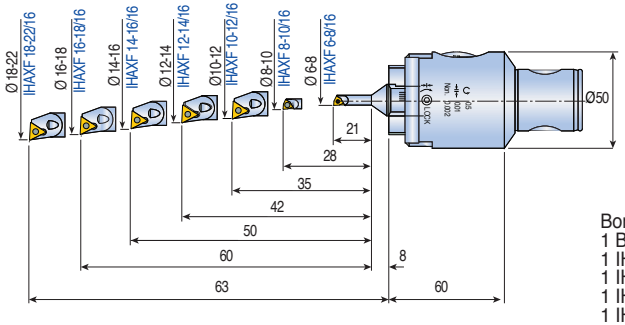
Designation	Dimension (mm)	
	SS	Boring range
KIT BHE MB32-32X53 H	MB32	2.5-12

ADVANCE MACHINING
TaeguTec Industry 4.0

KIT BHE MB50-50x60 H

Boring kit BHE MB50-50x60 H (ø6-22mm) with fine boring head

G2.5 | 12,000 RPM | 10µm 2µm





Boring tools:
1 BHE MB50-50X60 H
1 IHAXF 6-8/16
1 IHAXF 8-10/16
1 IHAXF 10-12/16
1 IHAXF 12-14/16
1 IHAXF 14-16/16
1 IHAXF 16-18/16
1 IHAXF 18-22/16

Inserts:
5 TPGX 090202L
2 WCGT 020102L

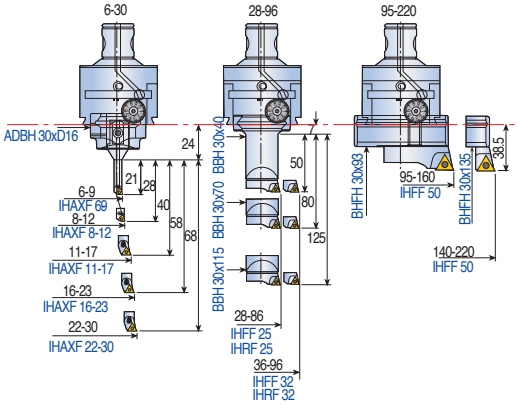
Designation	Dimension (mm)	
	SS	Boring range
KIT BHE MB50-50x60 H	MB50	6-22

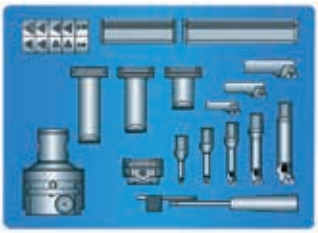
• 10µm direct diametric adjustment and 2µm by a vernier scale

KIT BHF MB50-80/80-80

Kit BHF MB50-80 / Kit BHF MB80-80 6-220mm diameter range

2µm





1 BHF MB..-80x94
1 IHAXF 6-8/16
1 IHAXF 8-10/16
1 IHAXF 11-13/16
1 IHAXF 16-18/16
1 IHAXF 22-30/16
1 ADBH 30xD16
1 BBH 30x40
1 BBH 30x70
1 BBH 30x115
1 BHFH 30x93
1 BHFH 30x135
1 IHFF 25
1 IHFF 32
1 IHFF 50
5 TPGX 090202L
1 TPGX 110302L
2 WCGT 020102L
T-8/5
T-6/5

Designation	Dimension (mm)	
	SS	Boring range
KIT BHF MB50-80	MB50	6-220
MB80-80	MB80	6-220

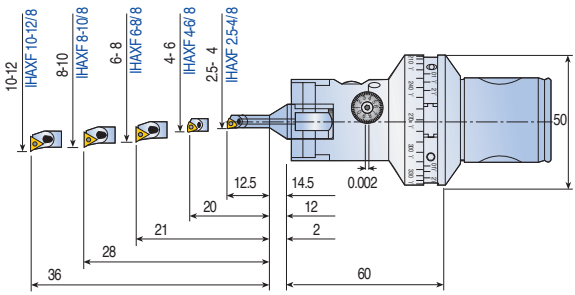
TaeguTec
Member IMC Group

KIT BHF MB 50-32 BL

Boring kit 2.5-12mm diameter range with BHF fine boring balanceable head

G2.5 20,000 RPM

2µm





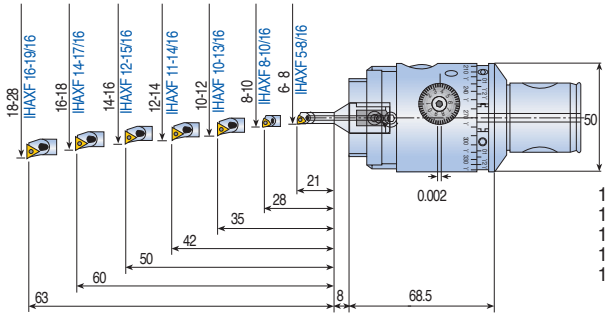
1 BHF MB50-32X60 BL
1 IHAXF 2.5-4/8
1 IHAXF 4-6/8
1 IHAXF 6-8/8
1 IHAXF 8-10/8
1 IHAXF 10-12/8
5 TPGX 090202L
2 WCGT 020102L

Designation	Dimension (mm)	
	SS	Boring range
KIT BHF MB50-32 BL	MB50	2.5-12

KIT BHF MB50-50 BL

Boring Kit 6-20mm diameter range with BHF BL fine boring balanceable head

2µm





1 BHF MB50-50X68 BL
1 IHAXF 6-8/16
1 IHAXF 8-10/16
1 IHAXF 10-12/16
1 IHAXF 12-14/16
1 IHAXF 14-16/16
1 IHAXF 16-18/16
1 IHAXF 18-22/16
5 TPGX 090202L
2 WCGT 020102L

Designation	Dimension (mm)	
	SS	Boring range
KIT BHF MB50-50 BL	MB50	6-20

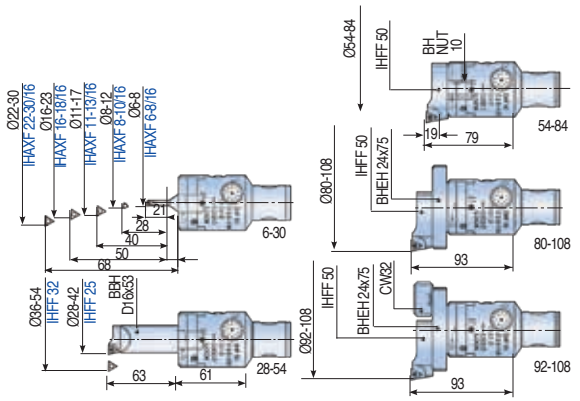
• 10µm direct diametric adjustment and 2µm by a vernier scale

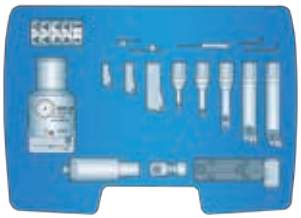
ADVANCE MACHINING
TaeguTec Industry 4.0

KIT BHF MB50-50 6-108

6-108mm diameter range

2µm





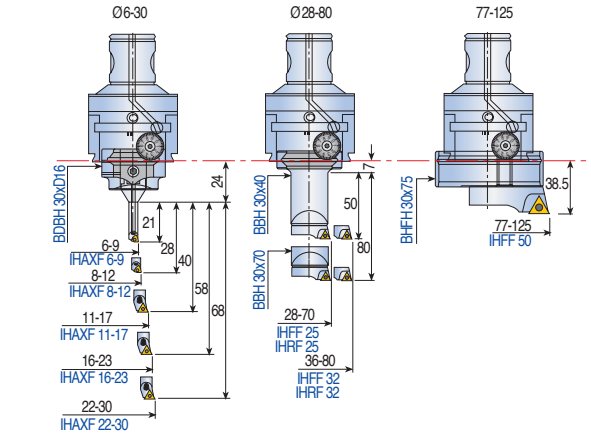
1 BHF MB50-50x60
1 IHFF 25
1 IHFF 32
1 IHFF 50
1 IHAXF 6-8/16
1 IHAXF 8-10/16
1 IHAXF 11-13/16
1 IHAXF 16-18/16
1 IHAXF 22-30/16
1 BBH D 16x53
1 BHEH 24x75
1 BH NUT 10
1 CW 32
5 TPGX 090202L
1 TPGX 110302L
2 WCGT 020102L

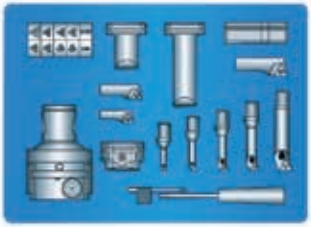
Designation	Dimension (mm)	
	SS	Boring range
KIT BHF MB50-50 6-108	MB50	6-108

KIT BHF MB50-63/MB63-63

6-125mm diameter range

2µm





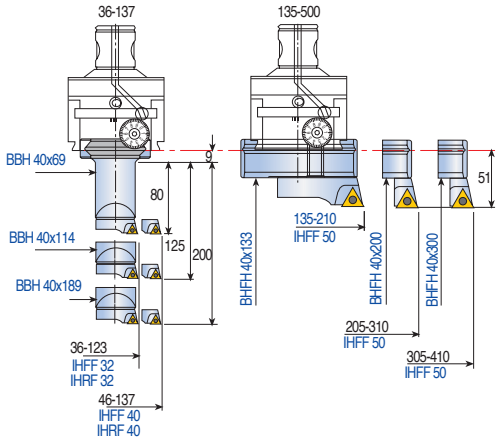
1 BHF MB...-63x87
1 IHAXF 6-8/16
1 IHAXF 8-10/16
1 IHAXF 11-13/16
1 IHAXF 16-18/16
1 IHAXF 22-30/16
1 ADBH 30xD16
1 BBH 30x40
1 BBH 30x70
1 BHFH 30x75
1 IHFF 25
1 IHFF 32
1 IHFF 50
5 TPGX 090202L
1 TPGX 110302L
2 WCGT 020102L
T-8/5
T-6/5

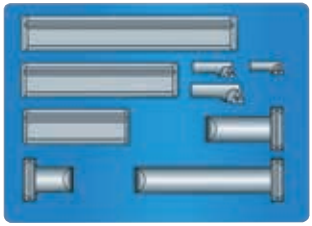
Designation	Dimension (mm)	
	SS	Boring range
KIT BHF MB50-63	MB50	6-125
MB63-63	MB63	6-125

KIT BHFH MB80-125

Kit BHFH MB80-125 holder for BHF MB80-125x114,36-410mm diameter range

2µm





1 BBH 40x69
1 BBH 40x114
1 BBH 40x189
1 BHFH 40x133
1 BHFH 40x200
1 BHFH 40x300
1 IHFF 25
1 IHFF 40
1 IHFF 50

Designation	Dimension (mm)	
	SS	Boring range
KIT BHFH MB80-125	MB50	36-410

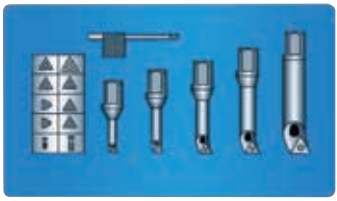
• 10µm direct diametric adjustment and 2µm by a vernier scale

KIT IHAXF 6-30

Kit IHAXF 6-30,6-30mm diameter range

2µm

1 IHAXF 6-8/16
1 IHAXF 8-10/16
1 IHAXF 11-13/16
1 IHAXF 16-18/16
1 IHAXF 22-30/16
5 TPGX 090202L
3 WCGT 020102L
T-8/5
T-6/5

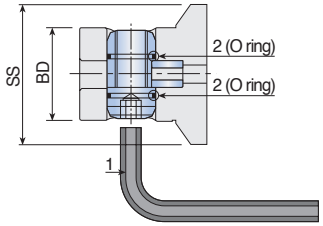


Designation	Dimension (mm)
	Boring range
KIT IHAXF 6-30	6-30

ADVANCE MACHINING
TaeguTec Industry 4.0

MB CLAMP

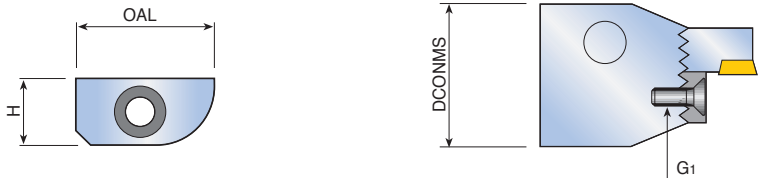
MB system clamp set



Designation	Dimension (mm)			
	SS	BD	1	2
MB CLAMP 16	MB16	10	2.5	-
20	MB20	13	3	-
25	MB25	16	3	-
32	MB32	20	4	ORM 0100-10
40	MB40	25	5	ORM 0130-10
50	MB50	32	6	ORM 0140-10
63-80	MB63-80	42	8	OR 2075

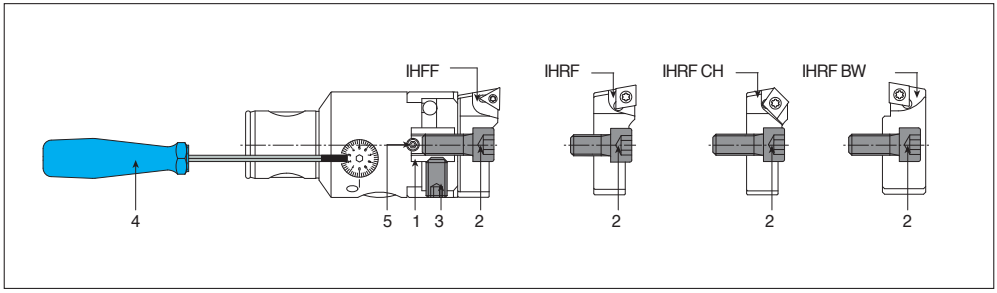
PLT

Cover plate



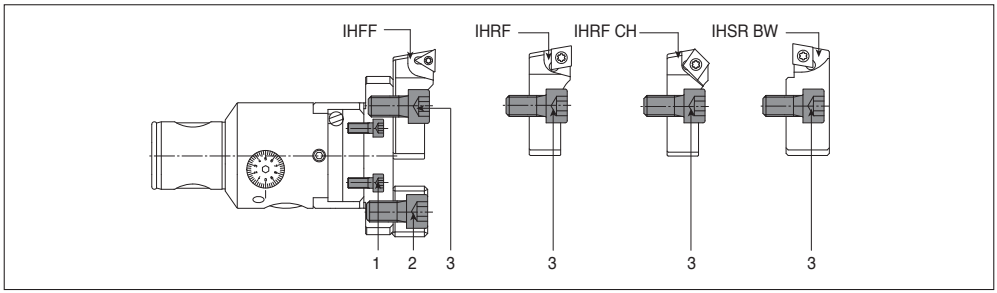
Designation	Dimension (mm)			
	DCONMS	H	OAL	G_1
PLT 16	16	7	14	M 3x8
20	20	8.5	17	M 4x10
25	25	10.2	21	M 4x16
32	32	13.9	28	M 5x20
40	40	17.4	35	M 6x25
50	50	21.4	47.5	M 8x25
63	63	26.4	62	M 10x30
80	80	33.9	82.5	M 12x35

• Protects the serrated faces when a single toolholder is being used.

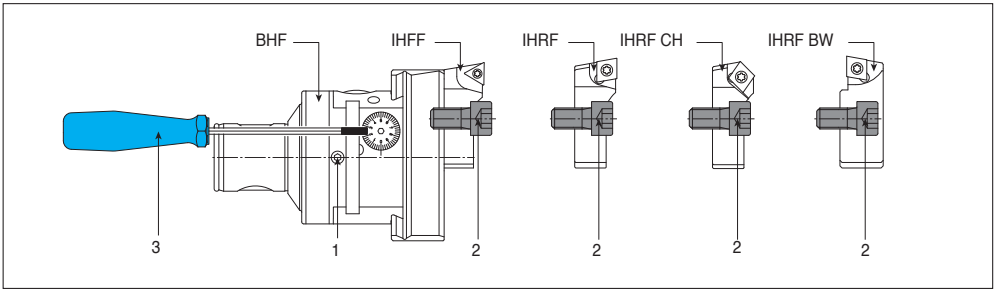


Designation	1	2	3	4	5
BHF...- 16...	-	SR M3x6 DIN 912	-	BH SR 1.5 HANDLE	SR M3x4.5 DIN 913
20...	-	SR M4x8 DIN 912	-	BH SR 1.5 HANDLE	SR M3x4.5 DIN 913
25...	-	SR M5x10 DIN 912	-	BH SR 2.0 HANDLE	SR M4x4 DIN 913
32...	-	SR M6x12 DIN 912	-	BH SR 2.0 HANDLE	SR M4x5 DIN 913
40...	-	SR M8x14 DIN 912	-	BH SR 2.5 HANDLE	SR M5x6 DIN 913 SR
50-60	BH NUT 10	SR M10x25 DIN 912	SR M10x16 DIN 913	BH SR 2.5 HANDLE	SR M5x8 DIN 913

BHF Spare Parts

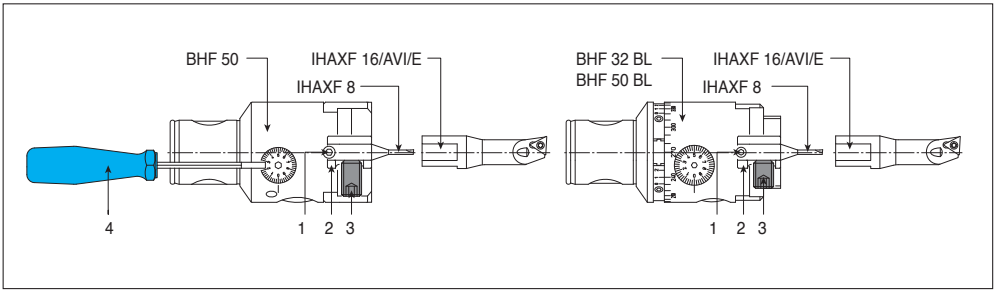


Designation	1	2	3
BHF...- 50...	SR M5x10 DIN 912	SR M10x20 DIN 912	SR M10x25 DIN 912

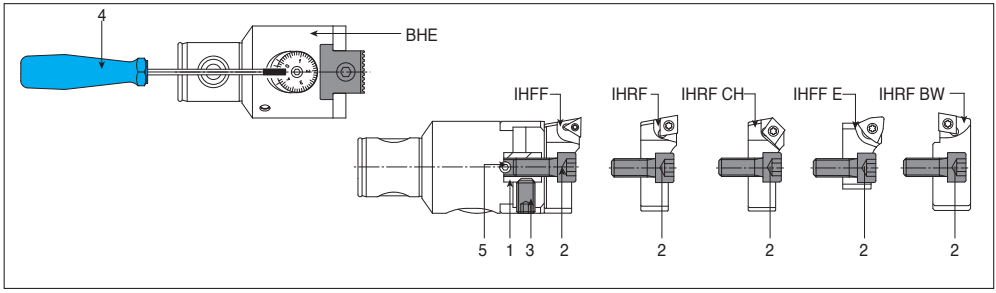


Designation	1	2	3
BHF...- 63...	SR M6x10 DIN 915	SR M10x25 DIN 912	BH SR 3.0 HANDLE
80...	SR M6x14 DIN 915	SR M10x25 DIN 912	BH SR 3.0 HANDLE
125...	SR M6x22 DIN 915	SR M10x25 DIN 912	BH SR 3.0 HANDLE

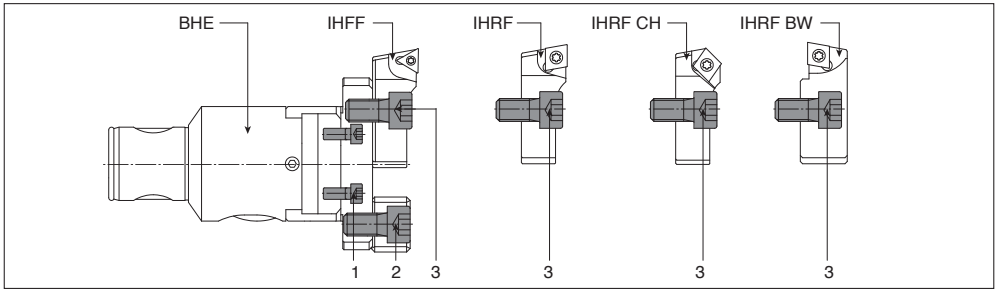
BHF Spare Parts



Designation	1	2	3	4
BHF...- 50...	SR M5x8 DIN 913	SLEEVE D 8-D16	SR M10x10 DIN 912	BH SR 2.5 HANDLE
32... BL	SR M4x5 DIN 913	-	SR M5x8 DIN 913 SR M5x12 DIN 913	BH SR 2.0 HANDLE
50... BL	SR M5x8 DIN 913	SLEEVE D 8-D16	SR M10x10 DIN 913 SR	BH SR 2.5 HANDLE

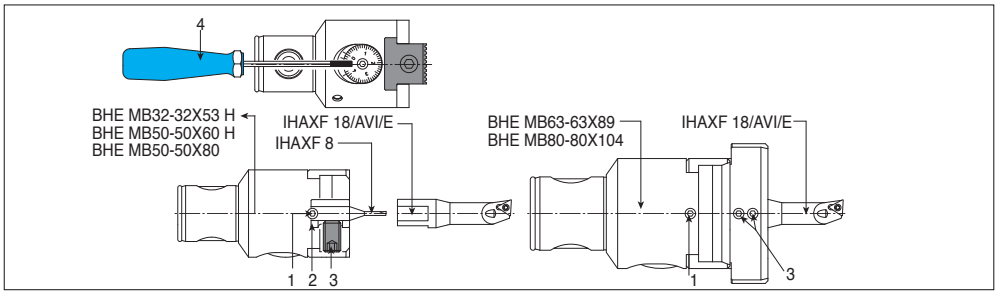


Designation	1	2	3	4	5
BHE MB14-14x30	-	SR M3x6 DIN 912 12.9	-	BH HW 1.5 HANDLE	SR M2.5x3 DIN 913 45H
MB16-16x34	-	SR M3x6 DIN 912 12.9	-	-	SR M3x4 DIN 913 45H
MB20-20x40	-	SR M4x8 DIN 912 12.9	-	-	SR M3x4 DIN 913 45H
MB25-25x50	-	SR M5x10 DIN 912 12.9	-	-	SR M4x6 DIN 913 45H
MB32-32x63	-	SR M6x12 DIN 912 12.9	-	BH HW 2.5 HANDLE	SR M4x6 DIN 913 45H
MB40-40x80	-	SR M8x14 DIN 912 12.9	-	-	SR M5x10 DIN 913 45H
MB50-50x80	BH NUT 10	SR M10x25 DIN 912 12.9	SR M10x16 DIN 913 45H	BH HW 3.0 HANDLE	SR M6x10 DIN 913 45H
MB63-63x89	-	SR M10x20 DIN 912 12.9	-	-	SR M6x10 DIN 913 45H
MB80-80x104	-	SR M10x25 DIN 912 12.9	-	-	SR M8x12 DIN 913 45H



Designation	1	2	3
BHE MB50-50x80	SR M5x12 DIN 912	SR M10x20 DIN 912	SR M10x25 DIN 912
MB63-63x89	SR M5x25 DIN 912	SR M10x20 DIN 912	SR M10x25 DIN 912
MB80-80x104	SR M5x25 DIN 912	SR M10x20 DIN 912	SR M10x25 DIN 912

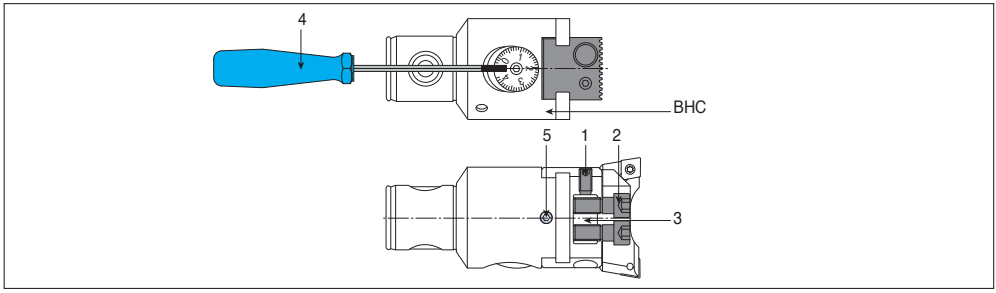
BHE Spare Parts



Designation	1	2	3	4
BHE MB32-32x53 H	SR M5x5 DIN 913	-	SR M5x8 DIN 913	BH SR 2.5 HANDLE
	SR M5x5 DIN 913	-	SR M5x12 DIN 913	BH SR 2.5 HANDLE
MB50-50x60 H	SR M6x8 DIN 913	SLEEVE D 8-D16	SR M10x10 DIN 913	BH SR 3.0 HANDLE
MB50-50x8	SR M6x8 DIN 913	-	SR M10x10 DIN 913	BH SR 3.0 HANDLE
MB63-63x89	SR M6x8 DIN 913	-	SR M6x6 DIN 913	BH SR 3.0 HANDLE
MB80-80x104	SR M6x12 DIN 913	-	SR M6x6 DIN 913	BH SR 3.0 HANDLE

BHC

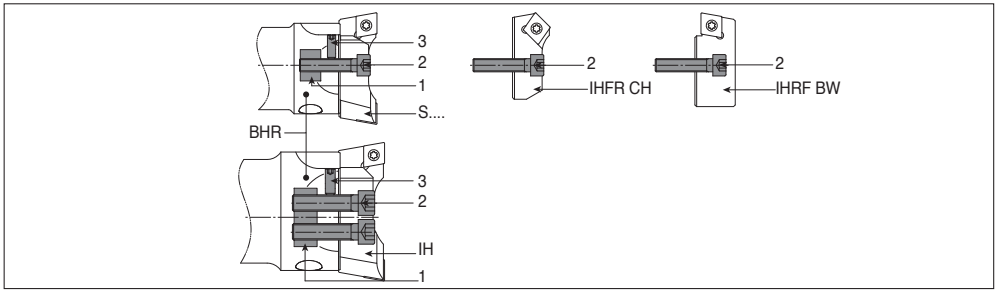
Spare Parts



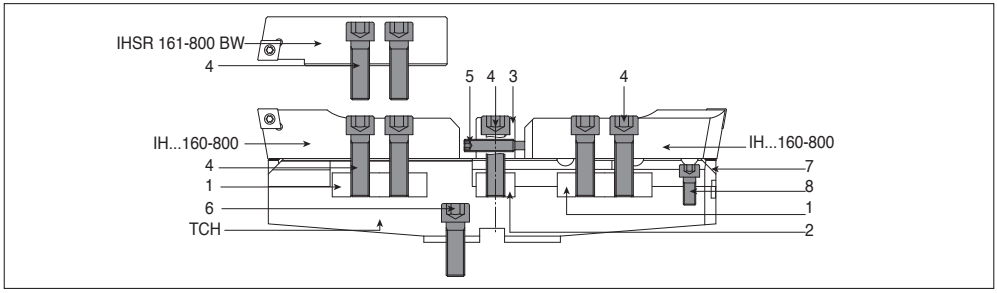
Designation	1	2	3	4	5
BHC MB25-25x57	SR M4x8 DIN 913	BH SR M4x11 DIN 912 PT	BH NUT-BHC MB25	BH SR 2.0 HANDLE	SR M4x5 DIN 913
MB32-32x71	SR M5x10 DIN 913	BH SR M5x12.5 DIN 912 PT	BH NUT-BHC MB32	BH SR 2.5 HANDLE	SR M5x5 DIN 913
MB40-40x90	SR M6x12 DIN 913	BH SR M6x16 DIN 912 PT	BH NUT-BHC MB40	BH SR 3.0 HANDLE	SR M6x6 DIN 913
MB50-50x87	SR M6x14 DIN 913	BH SR M8x20 DIN 912 PT	BH NUT-BHC MB50	BH SR 3.0 HANDLE	SR M6x8 DIN 913
MB63-63x109	SR M6x16 DIN 913	BH SR M10x26 DIN 912 PT	BH NUT-BHC MB63	BH SR 3.0 HANDLE	SR M6x8 DIN 913
MB80-80x130	SR M6x20 DIN 913	BH SR M12x30 DIN 912 PT	BH NUT-BHC MB80	BH SR 3.0 HANDLE	SR M6x12 DIN 913

BHR

Spare Parts



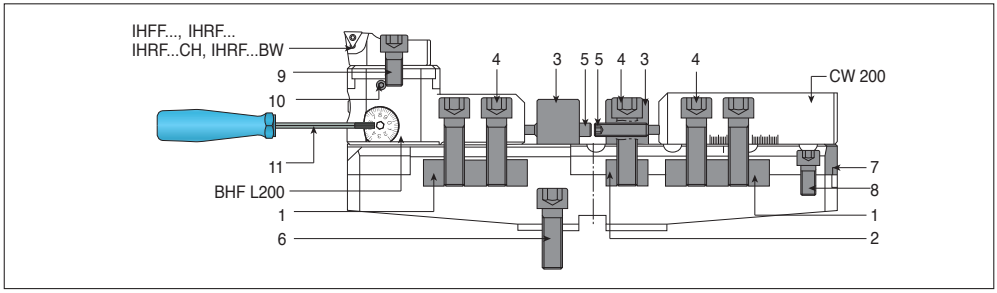
Designation	1	2	3
BHR MB16...16	BH NUT BHR MB16	SR M3x14 DIN 912	SR M3x4 DIN 913
MB20...20	BH NUT BHR MB20	SR M4x15 DIN 912	SR M3x5 DIN 913
MB25...25	BH NUT BHR MB25	SR M4x20 DIN 912	SR M3x8 DIN 913
MB32...32	BH NUT BHR MB32	SR M5x25 DIN 912	SR M4x12 DIN 913
MB40...50	BH NUT BHR MB40	SR M6x30 DIN 912	SR M5x14 DIN 913
MB50...50	BH NUT BHR MB50	SR M8x35 DIN 912	SR M5x12 DIN 913
MB50...63	BH NUT BHR MB63	SR M10x40 DIN 912	SR M6x16 DIN 913
MB63...63	BH NUT BHR MB63	SR M10x40 DIN 912	SR M6x16 DIN 913
MB80...80	BH NUT BHR MB80	SR M12x45 DIN 912	SR M8x25 DIN 913



	Designation	1	2	3	4
TCH	**200-300-400**	BH TCH NUT A	BH TCH NUT B	BH TCH NUT C	SR M12x40 DIN 912
	500-600-700	BH TCH NUT A	BH TCH NUT B	BH TCH NUT C	SR M12x40 DIN 912

	Designation	5	6	7	8
TCH	**200-300**	SR M8x40 DIN 915	SR M12x35 DIN 912	BH SERRATED PLATE 200-300	SR M8x25 DIN 912
	400	SR M8x40 DIN 915	SR M12x35 DIN 912	BH SERRATED PLATE 400-700	SR M8x20 DIN 912
	500-600-700	SR M8x40 DIN 915	SR M16x50 DIN 912	BH SERRATED PLATE 400-700	SR M8x25 DIN 912

TCH Spare Parts

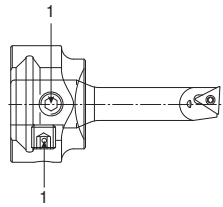


	Designation	1	2	3	4	5
TCH	**200-300-400**	BH TCH NUT A	BH TCH NUT B	BH TCH NUT C	SR M12x40 DIN 912	SR M8x40 DIN 915
	500-600-700	BH TCH NUT A	BH TCH NUT B	BH TCH NUT C	SR M12x40 DIN 912	SR M8x40 DIN 915

	Designation	6	7	8	9	10	11
TCH	**200-300**	SR M12x35 DIN912	BH SERRATED PLATE 200-300	SR M8x25 DIN912	SR M10x20 DIN912	SR M6x8 DIN915	BH SR 3.0 HANDLE
	400	SR M12x35 DIN912	BH SERRATED PLATE 400-700	SR M8x20 DIN912	SR M10x20 DIN912	SR M6x8 DIN915	BH SR 3.0 HANDLE
	500-600-700	SR M16x50 DIN912	BH SERRATED PLATE 400-700	SR M8x25 DIN912	SR M10x20 DIN912	SR M6x8 DIN915	BH SR 3.0 HANDLE

ADBH

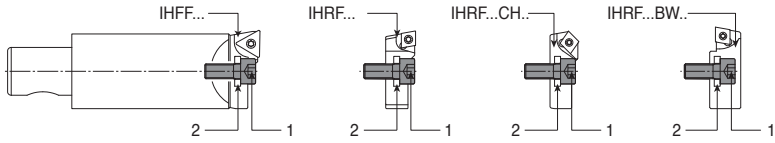
Spare Parts



Designation	1
ADBH 30xD16	SR M45x8 DIN 913

BBH-D

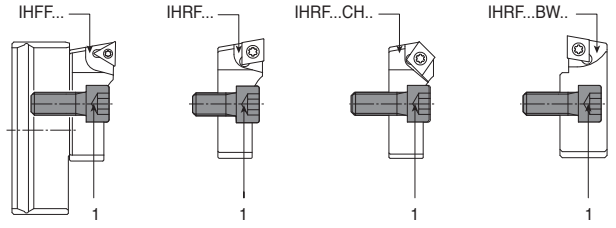
Spare Parts



Designation	1	2
BBH D16x63	SR M5x12 DIN 912	WASHER DIN 125A M5
D16x105	SR M5x12 DIN 912	WASHER DIN 125A M5

BHFH

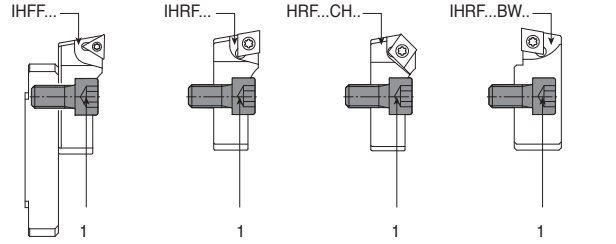
Spare Parts



Designation	1
BHFH 30x75	SR M10x18 DIN 912
40x133	SR M10x18 DIN 912
30x93	SR M10x18 DIN 912
40x200	SR M10x25 DIN 912
30x135	SR M10x25 DIN 912
40x300	SR M10x25 DIN 912
40x400	SR M10x25 DIN 912

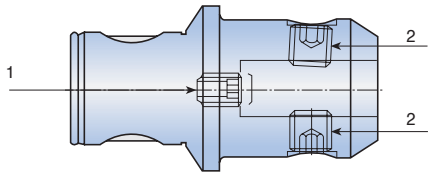
BHEH

Spare Parts



Designation	1
BHEH 24x75	SR M10x20 DIN 912
28x80	SR M10x25 DIN 912
28x108	SR M10x25 DIN 912
28x148	SR M10x25 DIN 912

Screws for EMH

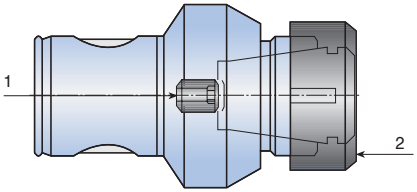


Designation	Screw #1	Screw # 2
EMH **MB50-6**	EMH 50-6 SCREW	M6x10 EM SCREW
MB50-8	EMH 50-8 SCREW	M8x10 EM SCREW
MB50-10	EMH 50-10 SCREW	M10x12 EM SCREW
MB50-12	EMH 50-12 SCREW	M12x16 EM SCREW
MB50-14	EMH 50-14 SCREW	M14x16 EM SCREW
MB50-16	EMH 50-16 SCREW	M14x16 EM SCREW
MB50-20	EMH 50-20 SCREW	M16x16 EM SCREW
MB63-16	EMH 63-16 SCREW	M14x16 EM SCREW
MB63-20	EMH 63-20 SCREW	M16x16 EM SCREW
MB63-25	EMH 63-25 SCREW	M18x20 EM SCREW
MB63-32	EME 63-32 SCREW	M18x20 EM SCREW
MB80-40	EMH 80-40 SCREW	M20x20 EM SCREW

CC MB...-ER...

Spare Parts

Components for CC

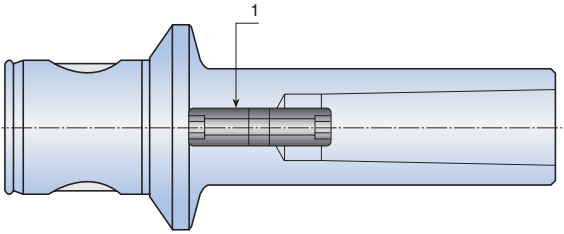


	Designation	1	2	Wrench
CC	**MB16-ER11M**	CC MB16 SCREW	NUT ER11 MINI	WRENCH ER11 MINI
	MB20-ER16M	CC MB20 SCREW	NUT ER16 MINI	WRENCH ER16 MINI
	MB25-ER20M	CC MB25 SCREW	NUT ER20 MINI	WRENCH ER20 MINI
	MB32-ER25M	CC MB32 SCREW	NUT ER25 MINI	WRENCH ER25 MINI
	MB40-ER25	CC MB40 SCREW	NUT ER25 TOP	WRENCH ER25
	MB50-ER25	CC MB50 SCREW	NUT ER25 TOP	WRENCH ER25
	MB50-ER32	CC MB50 SCREW	NUT ER32 TOP	WRENCH ER32
	MB63-ER32	CC MB63 SCREW	NUT ER32 TOP	WRENCH ER32
	MB63-ER40	CC MB63 SCREW	NUT ER40 TOP	WRENCH ER40

AMT MB...-MT

Spare Parts

Screw for shanks: Morse taper tang AMT

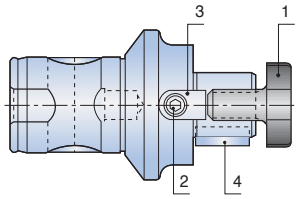


	Designation	1
AMT	**MB50-MT2**	AMT MT2-SCREW
	MB50-MT3	AMT MT3-SCREW
	MB63-MT3	AMT MT3-SCREW
	MB63-MT4	AMT MT4-SCREW

SMH MB

Spare Parts

Screw for shell mill holders SMH



Designation		1	2	3	4
SMH	**MB40-22**	M10 CLAMP SCREW SEM 22	DOG DRIVE SMH 22	KEY SMH 22	M4x10 SMH KEY SCREW
	MB50-16	M 8 CLAMP SCREW SEM 16	DOG DRIVE SMH 16	KEY SMH 16	M3x 8 SMH KEY SCREW
	MB50-22	M10 CLAMP SCREW SEM 22	DOG DRIVE SMH 22	KEY SMH 22	M4x10 SMH KEY SCREW
	MB50-27	M12 CLAMP SCREW SEM 27	DOG DRIVE SMH 27	KEY SMH 27	M5x12 SMH KEY SCREW
	MB50-32	M16 CLAMP SCREW SEM 32	DOG DRIVE SMH 32	KEY SMH 32	M6x16 SMH KEY SCREW
	MB63-27	M12 CLAMP SCREW SEM 27	DOG DRIVE SMH 27	KEY SMH 27	M5x12 SMH KEY SCREW
	MB63-32	M16 CLAMP SCREW SEM 32	DOG DRIVE SMH 32	KEY SMH 32	M6x16 SMH KEY SCREW
	MB80-32	M16 CLAMP SCREW SEM 32	DOG DRIVE SMH 32	KEY SMH 32	M6x16 SMH KEY SCREW
	MB80-40	M20 CLAMP SCREW SEM 40	DOG DRIVE SMH 40	KEY SMH 40	M6x18 SMH KEY SCREW

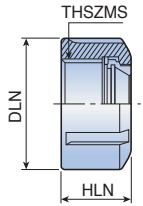
NUT ER ... TOP

Spare Parts

ER - Top™ clamping nut

DIN 6499

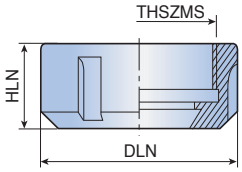




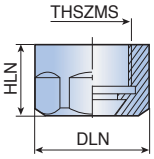
Designation		Dimension (mm)		
		DLN	HLN	THSZMS
NUT	**ER16 TOP**	28	17	M22x1.5
	ER20 TOP	34	19	M25x1.5
	ER25 TOP	42	20	M32x1.5
	ER32 TOP	50	22	M40x1.5
	ER40 TOP	63	25	M50x1.5

NUT ER-MINI/UM

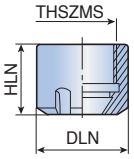
ER clamping nut



UM ER 25,32,40,50



UM ER 16,20

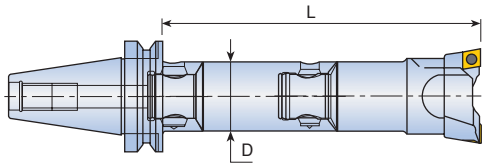


UM ER 11,16,20,25 MINI

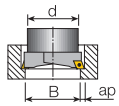
Designation	Dimension (mm)		
	DLN	HLN	THSZMS
NUT ER11 MINI	16	10.8	M13x0.75
ER11 UM	19	11.3	M14x 0.75
ER16 MINI	22	18	M19x1.0
ER16 UM	28	17	M22x1.5
ER20 MINI	28	19	M24x1.0
ER20 UM	34	19	M25x1.5
ER25 MINI	35	20	M30x1.5
ER25 UM	42	20	M32x1.5
ER32 UM	50	22	M40x1.5
ER40 UM	63	25	M50x1.5
ER50 UM	78	55	M64x2.0

Recommended Cutting Conditions

BHR rough boring heads



Cutting depth



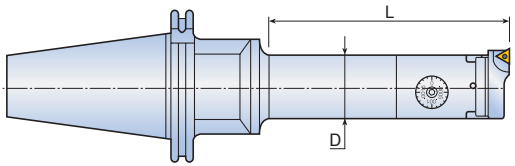
It's advisable to start with
B hole≥boring bar diameter d

B Working range	ap (mm) Steel	ap (mm) Cast iron, Aluminum
18-28	1.5-2	2-2.5
28-50	2-3	2.5-3.5
50-68	3-4	3.5-5
68-200	4-5	5-7
200-500	5-6	6-8

• In case of a single or a stepped boring cutter configuration, only half the feed should be applied

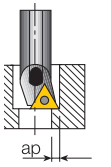
Recommended Cutting Conditions

Fine boring heads



Stability ••• – Good
•• – Normal
• – Poor

Material	L/D	Stability	Cutting speed (Vc=m/min)	Feed f=mm/rev Insert radius R=0.2	Feed f=mm/rev Insert radius R=0.4	Cutting depth (ap)
Carbon steel HB≤200	L/D=2.5	•••	200-300	0.05-0.08	0.08-0.10	
	L/D=4	••	160-250	0.05-0.08	0.08-0.10	
	L/D=6.3	•	70-100	0.05-0.08	-	
Carbon steel HB>200	L/D=2.5	•••	160-250	0.05-0.08	0.08-0.10	
	L/D=4	••	150-200	0.05-0.08	0.08-0.10	
	L/D=6.3	•	70-100	0.05-0.08	-	
Stainless steel	L/D=2.5	•••	150-200	0.05-0.08	0.08-0.10	
	L/D=4	••	120-180	0.08-0.10	0.08-0.10	
	L/D=6.3	•	70-80	0.05-0.08	0.08-0.10	
Alloyed steel HB 480-550	L/D=2.5	•••	120-160	0.05-0.08	0.08-0.10	
	L/D=4	••	100-140	0.05-0.08	0.08-0.10	
	L/D=6.3	•	70-100	0.05-0.08	-	
Cast iron	L/D=2.5	•••	120-160	0.05-0.08	0.08-0.10	
	L/D=4	••	100-140	0.05-0.08	0.08-0.10	
	L/D=6.3	•	70-100	0.05-0.08	-	
Aluminum	L/D=2.5	•••	300-400	0.05-0.08	0.08-0.10	
	L/D=4	••	250-350	0.05-0.08	0.08-0.10	
	L/D=6.3	•	100-150	0.05-0.08	-	



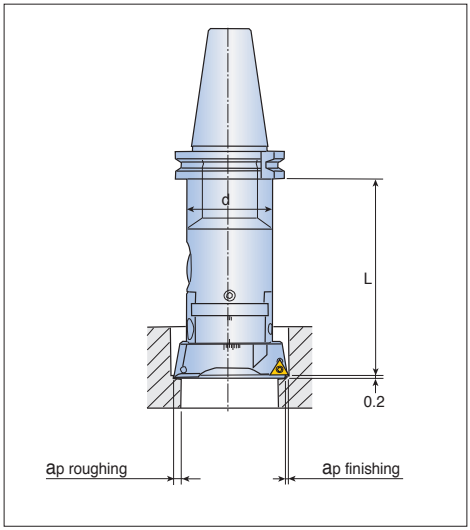
Recommended Cutting Conditions

Stability ••• – Good
•• – Normal
• – Poor

Boring operations with BHC combi rough and fine

Material	L/D	Stability	Cutting speed (Vc=m/min)	Feed f=mm/rev Insert radius R=0.2	Feed f=mm/rev Insert radius R=0.4	Cutting depth (mm)			
Carbon steel HB<200	L/D=2.5 L/D=4 L/D=6.3	••• •• •	160-250 120-180 70-100	0.1-0.2 0.1-0.2 * 0.1-0.15	0.1-0.2 0.1-0.2 0.1-0.2	0.15-0.3	1.5	2	2.5
Carbon steel HB>200	L/D=2.5 L/D=4 L/D=6.3	••• •• •	140-200 100-160 70-100	0.1-0.2 0.1-0.2 * 0.1-0.15	0.1-0.2 0.1-0.2 0.1-0.2	0.15-0.3	1.5	2	2.5
Stainless steel AISI 304-316	L/D=2.5 L/D=4 L/D=6.3	••• •• •	100-140 80-110 60-90	0.1-0.2 0.1-0.2 * 0.1-0.15	0.1-0.2 0.1-0.2 0.1-0.2	0.15-0.3	1.5	2	2.5
Cast iron	L/D=2.5 L/D=4 L/D=6.3	••• •• •	120-160 90-120 60-90	0.1-0.2 0.1-0.2 * 0.1-0.15	0.1-0.2 0.1-0.2 0.1-0.2	0.15-0.3	2	2.5	3
Aluminum	L/D=2.5 L/D=4 L/D=6.3	••• •• •	250-350 160-250 100-150	0.1-0.2 0.1-0.2 * 0.1-0.15	0.1-0.2 0.1-0.2 0.1-0.2	0.15-0.3	2	2.5	3

- *Only for finishing Inserts.
- Use inserts with the same corner radii for both roughing and finishing inserts.



VC Cutting speed (m/min)
D Diameter of workpiece (m/min)
n Number of revolutions / min' (rev./min)
Vf Feed rate (mm/min.)
Fn Feed (mm/rev)
∏ 3.14

$$VC = \frac{\pi \cdot D \cdot n}{1000}$$

$$n = \frac{VC\ 1000}{\pi \cdot D}$$

$$Vf = n \cdot fn$$

Recommended Cutting Conditions

Stability ••• – Good
•• – Normal
• – Poor

BHR rough boring cutting data

ap(mm), R(radius), Vc(m/min), f(mm/rev)

ISO	Workpiece material	Hardness HB	Overhang L/D		Boring range D18-28		Boring range D28-50		Boring range D50-68	
				ap (mm)	0.5-1.2	1.2-2.5	0.8-1.5	1.5-2.5	0.8-1.5	1.5-3.0
				R (Radius)	0.2	0.4	0.2-0.4	0.4	0.2-0.4	0.4-0.8
P	**Carbon steel**	HB<200	2.5 •••	Vc	150-180	120-150	160-200	140-170	160-200	140-180
				f	0.1-0.2	0.08-0.2	0.15-0.2	0.1-0.175	0.15-0.25	0.08-0.2
			4 •••	Vc	140-160	100-140	160-180	120-150	160-180	120-150
				f	0.1-0.18	0.08-0.15	0.1-0.12	0.08-0.1	0.1-0.12	0.08-0.1
			6.3 •••	Vc	60-80	40-60	60-90	50-60	70-90	50-70
				f	0.06-0.12	0.06-0.1	0.06-0.12	0.06-0.1	0.06-0.1	0.06-0.1
	Carbon steel	HB>200	2.5 •••	Vc	130-160	100-130	140-180	120-160	140-180	120-160
				f	0.08-0.15	0.08-0.12	0.08-0.2	0.06-0.12	0.08-0.25	0.08-0.18
			4 •••	Vc	110-140	80-110	100-140	80-120	100-140	80-120
				f	0.08-0.12	0.08-0.1	0.08-0.15	0.06-0.15	0.08-0.2	0.06-0.15
			6.3 •••	Vc	70-90	60-70	80-100	60-80	80-100	60-80
				f	0.08-0.1	0.06-0.08	0.06-0.1	0.06-0.08	0.08-0.15	0.06-0.1

ISO	Workpiece material	Hardness HB	Overhang L/D		Boring range D68-120		Boring range D120-200		Boring range D200-500	
				ap (mm)	0.8-1.5	1.5-3.5	0.8-2.0	2.0-3.5	0.8-1.5	2.0-4.0
				R (Radius)	0.2-0.4	0.4-0.8	0.2-0.4	0.4-0.8	0.2-0.4	0.4-0.8
P	**Carbon steel**	HB<200	2.5 •••	Vc	160-220	150-180	180-250	160-200	220-280	200-220
				f	0.15-0.25	0.08-0.2	0.15-0.3	0.1-0.2	0.15-0.3	0.1-0.15
			4 •••	Vc	140-180	120-150	160-200	140-180	N.R.	N.R.
				f	0.08-0.2	0.08-0.15	0.1-0.2	0.08-0.15		
			6.3 •••	Vc	70-100	50-70	N.R.	N.R.	N.R.	N.R.
				f	0.06-0.1	0.06-0.1				
	Carbon steel	HB>200	2.5 •••	Vc	140-180	120-160	150-170	100-140	100-140	80-120
				f	0.15-0.3	0.12-0.2	0.15-0.25	0.1-0.2	0.15-0.3	0.1-0.2
			4 •••	Vc	120-150	100-140	100-130	80-110	N.R.	N.R.
				f	0.1-0.2	0.1-0.18	0.08-0.2	0.08-0.12		
			6.3 •••	Vc	80-100	60-80	N.R.	N.R.	N.R.	N.R.
				f	0.08-0.12	0.08-0.12				

• N.R. = Not recommended
• In case of a single or a stepped boring cutter configuration, only half the feed should be applied

Recommended Cutting Conditions

Stability ••• – Good
•• – Normal
• – Poor

BHR rough boring cutting data

ap(mm), R(radius), Vc(m/min), f(mm/rev)

ISO	Workpiece material	Hardness HB	Overhang L/D		Boring range D18-28		Boring range D28-50		Boring range D50-68	
				ap (mm)	0.5-1.0	1.0-1.8	0.5-1.0	1.0-1.8	0.5-1.2	1.2-2.0
				R (Radius)	0.2	0.4	0.2-0.4	0.4	0.2-0.4	0.4-0.8
P	**Alloyed steel**	HB<200	2.5 •••	Vc	140-160	90-120	150-180	100-130	160-200	140-180
				f	0.08-0.18	0.08-0.15	0.08-0.2	0.08-0.18	0.1-0.25	0.1-0.15
			4 ••	Vc	100-130	70-100	110-150	90-120	140-180	100-130
				f	0.08-0.15	0.06-0.12	0.08-0.18	0.08-0.15	0.8-0.18	0.08-0.12
			6.3 •	Vc	80-100	60-90	80-100	70-90	100-140	80-120
				f	0.08-0.15	0.06-0.1	0.06-0.12	0.06-0.12	0.6-0.15	0.08-0.1
	Alloyed steel	HB>200	2.5 •••	Vc	130-150	120-140	130-150	120-140	140-170	120-150
				f	0.08-0.18	0.06-0.15	0.08-0.18	0.06-0.15	0.08-0.2	0.08-0.18
			4 ••	Vc	100-130	100-120	100-130	100-120	120-150	100-120
				f	0.08-0.15	0.06-0.13	0.08-0.15	0.06-0.13	0.08-0.18	0.08-0.15
			6.3 •	Vc	80-100	70-90	80-100	70-90	100-120	70-90
				f	0.08-0.12	0.06-0.11	0.08-0.12	0.06-0.11	0.08-0.12	0.06-0.11

ISO	Workpiece material	Hardness HB	Overhang L/D		Boring range D68-120		Boring range D120-200		Boring range D200-500	
				ap (mm)	0.8	2.5	0.8-2.0	2.0-3.5	0.8-2.0	2.0-4.0
				R (Radius)	0.2-0.4	0.4-0.8	0.2-0.4	0.4-0.8	0.2-0.4	0.4-0.8
P	**Alloyed steel**	HB<200	2.5 •••	Vc	160-220	140-180	160-220	140-180	160-220	140-180
				f	0.1-0.3	0.1-0.25	0.1-0.3	0.1-0.25	0.1-0.35	0.1-0.3
			4 ••	Vc	150-200	120-160	120-160	120-160	N.R.	N.R.
				f	0.1-0.2	0.08-0.18	0.1-0.2	0.08-0.18		
			6.3 •	Vc	100-140	100-140	N.R.	N.R.	N.R.	N.R.
				f	0.08-0.18	0.08-0.15				
	Alloyed steel	HB>200	2.5 •••	Vc	160-200	140-180	140-200	140-180	140-200	140-180
				f	0.1-0.3	0.01-0.25	0.01-0.35	0.01-0.3	0.01-0.35	0.01-0.3
			4 ••	Vc	140-160	120-140	150-180	120-140	N.R.	N.R.
				f	0.08-0.2	0.08-0.15	0.08-0.12	0.08-0.12		
			6.3 •	Vc	100-120	70-90	N.R.	N.R.	N.R.	N.R.
				f	0.08-0.16	0.08-0.12				

• N.R. = Not recommended
• In case of a single or a stepped boring cutter configuration, only half the feed should be applied

Recommended Cutting Conditions

Stability ••• – Good
•• – Normal
• – Poor

BHR rough boring cutting data

ap(mm), R(radius), Vc(m/min), f(mm/rev)

ISO	Workpiece material	Hardness HB	Overhang L/D		Boring range D18-28		Boring range D28-50		Boring range D50-68	
				ap (mm)	0.5-1.0	1.0-1.8	0.5-1.0	1.0-1.8	0.5-1.2	1.2-2.0
				R (Radius)	0.2	0.4	0.2-0.4	0.4	0.2-0.4	0.4-0.8
M	**Stainless steel**	Ferritic & martensitic	2.5 •••	Vc	100-150	110-130	120-160	100-150	120-160	110-160
				f	0.08-0.15	0.06-0.12	0.08-0.18	0.06-0.12	0.08-0.25	0.08-0.18
			4 ••	Vc	90-130	90-120	100-140	90-140	100-150	80-120
				f	0.08-0.12	0.06-0.1	0.08-0.12	0.06-0.1	0.08-0.18	0.08-0.12
			6.3 •	Vc	60-90	50-70	60-90	50-70	70-100	50-70
				f	0.06-0.1	0.06-0.1	0.06-0.12	0.06-0.1	0.06-0.15	0.08-0.1
	Stainless steel	Austenitic	2.5 •••	Vc	110-130	100-130	120-150	110-140	110-160	100-150
				f	0.08-0.15	0.06-0.12	0.08-0.18	0.06-0.12	0.08-0.25	0.06-0.12
			4 ••	Vc	80-110	80-110	90-130	90-120	100-150	90-130
				f	0.08-0.12	0.06-0.1	0.08-0.12	0.06-0.1	0.08-0.18	0.06-0.1
			6.3 •	Vc	60-90	50-70	60-90	50-70	70-100	50-70
				f	0.06-0.1	0.06-0.1	0.06-0.12	0.06-0.1	0.06-0.15	0.06-0.1
	Stainless steel cast	Ferritic & martensitic	2.5 •••	Vc	90-130	100-130	120-150	110-140	120-160	100-150
				f	0.08-0.15	0.06-0.12	0.08-0.18	0.06-0.12	0.08-0.25	0.06-0.12
			4 ••	Vc	70-110	80-110	90-130	90-120	100-150	90-130
				f	0.08-0.12	0.06-0.1	0.08-0.12	0.06-0.1	0.08-0.18	0.06-0.1
			6.3 •	Vc	60-90	50-70	60-90	50-70	70-100	50-70
				f	0.06-0.1	0.06-0.1	0.06-0.12	0.06-0.1	0.06-0.15	0.06-0.1
	Stainless steel cast	Austenitic	2.5 •••	Vc	80-120	70-110	100-150	90-140	110-150	100-150
				f	0.08-0.15	0.06-0.12	0.08-0.18	0.06-0.12	0.08-0.25	0.06-0.12
			4 ••	Vc	70-100	70-100	80-130	70-120	90-140	90-130
				f	0.08-0.12	0.06-0.1	0.08-0.12	0.06-0.1	0.08-0.18	0.06-0.1
			6.3 •	Vc	60-90	50-70	60-90	50-70	70-100	50-70
				f	0.06-0.1	0.06-0.1	0.06-0.12	0.06-0.1	0.06-0.15	0.06-0.1

ISO	Workpiece material	Hardness HB	Overhang L/D		Boring range D68-120		Boring range D120-200		Boring range D200-500	
				ap (mm)	0.8-1.8	1.8-2.5	0.8-2.0	2.0-3.0	0.8-2.0	2.0-3.5
				R (Radius)	0.2-0.4	0.4-0.8	0.2-0.4	0.4-0.8	0.2-0.4	0.2-0.4
M	**Stainless steel**	Ferritic & martensitic	2.5 •••	Vc	130-220	120-200	140-220	120-180	150-220	120-200
				f	0.08-0.3	0.08-0.25	0.08-0.3	0.08-0.25	0.08-0.3	0.08-0.25
			4 ••	Vc	100-160	90-140	120-180	90-140	N.R.	N.R.
				f	0.08-0.25	0.08-0.18	0.08-0.25	0.08-0.18		
			6.3 •	Vc	70-100	50-70	N.R.	N.R.	N.R.	N.R
				f	0.08-0.2	0.08-0.15				
	Stainless steel	Austenitic	2.5 •••	Vc	120-200	100-160	120-200	100-160	120-200	100-180
				f	0.08-0.3	0.08-0.25	0.08-0.3	0.08-0.25	0.08-0.3	0.08-0.25
			4 ••	Vc	100-150	90-140	100-160	90-140	N.R.	N.R.
				f	0.08-0.25	0.08-0.18	0.08-0.25	0.08-0.18	0.08-0.18	0.06-0.1
			6.3 •	Vc	70-100	50-70	N.R.	N.R.	N.R.	N.R.
				f	0.08-0.2	0.08-0.15				
	Stainless steel cast	Ferritic & martensitic	2.5 •••	Vc	130-200	120-180	140-200	120-160	140-200	120-180
				f	0.08-0.3	0.08-0.25	0.08-0.3	0.08-0.25	0.08-0.3	0.08-0.25
			4 ••	Vc	110-150	90-150	100-160	90-140	N.R.	N.R.
				f	0.08-0.25	0.08-0.18	0.08-0.25	0.08-0.18		
			6.3 •	Vc	70-100	50-70	N.R.	N.R.	N.R.	N.R.
				f	0.08-0.2	0.08-0.15				
	Stainless steel cast	Austenitic	2.5 •••	Vc	130-180	120-180	120-200	100-160	120-200	100-180
				f	0.08-0.3	0.08-0.25	0.08-0.3	0.08-0.25	0.08-0.3	0.08-0.25
			4 ••	Vc	100-140	90-140	100-160	90-140	N.R.	N.R.
				f	0.08-0.25	0.08-0.18	0.08-0.25	0.08-0.18		
			6.3 •	Vc	70-190	50-70	N.R.	N.R.	N.R.	N.R.
				f	0.08-0.2	0.08-0.15				

• N.R. = Not recommended
• In case of a single or a stepped boring cutter configuration, only half the feed should be applied

Recommended Cutting Conditions

Stability ••• – Good
•• – Normal
• – Poor

BHR rough boring cutting data

ap(mm), R(radius), Vc(m/min), f(mm/rev)

ISO	Workpiece material	Hardness HB	Overhang L/D		Boring range D18-28		Boring range D28-50		Boring range D50-68	
				ap (mm)	0.5-1.0	1.0-1.8	0.5-1.0	1.0-1.8	0.5-1.2	1.2-2.0
				R (Radius)	0.2-0.4	0.4	0.2-0.4	0.4	0.2-0.4	0.4-0.8
K	**Gray cast iron GG 10-25**	HB<200	2.5 •••	Vc	120-160	100-140	120-180	110-150	120-180	110-150
				f	0.06-0.15	0.06-0.18	0.06-0.15	0.06-0.12	0.08-0.2	0.08-0.12
			4 ••	Vc	100-140	80-120	100-150	80-120	100-150	80-120
				f	0.06-0.12	0.06-0.1	0.06-0.12	0.06-0.1	0.08-0.12	0.08-0.1
			6.3 •	Vc	70-100	60-90	70-100	60-90	70-100	60-90
				f	0.06-0.1	0.06-0.1	0.06-0.1	0.06-0.1	0.08-0.1	0.08-0.1
	Gray cast iron GG 25-40		2.5 •••	Vc	140-200	140-200	140-220	160-250	180-220	200-280
				f	0.06-0.15	0.06-0.18	0.06-0.15	0.06-0.18	0.08-0.2	0.1-0.25
			4 ••	Vc	120-160	120-160	120-180	140-200	140-180	180-220
				f	0.06-0.12	0.06-0.14	0.06-0.12	0.06-0.14	0.08-0.12	0.08-0.2
			6.3 •	Vc	70-100	60-90	70-100	60-90	60-100	60-120
				f	0.06-0.1	0.06-0.1	0.06-0.1	0.06-0.1	0.08-0.1	0.08-0.1
	Cast iron GGG	Spheroidal & graphite	2.5 •••	Vc	120-180	120-180	120-200	140-220	180-220	180-240
				f	0.06-0.15	0.06-0.18	0.06-0.15	0.06-0.18	0.08-0.18	0.1-0.2
			4 ••	Vc	120-160	120-160	120-180	140-200	140-200	160-220
				f	0.06-0.12	0.06-0.14	0.06-0.12	0.06-0.14	0.08-0.12	0.08-0.18
			6.3 •	Vc	60-100	60-90	60-100	60-90	60-90	60-100
				f	0.06-0.1	0.06-0.1	0.06-0.1	0.06-0.1	0.08-0.1	0.08-0.1

ISO	Workpiece material	Hardness HB	Overhang L/D		Boring range D18-28		Boring range D28-50		Boring range D50-68	
				ap (mm)	0.8-1.8	1.8-2.5	0.8-2.0	2.0-3.0	0.8-2.0	2.0-3.5
				R (Radius)	0.2-0.4	0.4-0.8	0.2-0.4	0.4-0.8	0.2-0.4	0.4-0.8
K	**Gray cast iron GG 10-25**	HB<200	2.5 •••	Vc	120-200	110-150	150-250	180-280	150-250	180-280
				f	0.08-0.25	0.08-0.3	0.08-0.25	0.08-0.35	0.08-0.25	0.08-0.35
			4 ••	Vc	100-150	80-120	120-170	120-170	N.R.	N.R.
				f	0.08-0.18	0.08-0.2	0.08-0.18	0.08-0.25		
			6.3 •	Vc	70-100	60-90	N.R.	N.R.	N.R.	N.R.
				f	0.08-0.15	0.08-0.12				
	Gray cast iron GG 25-40		2.5 •••	Vc	50-300	250-350	250-350	250-350	250-350	250-350
				f	0.12-0.35	0.12-0.35	0.15-0.3	0.15-0.4	0.15-0.3	0.15-0.4
			4 ••	Vc	200-270	230-300	200-300	200-270	N.R.	N.R.
				f	0.1-0.25	0.12-0.3	0.15-0.3	0.15-0.35		
			6.3 •	Vc	70-150	60-120	N.R.	N.R.	N.R.	N.R.
				f	0.1-0.15	0.12-0.25				
	Cast iron GGG	Spheroidal & graphite	2.5 •••	Vc	200-240	200-280	200-280	220-300	220-300	220-300
				f	0.12-0.3	0.12-0.3	0.15-0.3	0.15-0.35	0.15-0.3	0.15-0.35
			4 ••	Vc	160-220	180-240	180-250	200-270	N.R.	N.R.
				f	0.1-0.2	0.12-0.25	0.15-0.25	0.15-0.35		
			6.3 •	Vc	60-100	60-100	N.R.	N.R.	N.R.	N.R.
				f	0.1-0.15	0.12-0.2				

• N.R. = Not recommended
• In case of a single or a stepped boring cutter configuration, only half the feed should be applied

Recommended Cutting Conditions

Stability ••• – Good
•• – Normal
• – Poor

BHR rough boring cutting data

ap(mm), R(radius), Vc(m/min), f(mm/rev)

ISO	Workpiece material	Hardness HB	Overhang L/D		Boring range D18-28		Boring range D28-50		Boring range D50-68	
				ap (mm)	0.5-1.5	1.5-2.5	0.5-1.5	1.5-2.5	0.5-2.0	1.2-3.0
				R (Radius)	0.2-0.4	0.4	0.2-0.4	0.4	0.2-0.4	0.4-0.8
N	**Aluminum/ Cast**	>12si	2.5 •••	Vc	200-300	240-350	200-300	240-350	200-300	240-350
				f	0.06-0.2	0.06-0.25	0.06-0.2	0.06-0.25	0.06-0.25	0.06-0.3
			4 ••	Vc	150-220	150-220	150-220	150-220	150-220	150-220
				f	0.06-0.2	0.06-0.2	0.06-0.2	0.06-0.2	0.06-0.2	0.06-0.2
			6.3 •	Vc	60-100	60-100	60-100	60-100	60-100	60-100
				f	0.06-0.1	0.06-0.1	0.06-0.1	0.06-0.1	0.06-0.1	0.06-0.1
	Aluminum/ Cast	<12si	2.5 •••	Vc	180-250	220-280	180-250	220-280	180-250	220-280
				f	0.06-0.2	0.06-0.25	0.06-0.25	0.06-0.25	0.06-0.25	0.06-0.3
			4 ••	Vc	120-220	120-220	120-220	120-220	120-220	120-220
				f	0.06-0.2	0.06-0.2	0.06-0.2	0.06-0.2	0.06-0.2	0.06-0.25
			6.3 •	Vc	60-100	60-100	60-100	60-100	60-100	60-100
				f	0.06-0.1	0.06-0.1	0.06-0.1	0.06-0.1	0.06-0.1	0.06-0.1

ISO	Workpiece material	Hardness HB	Overhang L/D		Boring range D68-120		Boring range D120-200		Boring range D200-500	
				ap (mm)	0.8-3.0	1.8-4.0	0.8-3.0	2.0-4.0	0.8-3.0	2.0-4.5
				R (Radius)	0.2-0.4	0.4-0.8	0.2-0.4	0.4-0.8	0.2-0.4	0.4-0.8
N	**Aluminum/ Cast**	>12si	2.5 •••	Vc	200-300	240-350	200-300	240-350	200-300	240-350
				f	0.06-0.25	0.06-0.3	0.06-0.25	0.06-0.4	0.06-0.25	0.06-0.4
			4 ••	Vc	150-220	150-220	150-220	150-220	N.R.	N.R.
				f	0.06-0.2	0.06-0.2	0.06-0.2	0.06-0.2		
			6.3 •	Vc	60-100	60-100	N.R.	N.R.	N.R.	N.R.
				f	0.06-0.1	0.06-0.1				
	Aluminum/ Cast	<12si	2.5 •••	Vc	180-250	220-280	180-250	220-280	180-250	220-280
				f	0.06-0.25	0.06-0.3	0.06-0.3	0.06-0.4	0.06-0.3	0.06-0.4
			4 ••	Vc	120-220	120-220	120-220	120-220	N.R.	N.R.
				f	0.06-0.2	0.06-0.25	0.06-0.2	0.06-0.25		
			6.3 •	Vc	60-100	60-100	N.R.	N.R.	N.R.	N.R.
				f	0.06-0.1	0.06-0.1				

• N.R. = Not recommended
• In case of a single or a stepped boring cutter configuration, only half the feed should be applied

Fine boring head BHF 16-50 and BHE operating instructions

Assembly

- When mounting the BHF boring head, the expanding pin should be kept tightly inside the cylindrical body
- Insert the BHF into the shank
- Tighten the pin ❷ by turning clockwise

The recommended tightening torque guidelines are as follows:

Recommended Torque	(N·m)
BHF MB16 - 16 x 34	2.0 - 2.5
BHF MB20 - 20 x 40	4.0 - 4.5
BHF MB25 - 25 x 50	6.5 - 7.5
BHF MB32 - 32 x 63	7.0 - 8.0
BHF MB40 - 40 x 80	16.0 - 18.0
BHF MB50 - 50 x 60	30.0 - 35.0

- Insert screw ❺ until it completely enters the recess in the sleeve nut or boring bar

Disassembly

- Loosen the pin ❷ by turning counter-clockwise

Positioning

- Loosen the screw ❹ before making any slide adjustment
- By turning the graduated dial ❸ counterclockwise, set the tool slide ❼ allowance for a 4mm adjustment
- Lock the tool slide by means of screw ❹, to the desired position
- Lock the screw ❹
- When making any slide adjustment, firstly loosen the screw ❹

Maintenance

Weekly:

- Lubricate through the oiling nipple ❽ with ISO UN G220 oil

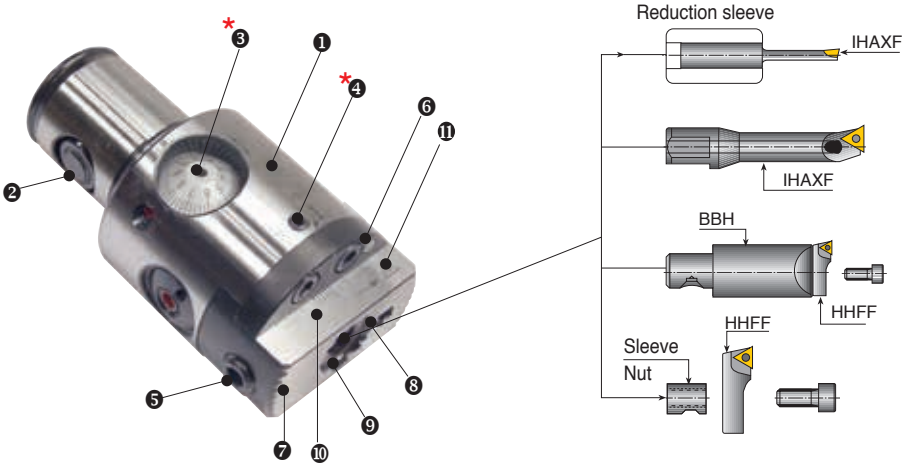
Periodically:

- Clean the conical cylindrical surface and then lubricate
- Grease the expanding pin ❷ with an anti-friction lubricant
- Clean and lubricate the tool slide guideway

Important note:

- Toolholder should be firmly affixed to the slide at all times

* Due to back-lash phenomenon, if you pass the required value, turn the dial ❸ in the reverse direction at least one rotation and then re-adjust in the original direction



❶ Body

❷ Expanding pin

* ❸ Graduated dial

* ❹ Slide locking screw

❺ Toolholder locking screw

❻ Coolant nozzle

❼ Slide holder

❽ Oiling nipple

❾ Tool bore .63H7

❿ Slide adjusting range
Do not exceed the range marks!!

⓫ Cutting edge position mark

Fine boring head BHF 63-125 operating instructions

■ Assembly

- When mounting the BHF boring head, the expanding pin should be kept tightly inside the cylindrical body
- Insert the BHF into the shank
- Tighten the pin ❷ by turning clockwise

The recommended tightening torque guidelines are as follows:

Recommended Torque	(N·m)
BHF MB50 - 63 x 87	30 - 35
BHF MB50 - 80 x 94	30 - 35
BHF MB63 - 63 x 87	80 - 90
BHF MB80 - 80 x 94	80 - 90
BHF MB80 - 125 x 94	80 - 90
BHF MB50 - 50 x 60	30.0 - 35.0

- Insert screw ❺ until it completely enters the recess in the sleeve nut or boring bar

■ Disassembly

- Loosen the pin ❷ by turning counter-clockwise

■ Positioning

- Loosen the screw ❹ before making any slide adjustment
- By turning the graduated dial ❸ counterclockwise, set the tool slide ❼ allowance for a 4mm adjustment
- Lock the tool slide by means of screw ❹, to the desired position
- Lock the screw ❹
- When making any slide adjustment, firstly loosen the screw ❹

■ Maintenance

Weekly:

- Lubricate through the oiling nipple ❽ with ISO UN G220 oil

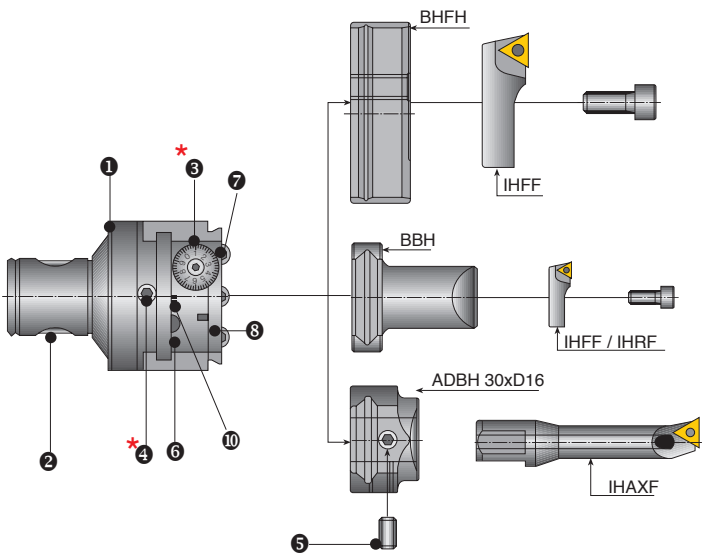
Periodically:

- Clean the conical cylindrical surface and then lubricate
- Grease the expanding pin ❷ with an anti-friction lubricant
- Clean and lubricate the tool slide guideway

■ Important note:

- Toolholder should be firmly affixed to the slide at all times

* Due to back-lash phenomenon, if you pass the required value, turn the dial ❸ in the reverse direction at least one rotation and then re-adjust in the original direction



❶ Body

❷ Expanding pin

*❸ Graduated dial

*❹ Slide locking screw

❺ Toolholder locking screw

❻ Coolant nozzle

❼ Slide holder

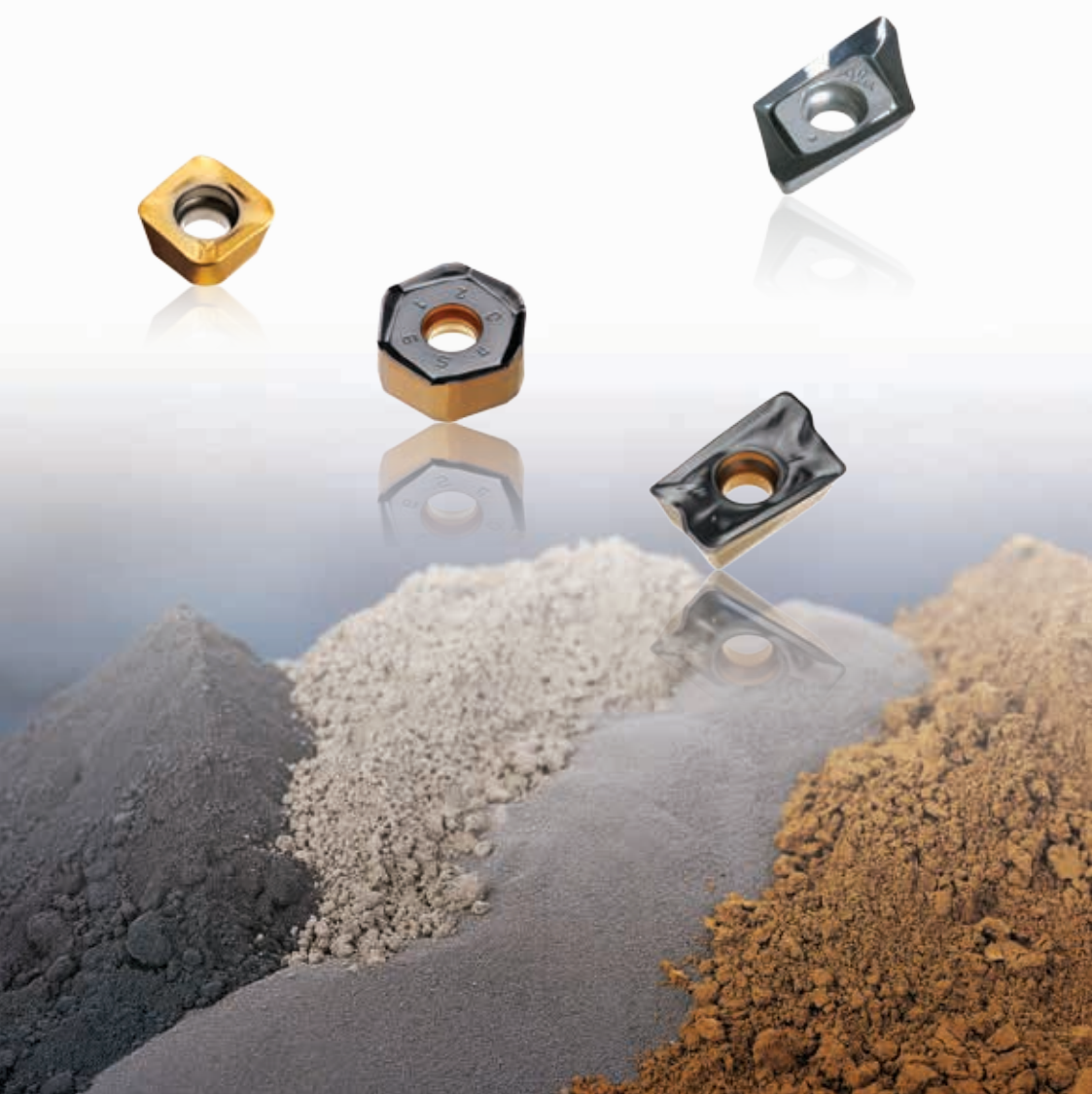
❽ Oiling nipple

❾ Toolholder locking screws

❿ Slide adjusting range
Do not exceed the range marks!!

INDUSTRY4.0

MATERIALS & GRADES



Grade Comparison Table

▶ Milling grades

ISO class	TaeguTec	Sandvik	Walter	Seco	Kennametal	MMC	Sumitomo	Tungaloy	Kyocera	Korloy	Iscar
P	TT2510 TT7080	GC4330 GC1010 GC4220 GC4230	WKP25S WKP25 WAM10 WAM20	MP1500 MP2500 T250M		MP6120	ACP100	T3130 AH3035 AH710		PC3525 PC3530 NC5330 NC5340	IC5400 IC380 IC902 IC950 IC520M
P	TT9080	GC4340 GC1130 GC1030 GC4240	WKP25S WAM30	F25M F30M F32M MP3000	KC522M KC635M	MP9120 MP9130 VP15TF MP6130 VP20RT	ACP3000 ACU2500 ACP200	AH110 AH3225 AH725 AH730 GH330 AH120	PR830 PR1225 PR1230 PR9925	PC3700 PC3500 PC3600 PC5300 PC3535	IC608 IC808 IC908
P	TT8525B TT8080	GC4240 GC1040	WKP35G WKP35S WKP45S WSM45X WSP45S WSP45G	F40M T350M T60M MS2050 MP2050	KC725M KC735M KC935M KCPM20 KCPM40	VP30RT FH7020 F7030	ACP300 ACZ350	AH140 T3130 AH130 AH3135 AH9030	PR1525	PC3600 PC5400 NC5350 NCM535	IC830 IC330 IC845 IC928 IC300
M S	TT9080 TT9030	GC1010 GC1130 GC1030 GC2030 S30T GC1025	WAM30 WXM35	MS2050 MP3000 MP2500 F25M F30M F32M	KC635M	MP9120 MP9130 VP15TF VP20RT	XCU2500 ACU2500 ACK300 ACP300 ACM100 ACM20	AH110 AH3225 T3130 AH8015 AH725 AH120 AH4035	PR830 PR1210 PR1025 PR1225 PR905	PC5300 PC9530	IC608 IC808 IC902 IC908
M S	TT8080 TT8020	GC2040 GC1040 S40T	WSM30 WSM35 WSM35S WSP45S WSM45X WMP45G	F40M MS2500 MM4500 MP2050	KC725M KCPM40	MP9140 MP7130 MP7140 VP30RT MV1020 MC7020	ACM200 ACM300	AH130 AH140 SH730 AH3135	PR1225 PR905	PC5400 NC5350 PC9540	IC840 IC830 IC882 IC330 IC328
K	TT7515 TT2510	GC1010 GC3220 GC3330 GC4220	WAK15	MK1500 MP1500 MH1000	KC915M KCK15	MC5020	ACK3000 ACU2500 ACK200	T1115		PC8110	IC5100 IC4100 IC902 DT7150 IC4050
K	TT6080	GC1020 GC4230 GC3040 GC4240	WKP25S WKP35G WKP35S WKK25S	MK2000 MK3000 MK2050 F32M	KCK15 KC520M	MP8010 VP15TF VP20RT F5010	XCK2000 ACK300 ACZ310	AH110 AH725 AH120 AH8015	PR905 PR1210 PR1510	PC6510 NC5330 NC5340 NCM535	IC810 IC910 IC608
H	TT2510 TT6080 TT9080	GC1010 GC1130 GC1030	WHH15 WHH15X	F15M MH1000 MP1500 MP3000 F32M	KC510M KC522M KC635M	MV1020 MP8010 VP15TF VP20RT F5010		AH710 AH750		PC2005 PC2010 PC2015 PC2510 PC2505 PC210F	IC902 IC903 IC900

Grade Comparison Table

Cermet grades

ISO class	TaeguTec	Sandvik	Kennametal	Sumitomo	Kyocera	Tungaloy	Mitsubishi	Korloy	Seco	NTK	Ceramtec
P	CT7000	CT530	KT1120 KT175	T250A T130A	TN100M TN620M PV90	NS530	VP45N NX99 NX3035	CN20 CN30	TP1020 C15M	N20 Z15 C50 C7X	SC7015 SC60

Ceramic grades

ISO class	Composition	TaeguTec	Sandvik	Kennametal	Ceramtec	NTK	Kyocera	Sumitomo	Tungaloy
K	Al_2O_3, ZrO_2	AW120	CC620		SN60 SN80	HC1 HW2	KA30		TZ120
	Al_2O_3, TiC	AB30	CC650	KY1615	SH2 SH4	HC2 HC5 HC6	A65	NB90S NB90M	LX21
	Si_3N_4, Al_2O_3, Y_2O_3, AlN	AS500		KY1310 KY3000	SL506 SL508 SL606 SL608	SX9			
	Si_3N_4, ZrO_2, Al_2O_3, Y_2O_3	AS10	CC6090 CC6190	KY1320 KY3500 KYK10	SL500 SL808	SX1 SX6 SX8	KS6000 KS6050	SN2000K SN2100K NS260	FX105 CX710
	CVD coated	SC10	CC1690	KY3400 KYK25	SL550C SL554C SL654C SL658C SL854C SL858C	SP2 SP9	CS7050	NS260C	CXC73
H	Al_2O_3, TiCN	AB20			SH2 SH4	HC2 HC5 HC7			LX10
	PVD coated	AB2010	CC6050	KY4400		ZC4 ZC7	A66N PT600M	NB100C	LX11
S	Al_2O_3, SiC whisker	TC430	CC670	KY4300		WA1 WA5		WX2000	
	Si_3N_4, TiN	TC3020 TC3030	CC6060 CC6065 CC6160	KY2100 KY1540 KYS30 KYS25 KYS30P		SX3 SX5 SX7 SX9	KS6030 KS6040	SN1000S SN2000S	TS200 TS300

Grade Comparison Table

▶ CBN grades

ISO class	TaeguTec	Iscar	Tungaloy	Sumitomo	Sandvik	Kennametal	Mitsubishi	Kyocera	Seco
H	TB610	IB10H IB50	BX310	BN1000 BNX1	CB7105 CB7015	KB1610	MBC010	KBN510	CBN10
		IB10HC	BXC30 BXA30	BNC80 BNC100 BNC2010		KB5610 KB9610	MB8025 BC8105 BC8210	KBN10M KBN10C KBN25C	CBN050C CH0550
	TB2015 TB650	IB20H IB55	BX330 BX530	BN250 BN2000 BNX20	CB7115 CB7025	KB1625	MB810	KBN525	CBN100
		IB25HA	BXM10 BXC30 BXA40	BNC160 BNC2020		KB5625	MB820 BC8110 BC8220	KBN05M KBN25M	CBN160C CH2540
	TB670	IB25HC	BX360 BX380	BNX25 BN350	CB7125 CB7135 CB50 CB7525 CB7925		MB825 MB8025 BC8120 BC8220		CBN150 CBN170
			BXM20 BXA20 BXA40 BXC50	BNC200 BNC300			MB835 BC8020 BC8130	KBN30M	CBN060K CBN100P
K	TB7015 TB730	IB90	BX930 BX850 BX950	BN500 BN7500 BN7000	CB50 CB7525	KB1630 KB1345	MB4020 MB710	KBN475 KBN60M KBN65B	CBN200
		IB05S IB10S	BX470 BX480	BN700 BNC500	CB7050	KB5630 KB9640	MB730	KBN65M KBN70M KBN570	CH3515
	KB90A TB7020		BX90S BXC90	BNS800	CB7925		MBS140	KBN900	CBN200 CBN300 CBN300P CBN350 CBN400C

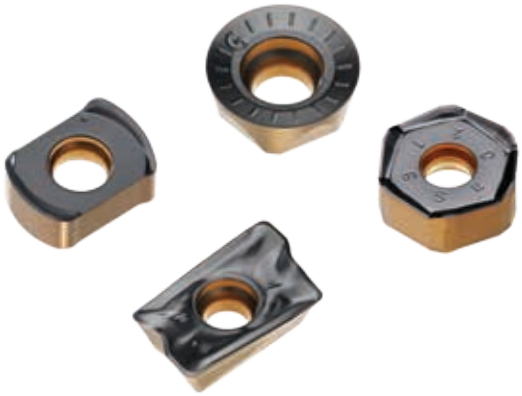
▶ PCD grades

ISO class	TaeguTec	Iscar	Tungaloy	Sumitomo	Sandvik	Kennametal	Mitsubishi	Kyocera	Seco	NTK
N01-N10	TD810	ID8	DX180 DX160	DA90		KD1405	MD203	KPD230	PCD30M PCD30	
N05-N20	KP300	ID5	DX140	DA150	CD10	KD1400	MD220	KPD010	PCD20	PD1
N15-N30	TD830		DX120 DX110	DA2200 DA1000		KD1425	MD205	KPD001	PCD10 PCD05	PD2

Milling SFEED-RUSH grades

SFEED-RUSH grades have upgraded toughness and chipping resistance through special post-coating treatment process of CVD grades. Through the post-coating treatment process, single color inserts have been transformed into two different colors, on the side and the top (see the illustrations below).

ISO class	Grade	ISO Rage	Insert color
P	TT8525B	P30-P45	



Hardness Conversion Table

Vickers 50kg HV	Brinell HB10mm ball LOAD 3000kgf: Standard ball	Brinell HB10mm ball LOAD 3000kgf: Tungsten carbide ball	Rockwell: A scale 60kgf diamond brale HRA	Rockwell: B scale 100kgf 1/16in ball HRB	Rockwell: C scale 150kgf diamond brale HRC	Rockwell: D scale 100kgf diamond brale HRD	Shore's HS	Tensile strength N/mm^2 (kgf/mm^2)
1900			93.1		80.5			
1800			92.6		79.2			
1700			91.9		77.9			
1600			91.3		76.6			
1500			90.5		75.3			
1450			90.1		74.6			
1400			89.6		74.0			
1350			89.1		73.4			
1300			88.7		72.7			
1250			88.3		72.1			
1200			87.9		71.5			
1150			87.5		70.9			
1100			87.1		70.3			
1050			86.6		69.6			
1000			86.2		68.9			
940			85.6		68.0	76.9	97	
920			85.3		67.5	76.5	96	
900			85.0		67.0	76.1	95	
880		(767)	84.7		66.4	75.7	93	
860		(757)	84.4		65.9	75.3	92	
840		(745)	84.1		65.3	74.8	91	
820		(733)	83.8		64.7	74.3	90	
800		(722)	83.4		64.0	74.8	88	
780		(710)	83.0		63.3	73.3	87	
760		(698)	82.6		62.5	72.6	86	
740		(684)	82.2		61.8	72.1	84	
720		(670)	81.8		61.0	71.5	83	
700		(656)	81.3		60.1	70.8	81	
690		(647)	81.1		59.7	70.5		
680		(638)	80.8		59.2	70.1	80	
670		630	80.6		58.8	69.8		
660		620	80.3		58.3	69.4	79	
650		611	80.0		57.8	69.0		
640		601	79.8		57.3	68.7	77	2205(210)
630		591	79.5		56.8	68.3		2020(206)
620		582	79.2		56.3	67.9	75	1985(202)
610		573	78.9		55.7	67.5		1950(199)
600		564	78.6		55.2	67.0	74	1905(194)
590		554	78.4		54.7	66.7		1860(190)
580		515	78.0		54.1	66.2	72	1825(186)
570		535	77.8		53.6	65.8		1795(183)
560		525	77.4		53.0	65.4	71	1750(179)
550	(505)	517	77.0		52.3	64.8		1750(174)
540	(496)	507	76.7		51.7	64.4	69	1660(169)
530	(488)	497	76.4		51.1	66.2		1620(165)
520	(480)	488	76.1		50.5	63.5	67	1570(160)
510	(473)	479	75.7		49.8	62.9		1530(156)
500	(465)	471	75.3		49.1	62.2	66	1459(153)
490	(456)	460	74.9		48.4	61.6		1460(149)
480	488	452	74.5		47.7	61.3	64	1410(144)

• Note: Gray figures come from ASTM E 140 table (Calculated by SAE-ASM-ASTM together)

Vickers 50kg HV	Brinell HB10mm ball LOAD 3000kgf		Rockwell				Shore's HS	Tensile strength N/mm^2 (kgf/mm^2)
	Standard ball	Tungsten carbide ball	A scale 60kgf diamond brale HRA	B scale 100kgf 1/16in ball HRB	C scale 150kgf diamond brale HRC	D scale 100kgf diamond brale HRD		
470	441	442	74.1		46.9	60.7		1570(160)
460	433	433	73.6		46.1	60.1	62	1530(156)
450	425	425	73.3		45.3	59.4		1459(153)
440	415	415	72.8		44.5	58.8	59	1460(149)
430	405	405	72.3		43.6	58.2		1410(144)
420	397	397	71.8		42.7	57.5	57	1370(140)
410	388	388	71.4		41.8	56.8		1330(136)
400	379	379	70.8		40.8	56.0	55	1290(131)
390	369	369	70.3		39.8	55.2		1240(127)
380	360	360	69.8	(110.0)	38.8	54.4	52	1250(123)
370	350	350	69.2		37.7	53.6		1170(120)
360	341	341	68.7	(109.0)	36.6	52.8	50	1130(115)
350	331	331	68.1		35.5	51.9		1095(112)
340	322	322	67.6	(108.0)	34.4	51.1	47	1070(109)
330	313	313	67.0		33.3	50.2		1035(105)
320	303	303	66.4	(107.0)	32.2	49.4	45	1005(103)
310	294	294	65.8		31.0	48.4		980 (100)
300	284	284	65.2	(105.5)	29.8	47.5	42	950 (97)
295	280	280	64.8		29.2	47.1		935 (96)
290	275	275	64.5	(104.5)	28.5	46.5	41	915 (94)
285	270	270	64.2		27.8	46.0		905 (92)
280	265	265	63.8	(103.5)	27.1	45.3	40	890 (91)
275	261	261	63.5		26.4	44.9		875 (89)
270	256	256	63.1	(102.0)	25.6	44.3	38	855 (87)
265	252	252	62.7		24.8	43.7		840 (86)
260	247	247	62.4	(101.0)	24.0	43.1	37	825 (84)
255	243	243	62.0		23.1	42.2		805 (82)
250	238	238	61.6	99.5	22.2	41.7	36	795 (81)
245	233	233	61.2		21.3	41.1		780 (79)
240	228	228	60.7	98.1	20.3	40.3	34	765 (78)
230	219	219		96.7	(18.0)		33	730 (75)
220	209	209		95.0	(15.7)		32	695 (71)
210	200	200		93.4	(13.4)		30	670 (68)
200	190	190		91.5	(11.0)		29	635 (65)
190	181	181		89.5	(8.5)		28	605 (62)
180	171	171		87.1	(6.0)		26	580 (59)
170	162	162		85.0	(3.0)		25	545 (56)
160	152	152		81.7	(0.0)		24	515 (53)
150	143	143		78.7			22	490 (50)
140	133	133		75.0			21	455 (45)
130	124	124		71.2			20	425 (44)
127	121			69.8			19	(42)
122	116			67.6			18	(41)
117	111			65.7			15	(39)

• Note: Gray figures come from ASTM E 140 table (Calculated by SAE-ASM-ASTM together)

Material Conversion Table

According to VDI 3323 standard

Material group	AISI/SAE	Material No. DIN		BS EN	AFNOR
1	A 366 (1012) 1008	0.0030	C10	040 A 10 045 M 10 1449 10 CS	AF 34 C 10 XC 10
1		1.0028	Ust 34-2 (S250G1T)		A 34-2
1		1.0034	RSt 34-2 (S250G2T)	1449 34/20 HR, HS, CR, CS	A 34-2 NE
1		1.0035	St185 (Fe 310-0) St 33	Fe 310-0 1449 15 HR, HS	A 33
1	A 570 Gr. 33,36	1.0036	S235JRG1 (Fe 360 B) Ust 37-2	Fe 360 B 4360-40 B	
1		1.0037	S235JR (Fe 360 B) St 37-2	Fe 360 B 4360-40 B	E 24-2
1	1115	1.0038	GS-CK16	030A04 1A	
1	A 570 Gr. 40	1.0044	S275JR (Fe 430 B) St44-2	Fe 430 B FN 1449 43/25 HR, HS 4360-43 B	 E 28-2
1		1.0045	S355JR	4360-50 B	E 36-2
1	A 570 Gr.50 A 572 Gr.50	1.0050	E295 (Fe 490-2) St 50-2	Fe 490-2 FN 4360-50 B	 A 50-2
1	A 572 Gr. 65	1.0060	E335 (Fe 590-2) St 60-2	Fe 60-2 4360-55 E; 55 C	 A 60-2
1		1.0060	St 60-2		
1		1.0070	E360 (Fe 690-2) St 70-2	Fe 690-2 FN	A 70-2
1		1.0112	P235S	1501-164-360B LT20	A37AP
1		1.0114	S235JU;St 37-3 U	4360-40C	E 24-3
1	A 284 Gr.D A 573 Gr.58 A 570 Gr 36;C A 611 Gr. C	1.0116	S235J2G3 (Fe 360 D 1) St 37-3	Fe 360 D1 FF 1449 37/23 CR 4360-40 D	E 24-3 E 24-4
1		1.0130	P265S	1501-164-400B LT 20	A 42 AP
1		1.0143	S275J0; St 44-3 U	4360-43C	E 28-3

SS	UNI	UNE	JIS	KS	GOST
	C 10 1 C 10	F.1511 F.151A	S 10C	SM 10C	10
	Fe 330,Fe 330 B FU		SS 330	SS 330	
	Fe 330 B FU				St2sp
1300	Fe 320	Fe 310-0			St0
1311 1312	FE37BFU	AE 235 B Fe 360 B			16D, 18Kp St3Kp
1311	Fe 360 B 1449 37/23 HR	AE 235 B Fe 360 B	STKM 12A;C	STKM 12A;C	
1325	Fe 330,Fe 330 B FU		SS 330	SS 330	
1412	Fe 430 B Fe 430 B FN	AE 275 B Fe 430 B FN	SM 400 A;B;C	SM 400 A;B;C	St4ps; sp
2172	Fe 510 B	AE 355 B			
1550 2172	Fe 490	a 490-2 Fe 490-2 FN	SS 490	SS 490	ST5ps; sp
1650	Fe 60-2 Fe 590	A 590-2 Fe 590-2 FN	SM 570	SM 570	St6ps; sp
	Fe 60-2				
1655	Fe 70-2 Fe 690	A 690-2 Fe 690-2 FN			
	Fe 360 C	AE 235 C			
	Fe 360 C	AE 235 C			
1312 1313	Fe 360 D1 FF Fe 360 C FN Fe 360 D FF Fe 37-2	AE 235 D Fe 360 D1 FF			St3kp; ps; sp 16D
		SPH 265			
1414-01	Fe 430 D	AE 275 D			

Material Conversion Table

According to VDI 3323 standard

Material group	AISI/SAE	Material No. DIN		BS EN	AFNOR
1	A 573 Gr. 70 A 611 Gr.D	1.0144	S275J2G3 (Fe 430 D 1) St 44-3	Fe 430 D1 FF 4360-43 C; 43 D	E 28-3 E 28-4
1		1.0149	S275JOH; RoSt 44-2	4360-43C	
1		1.0226	DX51D; St 02 Z	Z2	GC
1	M 1010	1.0301	C10	040 A 10 045 M 10 1449 10 CS	AF 34 C 10 XC 10
1	A 621 (1008)	1.0330	DC 01 St 2; St 12	1449 4 CR 1449 3 CS	 TE
1	A 619 (1008)	1.0333	Ust 3 (DC03G1) Ust 13	1449 2 CR;3 CR	E
1	A 621 (1008)	1.0334	UStW 23 (DD12G1)		SC
1	A 622 (1008)	1.0335	DD13; StW 24	1449 1 HR	3C
1	A 620 (1008)	1.0338	DC04 St4; St 14	1449 1 CR;2 CR	ES
1	A 516 Gr. 65; 55 A 515 Gr. 65;55 A 414 Gr. C A 442 Gr.55	1.0345	P235GH HI	1501 Gr. 141-360 1501 Gr. 161-360; 151-360 1501 Gr. 161-400; 154-360 1501 Gr. 164-360; 161-360	A 37 CP;AP
1	(M) 1020 M 1023	1.0402	C22	055 M 15, 070 M 20 2C/2D 1499 22 HS, CS	AF 42 C 20; XC 25;1 C 22
1	1020	1.0402	C22	050A20 2C/2D	CC20
1	1020;1023	1.0402	C22	055 M 15, 070 M 20 2C	AF 42 C 20; XC 25;1 C 22
1		1.0425	P265GH H II	1501 Gr. 161-400;151-400 1501 Gr. 164-360; 161-400 1501 Gr. 164-400;154-400	A 42 CP; AP
1	A27 65-35	1.0443	GS-45	A1	E 23-45 M
1		1.0539	S355NH;StE 335		TSE 355-4
1		1.0545	S355N; StE 355	4360-50E	E 355 R
1		1.0546	S355NL;TStE 355	4360-50EE	E 355 FP
1		1.0547	S355JOH	4360-50C	TSE 355-3
1		1.0549	S355 NLH;TStE 355		
1		1.0553	S355JO;St 52-3U	4360-50C	E 36-3

SS	UNI	UNE	JIS	KS	GOST
1411, 1412 1414	Fe 430 B, Fe 430 C (FN) Fe 430 D (FF)	AE 275 D Fe 430 D1 FF	SM 400 A;B;C	SM 400 A;B;C	St4kp> ps; sp
1412-04	Fe 430 C	Fe 430 C			
1151 10	FeP 02 G	FeP 02 G			
	C 10 1 C 10	F.1511 F.151.A	S 10C	SM 10C	10
1142	FeP 00 FeP 01	AP 11	SPHD	SPHD	15kp
	FeP 02	AP 02	SPCD	SPCD	
	FeP 12	AP 12	SPHE	SPHE	10kp
	FeP 13	AP 13	SPHE	SPHE	08kp
1147	FeP 04	AP 04	SPCE	SPCE	08jU; JUA
1331 1330	FeE235, Fe 360 1 KW;KG Fe 360 2 KW;KG	A 37 RC I RA II	SGV 410, SGV 450, SGV 48, SPV 450;SPV 480	SGV 410, SGV 450, SGV 480, SPPV 450;SPPV 480	
1450	C 20 C 21, C 25	1 C 22 F.112	S20C	SM 20C	20
1450	C20, C21	F.112	S22C	SM 22C	20
1450	C 20; C 21;C 25	1 C 22F.112	S 20 C;S 22 C	SM 20 C;SM 22C	
1431 1430 1432	Fe 410 1 KW; KG; KT Fe 410 2 KW; KG	A 42 RC I A 42 RC II	SPV 315; SPV 355 SG 295; SGV 410 SGV 450; SGV 480	SPPV 315; SPPV 355 SG 295; SGV 410 SGV 450; SGV 480	16K 20K
1305					
2134-04	Fe 510 B	Fe 355 KGN			
2334-01	FeE 355 KG	AE 355 KG			
2135-01	FeE 355 KT	AE 355 KT			
2172-04	Fe 510 C	Fe 510 C			
2135	Fe 510 D	FeE 355 KTM			
	Fe 510 C				

Material Conversion Table

According to VDI 3323 standard

Material group	AISI/SAE	Material No. DIN		BS EN	AFNOR
1	A 633 Gr.C A 588	1.0562	P355N StE 355	1501 Gr.225-490A LT 20	FeE 355 KG N E 355 R/FP; A 510 AP
1		1.0565	P355NH; WStE 355	1501-225-490B LT 20	A 510 AP
1		1.0566	P355NL1; TStE 355	1501-225-490A LT 50	A 510 FP
1	1	1.0570	S355J2G3 St 52-3	Fe 510 D1 FF 1449 50/35 HR>HS 4360-50 D	E 36-3 E 36-4
1	1213	1.0715	9 SMn 28 (1SMn30)	230 M 07	S 250
1	1213	1.0715	9 SMn 28	230 M 07	S 250
1	12 L 13	1.0718	9 SMnPb 28 (11SMnPb30)		S 250 Pb
1	1108 1109	1.0721	10 S 20	(210 M 15)	10S20 10F 2
1	11 L 08	1.0722	10 SPb 20		10PbF 2
1	11 L 08	1.0722	10 SPb 20		10PbF 2
1	1215	1.0736	9 SMn 36 11SMn37)		S 300
1	12 L 14	1.0737	9 SMnPb 36 (11SMnPb37)		
1		1.0972	S315MC; QStE 300 TM	1501-40F30	E 315 D
1		1.0976	S355MC; QStE 360 TM	1501-43F35	E 355 D
1		1.0982	S460MC; QStE 460 TM	1501-50F45	
1		1.0984	S500MC; QStE 500 TM		E 490 D
1		1.0986	S500MC; QStE 500 TM	1501 - 60F55	E 560 D
1	1010	1.1121	CK 10 (C10E)	040 A 10	XC 10
1		1.1121	St 37-1	4360 40 A	
1	1015	1.1141	CK 15 (C15E)	040 A 15 32C 080 M 15	XC 12 XC 15 XC 18
1	1020 1023	1.1151	C22E CK 22	055 M 15 (070 M 20)	2 C 22 XC 18 XC 25
1	D 3	1.2080	X 210 Cr 12	BD 3	Z 200 C 12

SS	UNI	UNE	JIS	KS	GOST
2106	FeE 355 KG;KW	AEE 355 KG;DD	SM 490 A;B;C; YA;YB	SM 490 A;B;C; YA;YB	15GF
2106	FeE 355-2				
2107-01	FeE 355-3				
2132, 2133 2134, 2174	17GS 17G1S	AE 355 D Fe 510, D1 FF	SM 490 A;B;C; YA;YB	SM 490 A;B;C; YA;YB	17GS 17G1S
1912	CF SMn 28	F.2111 - 11 SMn 28	SUM 22	SUM 22	
1912	CF 9 SMn 28	11 SMn 28	SUM 22	SUM 22	
1914	CF 9 SMnPb 28	F.2112-11 SMnPb 28	SUM 22 L SUM 23 L, SUM 24 L	SUM 22 L SUM 23 L, SUM 24 L	
	CF 10 S 20	F. 2121 - 10 S 20			
	CF 10 SPb 20	F.2122-10 SPb 20			
	CF 10 SPb 20	10 SPb 20			
	CF 9 Mn 36	F.2113 - 12 SMn 35	SUM25	SUM25	
2642	FeE 355TM				
2662	FeE 490 TM				
	FeE 560 TM				
1265	C 10, 2 C 10 2 C 15	F-1510-C 10 K	S 9 CK S 10 C	S 9 CK S 10 C	08;10
1300					
1370	C 15 C 16	F.1110-C 15 F.1511-C 16 K	S 15 S 15 CK	SM 15C SM 15CK	15
1450	C 20 C 25	F.1120-C 25 K	S 20 C, S 20 CK S 22 C	SM 20 C, SM20 CK SM22 C	20
2642					

Material Conversion Table

According to VDI 3323 standard

Material group	AISI/SAE	Material No. DIN		BS EN	AFNOR
1	A36		St 44-2	4360 43 A	NFA 35-501 E 28
1			StE 320-3Z	1 501 160	
1	A572-60	1.8900	StE 380	4360 55 E	
2	(M) 1025	1.0406	C 25	070 M 26	1 C 25
2		1.0416	GS-38		20-400 M
2	A 537 Cl.1 A 414 Gr. G A 612	1.0473	P355GH	19 Mn 6	A 52 CP
2	1035	1.0501	C 35	080 A 32, 080 A 35 080 M 36, 1449 40 CS	1 C 35 AF 55 C 35 XC 38
2	1045	1.0503	CF 45 (C45G)	060 A 47 080 M 46	XC 42 H 1 TS
2	1040	1.0511	C 40	080 M 40	1 C 40 AF 60 C 40
2		1.0540	C 50		
2	A27 70-36	1.0551	GS-52	A2	280-480 M
2	A148 80-40	1.0553	GS-60	A3	320-560 M
2	A738	1.0577	S355J2G4 (Fe 510 D 2)	Fe 510 D2 FF 1501 Gr.224-460 1501 Gr. 224-490	A 52 FP
2	1140	1.0726	35 S 20	212 M 36 8M	35MF 6
2	1146	1.0727	45 S 20 (46S20)		45 MF 4
2	1035 1041	1.1157	40Mn4	150 M 36 15	35 M 5 40 M 5
2	1025	1.1158	C25E CK 25	(070 M 25)	2 C 25 XC 25
2	1536	1.1166	34Mn5		
2	1330	1.1170	28Mn6	(150 M 28), (150 M 18)	20 M 5, 28 Mn 6
2	1330	1.1170	28Mn6	150 M 5	20 M 5
2	1330	1.1170	28Mn6	14A	20 M 5
2		1.1178	C30E; CK 30	080M30	XC 32

SS	UNI	UNE	JIS	KS	GOST
1411					
1421					
2145	FeE390KG		S 25C	SM 25C	
	C 25 1 C 25				
1306					
2101 2102	Fe E 355-2	A 52 RC I RA II	SGV 410 SGV 450 SGV 480	SGV 410 SGV 450 SGV 480	
1572 1550	C 35 1 C 35	F.113	S35C	SM35C	35
1672	C 43 C 46		S 45 C	SM 45 C	45
	C 40	1 C 40	S 40 C	SM 40 C	
1674	C 50	1 C 50			
1505					
1606					
2107		A 52 RB II AE 355 D			
1957		F.210.G			
1973					
			S 09CK	SMn 433	
C 25	F.1120 - C 25 K	S 25 C S 28 C	S 25 C	SM 25 C	
	TO.B	SMn 433 H			
1421	C 28 Mn	28 Mn 6	SCMn 1	SCMn 1	30G
2145					
	C 28 Mn		SCMn 1	SCMn 1	
	C 30	2 C 30			

Material Conversion Table

According to VDI 3323 standard

Material group	AISI/SAE	Material No. DIN		BS EN	AFNOR
2	1035	1.1180	C35R Cm 35	080 A 35	3 C 35 XC 32
2	1035 1038	1.1181	C35E CK 35	080 A 35 (080 M 36)	2 C 35, XC 32 XC 38 H 1
2	1035	1.1181	C35E CK 35	080 A 35 (080 M 36)	
2	1042	1.1191	GS- Ck 45	080 A 46	XC 45
2	1049 1050	1.1206	C50E CK 50	080 M 50	2 C 50 XC 48 H 1; XC 50 H 1
2	1050 1055	1.1213	Cf 53 (C53G)	070 M 55	XC 48 H TS
2	4520	1.5423	22Mo4	1503-245-420	
3		1.0050	St50-2		
3	A 516 Gr.70 A 515 Gr. 70 A 414 Gr.F; G	1.0481	P295GH 17 Mn 4	1501 Gr. 224	a 48 Cp;AP
3	1043	1.0503	C35	060 A 47 080 M 46 1449 50 HS, CS	1 C 45 AF 65 C 45
3	1074	1.0614	C 76 D; D 75-2		XC 75
3	1086	1.0616	C 86 D; D 85-2		XC 80
3	1095	1.0618	C 92 D;D 95-2		XC 90
3	1036 1330	1.1165	30Mn5	120 M 36 (150 M 28)	35 M 5
3	1335	1.1167	30Mn5	150 M 36	40 M 5
3	1040	1.1186	C40E CK 40	060 A 40, 080 A 40 080 M 40	2 C 40 XC 42 H 1
3	1045	1.1191	C45E CK 45	080 M 46 060 A 47	2 C 45 XC 42 H 1 XC 45 XC 48 H 1

SS	UNI	UNE	JIS	KS	GOST
1572		F.1130-C 35 K-1			
1550 1572	C35	F.1130-C 35 K	S 35 C	SM 35 C	35
1572	C36		S 35 C	SM 35 C	
1660	C45	F-1140			
1674	C 50				50
1674	C 53		S 50 C	SM 50 C	50
	16 Mo 5 KG; KW	F.2602- 16 Mo 5	SB 450 M	SB 450 M	SB 480 M
	FE50				
	Fe 510 KG;KT;KW Fe 510-2 KG;KT;KW FeE 295	A 47 RC I RA II	SG 365, SGV 410 SGV 450 SGV 480	SG 365, SGV 410 SGV 450 SGV 480	14G2
1672 1650	C 45 1 C 45	F.114	S 45 C	SM 45 C	45
C 85					
		F.8211-30 Mn 5 f.8311-AM 30 Mn 5	SMn 433 H SCMn 2	SMn 433 H SCMn 2	27ChGSNMDTL 30GSL
2120		F. 1203-36 Mn 6 F. 8212-36 Mn 5	SMn 438 (H) SCMn 3	SMn 438 (H) SCMn 3	35G2 35GL
	C 40		S 40 C	SM 40 C	
1672	C 45 C 46	F.1140-C 45 K F.1142-C48 K	S 45 C S 48 C	S 45 C S 48 C	45

Material Conversion Table

According to VDI 3323 standard

Material group	AISI/SAE	Material No. DIN		BS	EN	AFNOR
3	1049	1.1201	C45R Cm 45	080 M 46		3 C 45 XC 42 H 1 XC 48 H 1
3		1.7242	18 CrMo 4			
3	A 387 Gr. 12 Cl	1.7337	16 CrMo 4 4			
3	A 387 Gr. 12 Cl	1.7337	16 CrMo 4 4			
3		1.7362	12 CrMo 19 5	3606-625		Z 10 CD 5.05
3	A572-60		17 MnV 6	436055 E		NFA 35-501 E 36
4	1055	1.0535	C55	070 M 55		1 C 55 AF 70 C 55
4	1060	1.0601	C60	060 A 62 1449 HS,CS	43D	1 C 60 AF 70 C 55
4	1070	1.0603	C67	080 A 67 1449 70HS		XC65
4	1074 1075	1.0605	C75	1449 80 HS		
4	1055	1.1203	C55E CK 55	060 A 57 070 M 55		2 C 5 XC 55 H 1
4	1055	1.1209	C55R Cm 55	070 M 55		3 C 55 XC 55 H 1
4	1060 1064	1.1221	C60E CK 60	060 A 62	43D	2 C 60 XC 60 H 1
4	1070	1.1231	CK 67 (C67E)	060 A 67		XC 68
4	1074 1075 1078	1.1248	CK 75 (C75E)	060 A 78		XC 75
4	1086	1.1269	CK 85 (C85E)			XC 90
4	1095	1.1274	Ck 101 (C101E)			XC 100
4	W 112	1.1663	C 125 W			Y2 120
4						
5		1.0070	St70-2			
5		1.7238	49 CrMo 4			
5		1.7701	51 CrMoV 4			

SS	UNI	UNE	JIS	KS	GOST
1660	C 45	F.1145-C 45K-1 F.1147C 48 K-1	S 50 C	SM 50 C	
18 CrMo 4					
	A 18 CrMo 4 5 KW				
	A 18 CrMo 4 5 KW				
	16 CrMo 20 5				
2142					
1655	C 55 1 C 55		S 55 C	SM 55 C	55
	C 60 1 C 60		S 58 C	SM 58 C	60(G)
	C 67				
	C 75				75
1655	C 55	F.1150-C 55 K	S 55 C	SM 55 C	55
	C 55	F.1155-C 55 K-1			
1655 1678	C 60		S 58 C	SM 58 C	60 60G, 60GA
1770	C 70				65GA 68GA , 70
774	C 75				75(A)
	C 90				85(A)
	C 100	F-5117	SUP 4	SPS 4	
1870					
2223					
	FE70-2				
	51 CrMoV 4				

Material Conversion Table

According to VDI 3323 standard

Material group	AISI/SAE	Material No. DIN		BS	EN	AFNOR
6	A573-81 65	1.0116	St 37-3	4360 40 B		E 24-U
6	A515 65	1.0345	H1	1 501 161		A 37 CP
6	5120	1.0841	St 52-3	150 M 19		20 MC 5
6	9255	1.0904	55 Si 7	250A53	45	55S7
6	9254	1.0904	55 Si 7	250 A 53		55 S 7
6	9262	1.0961	60SiCr7	1 501 161		60SC6
6	L3	1.2067	100Cr6	BL3		Y100C6
6	L1	1.2108	90 CrSi 5			
6	L2	1.2210	115CrV3			100C3
6		1.2241	51CrV4			
6		1.2311	40 CrMnMo 7			
6	4135	1.2330	35 CrMo 4	708 A 37		34 CD 4
6		1.2419	105WCr6	BO1		105WC13
6	0 1	1.2510	100 MnCrW 4	BS1		8 MO 8
6	S1	1.2542	45 WCrV7			
6	S1	1.255	60WCrV7			55WC20
6	L6	1.2713	55NiCrMoV6			55NCDV7
6	L6	1.2721	50NiCr13			55 NCV 6
6	O2	1.2842	90MnCrV8	BO2		90 MV8
6	E 50100	1.3501	100 Cr 2			55WC20
6	52100	1.3505	100Cr6	2 S 135 535 A 99	31	100 C 6
6		1.5024	46Si7			45 S 7; Y 46 7;46 SI 7
6	9255	1.5025	51Si7			51 S 7 51 Si 7
6	9255	1.5026	55Si7	251 a 58		55 S 7
6	9260	1.5027	60Si7	251 A 60 251 H 60		60 S 7
6	9260 H	1.5028	65Si7			60 S 7
6		1.5120	38 MnSi 4			

SS	UNI	UNE	JIS	KS	GOST
1312	Fe37-3				
1330					
2172	Fe 52	F-431			
2085	55Si8	56Si7			
2090		F-431			
60SiCr8	60SiCr8				
	100Cr6				
2092	105WCR 5				
	107CrV3KU				
	35 cRmO 8 KU				
2234	35CrMo4	34CrMo4	SCM435TK	SCM435TK	
2140	10WCr6	105WCr5			
2140	10WCr6	105WCr5	SKS 31	STS 31	
2710	45 WCrV8 KU	45WCrSi8			
2710	58WCr9KU				
		F.520.S	SKT 4	STF 4	
2550		f-528			
2258	100Cr6	F.1310 - 100 Cr 6	SUJ2	STB 2	SchCh 15
		F. 1451 - 46 SI 7			
2090	48 Si 7	F.1450-50 Si 7			
	50 Si 7				
2085 2090	55 Si 7	F.1440 - 56 Si 7			55S2
	60 Si 7	F. 1441 - 60 Si 7			60S2
			50 P 7 SUP 6	SPS 6	

Material Conversion Table

According to VDI 3323 standard

Material group	AISI/SAE	Material No. DIN		BS	EN	AFNOR
6	A 204 Gr.A 4017	1.5415	16Mo3 15 Mo 3	1503-243 B		15 D 3
6	4419	1.5419	20Mo4	1503-243-430		
6	A 350-LF 5	1.5622	14Ni6			16N6
6	3415	1.5732	1 NilCr10			14 NC 11
6	3310; 3314	1.5752	14NilCr14	655M13	36A	12NC15
6		1.6587	17CrNiMo6	820A16		18NCD6
6		1.6657	14NiCrMo134			
6	5515	1.7015	15 Cr 3	523 M 15		12 C 3
6	5132	1.7033	34Cr4	530A32	18B	32C4
6	5140	1.7035	41C r4	530M40	18	42C4
6	5140	1.7045	42Cr41	530 A 40		42 C 4 TS
6	5115	1.7131	16MnCr5	527 M 17		16 MC 5
6		1.7139	16MnCr5			
6	5515	1.7176	55Cr3	527 A 60	48	55 C 3
6	4135; 4137	1.7220	34CrMo4	708 Aa 37		35 CD 4
6	4142	1.7223	41CrMo4			
6	4140	1.7225	42CrMo4	708 M 0		42 CD 4
6		1.7228	55NiCrMoV6G	823M30	33	
6		1.7262	15CrMo5			12 CD 4
6		1.7321	20 mOcR 4			
6	ASTM A182 F-12	1.7335	13CrMo4 4	1501-620Gr27		
6	A 182-F11;12	1.7335	13 CrMo 4 4	1 501 620 Gr. 27		15 CD 4.5
6	ASTM A 182 F.22	1.7380	10CrMo9 10	1501-622gR31; 45		
6	A182 F-22	1.7380	10 CrMo 9 10	1501-622		12 CD 9.10
6		1.7715	14MoV6 3	1503-660-440		
6	A355A	1.8509	41CrAlMo 7	905 M 39	41B	40 CAD 6.12
7	A570.36	1.0038	S235JRG2 (Fe 360 B) RSt 37-2	Fe 360 B FU 1449 27/23 CR 4360-40 B		E 24-2NE
7	3135	1.5710	36NiCr6	640A35		35NC6

SS	UNI	UNE	JIS	KS	GOST
2912	16Mo3(KG;KW)	F. 2601 - 16 Mo 3			
-2512	G 20 Mo 5 G 22 Mo5		SCPH 11	SCPH 11	
14 Ni 6 KG;KT	F.2641 - 15 Ni 6				
16NiCr11	15NiCr11	SNC415(H)			
		SNC815(H)			
	14NiCrMo13				
	14NiCrMo131				
			SCr415(H)	SCr415(H)	
	34Cr4(KB)	35Cr4	SCr430(H)	SCr430(H)	
	41Cr4	42Cr4	SCr440(H)	SCr440(H)	
2245	41Cr4	42Cr4	SCr440	SCr440	
2511	16MnCr5	16MnCr5			
2127					
2253			SUP9(A)	SPS 9(A)	
2234					
	41CrMo4	42CrMo4	SNB 22-1	SNB 22-1	
2244					
2512	653M31				
2216		12CrMo4			
2625					
	14CrMo4 5	14CrMo45			
2216		12CrMo4	SCM415(H)	SCM415(H)	
2218	12CrMo9,10	TU.H			
		13MoCrV6			
2940	41CrAlMo7	41CrAlMo7			
1312	Fe 360 B FN	AE 235 B FN;FU Fe 360 B FN; FU			St3ps; sp

Material Conversion Table

According to VDI 3323 standard

Material group	AISI/SAE	Material No. DIN		BS	EN	AFNOR
7		1.5755	31 NiCr 14	653 M 31		18 NC 13
7	8620	1.6523	2 NiCrMo2	805M20	362	20 NCD 2
7	8740	1.6546	40 NiCrMo 22	311-Tyre 7		
7	4130	1.7218	25CrMo4	CDS 110		25 CD 4
7		1.7733	24 CrMoV 5 5			20 CDV 6
7		1.7755	GS-45 CrMOV 10 4			
7		1.8070	21 CrMoV 5 11			
8	4142	1.2332	47 CrMo 4	708 M 40	19A	42 CD 4
8	A128 (A)	1.3401	G-X120 Mn 12			Z 120 M 12
8	3435	1.5736	36 NiCr 10			30 NC 11
8	9840	1.6511	36CrNiMo4	816M40	110	40NCD3
8	4340	1.6582	35CrNiM 6	817 M 40	24	35 NCD 6
8		1.7361	32 CeMo12	722 M 24	40B	30 CD 12
8	6150	1.8159	50 CrV 4	735 A 50	47	50CrV4
8		1.8161	58 CrV 4			
8		1.8515	32 CrMo 12	722 M 24	40B	30 CD 12
8		1.8523	39CrMoV13 9	897M39	40C	
9		1.4882	X 50 CrMnNiNbN 21 9			Z 50 CMNNb 21.09
9	3135	1.5710	36NiCr6	640A35	111A	35NC6
9		1.5864	35 niCr 18			
9			31 NiCrMo 13 4	830 m 31		
10	A573-81	1.0144	ST 44-3	4360 43 C		E 28-3
10	A 619	1.0347	DCO3 RSt;RRSt 13	1449 3 CR 1449 2 CR		E
10	M 1015 M 1016 M 1017	1.0401	C15	080 M 15 080 M 15 1449 17 CS		AF 37 C12 XC 18
10		1.0570	ST 52-3	4360 50 B		E 36-3
10	12L13	1.0718	9SMnPb28			S250Pb
10	(12L13)	1.0718	9 SMnPb 28			S 250 Pb

SS	UNI	UNE	JIS	KS	GOST
2506	20NiCrMo2	20NiCrMo2	SNCM220(H)	SNCM220(H)	
	40NiCrMo2(KB)	40NiCrMo2	SNCM240	SNCM240	
2225	25CrMo4(KB)	55Cr3	SCM420/430	SCM420/430	
	21 CrMoV 5 11				
	35 NiCr 9				
2244	42CrMo4	42CrMo4	SCM (440)	SCM (440)	
2183	GX120Mn12	F. 8251-AM-X120Mn12	SCMnH 1, SCMn H 11	SCMnH 1, SCMn H 11	110G13L
	36nIcRmO4(KB)	35NiCrMo4	SUP 10	SPS 10	
2541	35NiCrMo6(KB)		SNCM 447	SNCM 447	
2240	30CrMo12	F.124.A			
2230	50CrV4	51CrV4			
2240	32CrMo12	F.124.A			
	36CrMoV12				
			SNC236	SNC236	
2534		f-1270			
1412			SM 400A;B;C	SM 400A;B;C	
	Fep 02	AP 02			08JU
1350	C15 C16 1 C 15	F.111	S 15 C	SM 15 C	
2132	Fe52BFN/Fe52CFN		SM490A;B;C;YA;YB	SM490A;B;C;YA;YB	
1914	CF9SMnPb28	11SMnPb28			
1914	CF 9 SMnPb 28	11 SMnPb 28	SUM 22L	SUM 22L	

Material Conversion Table

According to VDI 3323 standard

Material group	AISI/SAE	Material No. DIN		BS EN	AFNOR
10		1.0723	15 S 22 15 S 20	210 A 15 210 M 15	
10		1.2083			
10	H 11	1.2343	x 38 CrMoV 5 1	BH 11	Z 38 CDV 5
10	H 13	1.2344	X 40 CrMoV 5 1	BH 13	Z 40 CDV 5
10	A 2	1.2363	X100 CrMoV 5 1	BA 2	Z 100 CDV 5
10	D 2	1.2379	X 155 CrVMo 12 1	BD2	Z 160 CDV 12
10	HNV3	1.2379	X210Cr12G	BD2	Z160CDV12
10	D 4 (D 6)	1.2436	X 210 CrW 12	BD6	Z 200 CD 12
10	H 21	1.2581	X 30 WCrV 9 3	BH 21	Z 30 WCV 9
10		1.2601	X 165 CrMoV 12		
10	H 12	1.2606	X 37 CrMoW 5 1	BH 12	Z 35 CWDV 5
10	D3	1.3343	S 6-5-2	BM2	Z200C12
10	N08028	1.4563			Z1NCDU31-27-03
10	ASTM A353	1.5662	X8Ni9	1501-509;510	
10	ASM A353	1.5662	X8Ni9	502-650	9 Ni
10	2517	1.5680	12Ni19	12Ni19	Z18N5
10	2515	1.5680	12 Ni 19		Z 18 N 5
11		1.3202	S 12-1-4-5	BT 15	
11		1.3207	S 10-4-3-10	BT 42	Z130WKCDV
11	T15	1.3243	S 6-5-2-5		KCV 06-05-05-04-02
11		1.3246	S 7-4-2-5		Z110 WKCDV 07-05-04
11		1.3247	S 2-10-1-8	BM 42	Z110 DKCWV 09-08-04
11	M 42	1.3249	S 2-9-2-8	BM 34	
11	T 4	1.3255	S 18-1-2-5	BT 4	Z 80 WKCV 18-05-04-0
11	M 2	1.3343	S6-5-2	BM2	Z 85 WDCV
11	M 7	1.3348	S2-9-2		Z 100 DCWV 09-04-02-

SS	UNI	UNE	JIS	KS	GOST
1922		F.210.F	SUM 32	SUM 32	
2314					
	X 37 CrMoV 5 1 KU				
2242	X40CrMoV511KU	F-5318	SKD61	STD61	
2260	X100CrMoV51KU	F-5227	SKD12	STD12	
2310	X165CrMoW12KU	X160CrMoW12KU			
2736					
2312	X215CrW 12 1 KU	F-5213			
	X30WCrV 9 3 KU	F-526	SKD5	STD5	
2310					
	X 35 CrMoW 05 KU	F.537			
2715	X210Cr13KU	X210Cr12	SUH3	STR3	
2584					
	14 Ni 6 KG;KT	XBNiO9			
	X10Ni9	F-2645	SL9N60(53)	SL9N590(520)	
	HS 12-1-5-5	12-1-5-5			
2723	HS 6-5-2-5	6-5-2-5	SKH55	SKH55	
7-4-2-5	HS 7-4-2-5	M 35			
2-10-1-8	HS 2-9-1-8 2-9-2-8	M 41			
2722	HS 652	F-5604	SKH 51	SKH 51	
2782	HS 292	F-5607			

Material Conversion Table

According to VDI 3323 standard

Material group	AISI/SAE	Material No. DIN		BS	EN	AFNOR
11	T 1	1.3355	S 18-0-1	BT 1		Z 80 WCV 18-4-01
11	630	1.4548				Z7CNU17-04
11	HNV 3	1.4718	X45CrSi 9 3	401S45	52	Z45CS9
11	422	1.4935	x20 CrMoWV 12 1			
12	403	1.4000	X6Cr13	403 S 17		Z 6 C 13
12		1.4001	X6Cr14			
12	(410S)	1.4001	X7 Cr 13	(403 S 7)		Z 8 C 13
12	405	1.4002	X6CrA12	405S17		Z8CA12
12	405	1.4002	X6 CrAl 13	405 S 17		Z6CA13
12	416	1.4005	X12CrS 13	416 S 21		Z11 CF 13
12	410; CA-15	1.4006	(G-)X10 Cr 13	410S21	56A	Z10 C 13
12	430	1.4016	X8Cr17	Z8C17		430S15
12	430	1.4016	X6 Cr 17	430 S 15	60	Z 8 C 17
12		1.4027	G-X20Cr14	420 C 29		Z20 C 13M
12		1.4027	G-X 20 Cr 14	420 C 29		Z 20 C 13M
12	420	1.4028	X30 Cr 13	420 S 45		Z 30 C 13
12		1.4086	G-X120Cr29	452C11		
12	430 F	1.4104	X12CrMoS17	420 S 37		Z 10 CF 17
12	440B	1.4112	X90 CrMoV 18			
12	434	1.4113	X6CrMo 17	434 S 17		Z 8 CD 17.01
12		1.4340	G-X40CrNi27 4			
12	S31500	1.4417	X2CrNiM0Si19 5			
12	S31500	1.4417	X2 CrNoMoSi 18 5 3			
12		1.4418	X4 CrNiMo16 5			Z6CND16-04-01
12	XM 8 430 Ti 439	1.4510				Z 4 CT 17
12	430tl	1.4510	X6 CrTi 17			Z 4 CT 17
12		1.4511	X 6 CrNb 17(X 6 CrNb 17			Z 4 CNb 17
12	409	1.4512	X 6 CrTi 12 (X2CrTi12)	LW 19 409 S 19		Z 3 CT 12
12		1.4720	X20CrMo13			

SS	UNI	UNE	JIS	KS	GOST
	X45CrSi8	F322	SUH1	STR1	
2301	X6Cr13	F.3110	SUS403	STS 403	
		F8401			
2301					
	X6CrAl13				
2302	X6CrAl13				
2380	X12 CrSC13	F-3411	SUS 416	SUS 416	
2302	X12Cr13	F.3401	SUS 410	SUS 410	
2320	X8Cr17	F.3113			
2320	X8Cr17	F.3113	SUS 430	SUS 430	
2304					
2383	X10CrS17	F.3117	SUS430F	STS 430F	
2325	X8CrMo17		SUS434	STS 434	
2376					
2376					
2387					
	X 6 CrTi 17	F.3115-X 5 CrTi 17	SUS 430 LK	STS 430 LX	08 Ch17T
	X 6 CrNb 17	F.3122-X 5 CrNb 17	SUS 430 LK	STS 430 LX	
	X 6 CrTi 17		SUH 409	STR 409	

Material Conversion Table

According to VDI 3323 standard

Material group	AISI/SAE	Material No. DIN		BS	EN	AFNOR
12	405	1.4724	X10CrA113	403S17		Z10C13
12	430	1.4742	X10CrA118	439S15	60	Z10CAS18
12	HNV6	1.4747	X80CrNiSi20	443S65	59	Z80CSN20.02
12	446	1.4749	x18 cRn 28			
12	446	1.4762	X10CrA124			Z10CAS24
12	EV 8	1.4871	X 53 CrMnNiN 21 9	349 S 54		Z 52 CMN 21.09
12	302		x12 CrNi 18 9	302 S 31		Z 10 CN 18-09
12	429		X10 CrNi 15			
13	420	1.4021	X20Cr13	420S37		Z 20 C 13
13	420	1.4031	X40 Cr 13			Z 40 C 14
13		1.4034	X46Cr13	420 S 45		Z40 C 14
13	431	1.4057	X20CrNi172	431 S 29	57	Z 15 CN 16.02
13		1.4125	X 105 CrMo 17			Z 100 CD 17
13	CA6-NM	1.4313	G-X4 CrNi 13 4	425 C 11		Z 4 CND 13-04 M
13	630	1.4542	X 5 CrNiCuNb 17 4 (X5CrNiCuNb 16-4)			
13		1.4544		S. 524 S. 526		
13	348	1.4546	X5CrNiNb 18-10	347 S 31 2 S. 130 2 S. 143/144/145 S.525/527		
13		1.4922	x20cRmV12-1			
13		1.4923	X22 CrMoV12 1			
14	304	1.4301	X 5 CrNi 18 9	304 S 15		Z 5 CN 18.09
14	303	1.4305	X10 CrNiS 18 9	303 S 21	58M	Z 8 CNF 18-09
14	304L	1.4306	X2CrNi18 9	304S12		Z2CrNi18 10
14	304L	1.4306	X2 CrNi 18 10	304 S 11		Z 3 CN 19-11
14	CF-8	1.4308	X6 CrNi 18 9	304 C 15	58E	Z 6 CN 18-10 M
14	301	1.4310	X12CrN i17 7	301 S 21		Z 12 CN 17.07

SS	UNI	UNE	JIS	KS	GOST
	X10CrA112	F.311			
	X8Cr17	F.3113	SUS430	STS430	
	X80CrSiNi20	F.320B	SUH4	STR4	
2322	X16Cr26		SUH446	STR446	
	X53CrMnNiN21 9		SUH35,SUH36	STR35,STR36	
2330					
2303	14210				
-2304					
	X40Cr14	F.3405	SUS420J2	STS420J2	
2321	X16CrNi16	F.3427	SUS431	STS431	
	X 105 CrMo 17				
2385	(G)X6CrNi304		SCS5	SSC5	
	X 6 CrNiTi 18 11				08Ch 18N12T
	X 6 CrNiNb 18 11				
2317	x20cRmOnI 12 01				
2332;2333					
2346	X10CrNiS18.09	F.3508	SUS303	STS303	
2352	x2cRnI18 11	F.3503	SCS19	SSC19	
2352	X2CrNi18 11				
2333			SUS304L	STS304L	
2331	X2CrNi18 07	F.3517			

Material Conversion Table

According to VDI 3323 standard

Material group	AISI/SAE	Material No. DIN		BS	EN	AFNOR
14	304 LN	1.4311	X2 CrNiN 18 10	304 S 62		Z 2 CN18.10
14		1.4312	G-X10CrNi18 8	302C25		Z10CN18.9M
14	305	1.4312	X8 CrNi 18 12	305 S 19		
14		1.4332	X2 CrNi 18-8			
14	304	1.4350	X5CrNi18 9	304S15	58E	Z6CN18.09
14	S32304	1.4362	X2 CrNiN 23 4			Z 2 CN 23-04 AZ
14	202	1.4371	X3 CrMnNiN 188 8 7	284 S 16		Z 8 CMN 18- 08-05
14	316	1.4401	X 5 CrNiMo 17 12 2 (X4 CrNiMo 17 -12-2)	316 S 13 316 S 17 316 S 19 316 S 31 316 S 33		Z 3 CND 17 -11-01 Z 6 CND 17-11 Z 6 CND 17-11-02 Z 7 CND 17-11-02 Z 7 CND 17-12-02
14	316L	1.4404	X2 CrNiMo 17 13 2 (X2 CrNiMo 17-12-2) GX 2 CrNiMoN 18-10	316 S 11, 316 S 13 316 S 14, 316 S 31; 316 S 42, S.537;316 C 12, T.75, S. 161		Z 2 CND 17-12 Z 2 CND 18-13 Z 3 CND 17-11-02 Z 3 CND 17-12-02 FF Z 3 CND 18-12-03 Z 3 CND 19.10 M
14	316LN	1.4406	X2 CrNiMoN 17 12 2 (X2CrNiMoN 18-10)	316 S 61 316 S 63		Z2 CND 17-12 AZ
14	CF-8M	1.4408	GX 5 CrNiMoN 7 12 2 G-X 6 CrNiMo 18 10	316 C 16 (LT 196) ANC 4 B		
14		1.4410	G-X10CrNiMo18 9			Z5CNaD20.12M
14	316 Ln	1.4429	X2 CrNiMo 17 -13-3	316 S 62		Z 2 CND 17-13 Az
14	316L	1.4435	X2 CrNiMo18 14 3	316 S 11;316 S 13 316 S 14;316 S 31 LW 22 LWCF 22		Z 3 CND 17-12-03 Z 3 CND 18-14-03
14	316	1.4436	X 5 CrNiMo 17 13 3 (X4CRNIMO 17-13-3	316 S 19; 316 S 31 316 S 33 LW 23 LWCF 23		Z 6 CND 18-12-03 Z 7 CND 18-12-03

SS	UNI	UNE	JIS	KS	GOST
2371	X2CrNiN18 10		SUS304LN	STS304LN	
2332	X5CrNi18 10	F.3551	SUS304	STS304	
2347	X 5 CrNiMo 17 12	F.3534-X 5 CrNiMo 17 12 2	SUS 316	STS 316	
2348	X 2 CrNiMo 17 12	F.3533 - X 2 CrNiMo 17 13 2			
	G-X 2 CrNiMo 19 11	F.3537 - X 2 CrNiMo 17 13 3	SUS 316 L	STS 316 L	
	X 2 CrNiMoN 17 12	F.3542-X 2 CrNiMoN 17 12 2	SUS316LN	STS316LN	
2343		F.8414-AM-X 7 CrNiMo 20 10	SCS 14	SSC 14	07 Ch 18N10G2S2MSL
2328					
2375	X 2 CrNiMoN 17 13	F.3543-X 2 CrNiMoN 17 13 3	SUS 316 LN	STS 316 LN	
2375	X 2 CrNiMoN 17 13	F.3533-X 2 CrNiMo 17 13 2	SUS 316 L	STS 316 L	O3 Ch 17N14M3
2343	X 5 CrNiMo 117 13 X 8 cRnImO 17 13	F.3543-X 5 CrNiMo 17 12 2 F.3538-X 5 CrNiMo 17 13	SUS 316	STS 316	

Material Conversion Table

According to VDI 3323 standard

Material group	AISI/SAE	Material No. DIN		BS	EN	AFNOR
14	317L	1.4438	X2 CrNiMo 18 16 4 (X2CrNiMo 18-15-4)	317 S 12		Z 2 CND 19-15-04 z 3 cnd 19-15-04
14	(s31726)	1.4439	X2 CrNiMoN 17 13 5			Z 3 CND 18-14-06 AZ
14		1.4440	X 2 CrNiMo 18 13			
14	317	1.4449	X5 CrNiMo 17 13 3	317 S 16		
14	329	1.4449 1.4460	X 4 CrNiMo 27 5 2 (X3CrNiMo27-5-2)			(Z 3 CND 25-07 Az) Z 5 CND 27-05 Az
14	329	1.4460	X8CrNiMo27 5			
14		1.4462	X2CrNiMoN22 5 3	318 S 13		Z 3 CND 22-05 Az (Z 2 CND 24 -08 Az) (Z 3 CND 25-06-03 Az)
14		1.4500	G-X7NiCrMoCuNb25 20			23NCDU25.20M
14	17-7PH	1.4504		316S111		
14	443 444	1.4521	X2CrMoTi18-2	317 S 16		
14	UNS N 08904	1.4539	X1NiCrMoCuN25-20-5			Z 2 NCDU 25-20
14	CN-7M	1.4539	(G-)X1 NiCrMoCu 25 20 5			Z1 NCDU 25-02 M
14	321	1.4541	Z 6 CrNiTi 18-10	321 S 31 321 S 51 (1010;1105) LW 24 LWCF 24		Z 6 CNT 18-10
14	630	1.4542	X5 CrNiCuNb 17 4 (X5 CrNiChNb 16-4)			Z 7 CNU 15-05 Z 7 CNU 17-04
14	17-4PH	1.4542				Z7CNU17-04
14	S31254	1.4547	X1 CrNiMoN 20 18 7			
14	17-4PH	1.4548				Z7CNU17-04
14	347	1.4550	X6 CrNiNb 18 10	347 S 17	58F	Z 6 CNNb 18.10
14		1.4552	G-X7CrNiNb18 9			Z4CNNb19.10M
14	17-7PH	1.4568		316S111		
14	316tTi	1.4571	X6 CrNiMoTi 17 12 2	320 S 31		Z 6 CNDT 17-12002
14		1.4581	G-X 5 CrNiMoNb	318 C 17		Z 4 CNDNb 18.12 M
14	318	1.4583	X 10CrNiMoNb 18 12	303 S 21		Z15CNS20.12

SS	UNI	UNE	JIS	KS	GOST
2367	X2CrNiMo18 16	f.3539-x 2 cRnImO 18 16 4	SUS317L	STS317L	
	X 5 CrNiMo 18 15		SUS 317	STS 317	
2324		F.3309-X 8 CrNiMo 17 12 2			
		F.3552-X 8 CrNiMo 18 16 4	SUS 329 J 1	STS 329 J 1	
2377			SUS 329 J3L	STS 329 J3L	
	Z8CNA17-07	X2CrNiMo1712			
2326		F.3123-X 2 CrMoTiNb 18 2	SUS 444	STS 444	
2562					
2564					
2337	X 6 CrNiTi 18 11	F.3523 - X 6 CrNiTi 18 10	SUS 321	STS 321	06Ch18N10T 08Ch18N10T 09Ch18N10T 12Ch18N10T
			SCS 24	SSC 24	
			SUS 630	STS 630	
2378					
2338	X6CrNiNb18 11	F.3552	SUS347	STS347	
	Z8CNA17-07	X2CrNiMo1712			
2350					
	x15cRnIsI2 12				

Material Conversion Table

According to VDI 3323 standard

Material group	AISI/SAE	Material No. DIN		BS	EN	AFNOR
14		1.4585	G-X7CrNiMoCuNb18 18			
14		1.4821	X20CrNiSi25 4			Z20CNS25.04
14		1.4823	G-X40CrNiSi27 4			
14	309	1.4828	X15CrNiSi20 12	309 S 24	58C	Z15CNS20.12
14	309S	1.4833	X6 CrNi 22 13	309 S 13		Z 15 CN 24-13
14	310 S	1.4845	X12 CrNi 25 21	310S24		Z 12 CN 25-20
14	321	1.4878	X6 CrNiTi 18 9	32 1 S 20	58B	Z 6 CNT 18-12 (B)
14	Ss30415	1.4891	X5 CrNiNb 18 10			Z20CNS25.04
14	S30815	1.4893	X8 CrNiNb 11			
14	304H	1.4948	X6 CrNi 18 11	304 S 51		Z 5 CN 18-09
14	660	1.498	X5 NiCrTi 25 15			Zz 8 nctv 25-15 b ff
14			X5 NiCrN 35 25			
14	S31753		X2 CrNiMoN 18 13 4			
14			X2 CrNiMoN 25 22 7			
15	CLASS20	0.6010	GG10			Ft10D
15	A48-20B	0.6010	GG-10			Ft 10 D
15	NO 25 B	0.6015	GG 15	Grade 150		Ft 15 D
15	CLASS25	0.6015	GG 15	Grade 150		Ft 15D
15	A48 25 B	0.6015	GG 15	Grade 150		Ft 15 D
15	A48-30B	0.6020	GG-20	Grade 220		Ft 20 D
15	NO 30 B	0.6020	GG 20	Grade 220		Ft 20 D
15	A436 Type 2	0.6660	GGL-NiCr202	L-NiCuCr202		L-NC 202
15	60-40-18	0.7040	GGG 40	SNG 420/12		FCS 400-12
15	No 20 B		GG 10			Ft 10 D
16	CLASS30	0.6020	GG 20	Grade 220		Ft 20D
16	CLASS45	0.6030	GG 30	Grade 300		Ft 30D
16	A48-45 B	0.6030		Grade 350		Ft 30D
16	A48-50	0.6035	GG-35	Grade 350		Ft 35 D
16	A48-60 B	0.6040	GG40	Grade 400		Ft 40 D
16	100/70/03	0.7070	GGG-70	SNG700/2		FGS 700-2

SS	UNI	UNE	JIS	KS	GOST
	X6CrNiMoTi17 12				
		F.8414	SCS17	SSC17	
2361	X6CrNi25 20	F.331	SUH310	STR310	
2337	X6CrNiTi18 11	F.3553	SUS321	STS321	
2372					
2368					
2333					
2570					
110	G 10				
0110-00					
0115-00	G 15	FG 15	FC150	GC150	
115	G 15	FG 15			
01 15-00	G 14	FG 15			
0120-00					
120	G 20		FC200	GC200	
0523-00					
0717-02	GS 370-17	FGE 38-17	FCD400	GCD400-18,15	
110			FC100	GC100	
120	G 20	FG 20			
130	G 30	FG 30	FC300	GC300	
01 30-00					
135	G 35	FG 35	FC350	GC350	
140					
07 37-01	GGG 70	GGG 70	FCD700	GCD700-2	

Material Conversion Table

According to VDI 3323 standard

Material group	AISI/SAE	Material No. DIN		BS EN	AFNOR
16		1.4829	X 12 CrNi 22 12		
17		0.7033	GGG35.3		
17		0.7033	GGG-35.3	350/22 L 40	FGS 370/17
17	60-40-18	0.7040	GGG-40	SNG 420/12	FGS 400-12
17	60/40/18	0.7043	GGG-40.3	370/7	FGS 370/17
17	80-55-06	0.7050	GGG50	SNG500/7	FGS 500/7
17	65-45-12	0.7050	GGG-50	SNG 500/7	FGS 500-7
17		0.7652	GGG-NiMn 13 7	S-NiMn 137	S-Mn 137
17	A43D2	0.7660	GGG-NiCr 20 2	Grade S6	S-NC 202
17			GGG 40.3	SNG 370/17	FGS 370-17
18	A48-40 B	0.6025	GG25	Grade260	Ft 25 D
18		0.7060	GGG60	SNG600/3	FGS600-3
18	80/55/06	0.7060	GGG-60	600/3	FGS 600/3
18	A48 40 B				
19		0.8055	GTW55		
19	32510	0.8135	GTS-35-10	B 340/12	MN35-10
19	A47-32510	0.8135	GTS-35-10	B 340/2	Mn 35-10
19	A220-40010	0.8145	GTS-45-06	P 440/7	Mn 450-6
19			GTS-35	B 340/12	
19				8 290/6	MN 32-8
19	32510		GTS-35	B340/12	MN 35-10
20		0.8035	GTM-35	W340/3	MB35-7
20		0.8040	GTW-40	W410/4	MB40-10
20		0.8045			
20		0.8065	GTMW-65		
20	A220-50005	0.8155	GTS-55-04	P 510/4	Mn 550-4
20	50005	0.8155	GTS-55-04	P 510/4	MP 50-5
20	70003	0.8165	GTS-65-02	P 570/3	Mn 650-3
20	90001	0.8170	GTS-70-02	P 690/2	Mn 700-2
20	A220-90001	0.8170	GTS-70-02		Mn 700-2

SS	UNI	UNE	JIS	KS	GOST
0717-15					
0717-15					
0717-02					
0717-15					
0727-02	GGG 50				
	0727-02		FCD 500	GCD 500-7	
0772-00					
0776-00					
0717-12					
125	G 25	FG 25	FC250	GC250	
07 32-03	GGG 60	GGG 60			
0727-03			FCD600	GCD600-3	
		GTW 55			
810		GTS 35			
0815-00					
	0852-00	GMN 45			FCMW370
0810-00					
814			AC4A	AC4A	
08 15			FCMW330	FCMW330	
852		GTM 35			
	GTB40	GTM 40			
	GMB45	GTM 45			
		GTM 65			
0854-00					
0854-00	GMN 55		FCMP490	PMC 490	
0856-00	GMN 65		FCMP590	PMC 590	

Material Conversion Table

According to VDI 3323 standard

Material group	AISI/SAE	Material No. DIN		BS	EN	AFNOR
20		0.8170	GTS-70-02	IP 70-2		
20	1022 1518	1.1133	20Mn5	120 M 19		20 M 5
20	1035	1.1183	Cf 35 (C35G)	080 A 35		XC 38 H 1 TS
20	400 10		GTS-45	P440/7		
20	70003		GTS-65	P 570/3		MP 60-3
21	Al99	3.0205				
21	1000	3.0255	Al99.5	L31/34/36		A59050C
21		3.3315	AlMg1			
22		3.1325	AlCuMg 1			
22		3.1655	AlCuSiPb			
22		3.2315	AlMgSi1			
21	7050	3.4345	AlZnMgCuO,5	L 86		AZ 4 GU/9051
23		3.2381	G-AlSi 10 Mg			
23		3.2382	GD-AlSi10Mg			
23		3.2581	G-AlSi12			
23		3.3561	G-AlMg 5			
23	ZE 41	3.5101	G-MgZn4sE1Zr1	MAG 5		
23	EZ 33	3.5103	MgSE3Zn27r1	MAG 6		G-TR3Z2
23	AZ 81	3.5812	G-MgAl8Zn1	NMAG 1		
23	AZ 91	3.5912	G-MgAl9Zn1	MAG 7		
24		2.1871	G-AlCu 4 TiMg			
24		3.1754	G-AlCu5Ni1,5			
24		3.2163	G-AlSi9Cu3			
24	4218 B	3.2371	G-AlSi 7 Mg			
24	SC64D	3.2373	G-AlSI9MGWA			A-S7G
24		3.2373	G-AlSi 9 Mg			
24	QE 22	3.5106	G-MgAg3SE2Zr1	mag 12		
24	GD-AlSI12		G-ALMG5	LM5		A-SU12
23-24	A360.2	3.2383	G-AlSi0Mg(Cu)	LM9		

SS	UNI	UNE	JIS	KS	GOST
0862-00	GMN 70		FCMP690	PMC 690	
0864-00					
2132	G 22 Mn 3				
	20 Mn 7	F.1515-20 Mn 6	SMnC 420	SMnC 420	
1572	C 36; C 38		S 35 C	SM 35 C	35
08 52					
858			FCMP540	PMC 540	
811-04					
4231			C4BS	C4BS	
4252					
4253					

Material Conversion Table

According to VDI 3323 standard

Material group	AISI/SAE	Material No. DIN		BS EN	AFNOR
23-24	A356-72			2789;1973	NF A32-201
23-24	356.1			LM25	
23-24	A413.2		G-AlSi12	LM6	
23-24	A413.1		G-AlSi 12 (Cu)	LM20	
23-24	A413.0		GD-AlSi12		
23-24	A380.1		GD-AlSi8Cu3	LM24	
26	C93200	2.1090	G-CuSn 7 5 pb		U-E 7 Z 5 pb 4
26	C83600	2.1096	G-CuSn5ZnPb	LG 2	
26	C83600	2.1098	G-CuSn 2 Znpb		
26	C23000	2.1182	G-CuPb15Sn	LB1	U-pb 15 E 8
26	C93800	2.1182	G-CuPb15Sn		Uu-PB 15e 8
27		2.0240	CuZn 15		
27	C27200	2.0321	CuZn 37	cz 108	CuZn 36, CuZn 37
27	C27700	2.0321	CuZn 37	cz 108	CuZn 36, CuZn 37
27		2.0590	G-CuZn40Fe		
27	C 86500	2.0592	G-CuZn 35 Al 1	U-Z 36 N 3	HTB 1
27	C 86200	2.0596	G-CuZn 34 Al 2	HTB 1	U-Z 36 N 3
27	C 18200	2.1293	CuCrZr	CC 102	U-Cr 0.8 Zr
28		2.0060	E-Cu57		
28		2.0375	CuZn36Pb3		
28	C 94100	2.0596	G-CuZn 34 Al 2	HTB 1	U-Z 36 N 3
28	C 63000	2.0966	CuAl 10 Ni 5 Fe 4	Ca 104	U-A 10 N
28	B-148-52	2.0975	G-CuAl 10 Ni		
28	C 90700	2.105	G-CuSn 10	CT1	
28	C 90800	2.1052	G-CuSn 12	pb 2	UE 12 P
28	C 81500	2.1292	G-CuCrF 35	CC1-FF	
28		2.4764	CoCr20W15Ni		
31	N 08800	1.4558	X 2 NiCrAlTi 32 20	NA 15	
31	N 08031	1.4562	X 1 NiCrMoCu 32 28 7		

SS	UNI	UNE	JIS	KS	GOST
4244			A5052	A5052P	
4261					
4260			ADC12	ALDC12	
4247			A6061	A6061P	
4250			A7075	A7075P	
	C 2700				
	C 2720				

Material Conversion Table

According to VDI 3323 standard

Material group	AISI/SAE	Material No.	DIN	BS	EN	AFNOR
31	N 08028	1.4563	X 1 NiCrMoCuN 32 27 4			
31	N 08330	1.4564	X 12 NiCrSi 36 16	NA 17		Z 12 NCS 35.16
31	330	1.4564	X12 NiCrSi 36 16	NA 17		Z 12 NCS 37.18
31		1.4865	G-X40NiCrSi38 18	330 C 40		
31		1.4958	X 5 NiCrAlTi 31 20			
31	AMS 5544	LW2.4668	NiCr19NbMo			NC20K14
32		1.4977	X 40 CoCrNi 20 20			Z 42 CNKDWNb
33	Monel 400	2.4360	NiCu30Fe	NA 13		NU 30
33	5390A	2.4603				NC22FeD
33	Hastelloy C-4	2.4610	NiMo16cR16Ti			
33	Nimonic 75	2.4630	NiCr20Ti	HR 5,203-4		NC 20 T
33		2.4630	NiCr20Ti	HR5,203-4		NC20T
33	Inconel 690	2.4642	NiC29Fe			Nnc 30 Fe
33	Inconel 625	2.4856	NiCr22Mo9Nb	NA 21		NC 22 FeDNb
33	5666	2.4856	NiCr22Mo9Nb			Inconel 625
33	Incoloy 825	2.4858	NiCr21Mo	NA 16		NC 21 Fe DU
34	Monel k-500	2.4375	NiCu30 Al	NA 18		NU 30 AT
34	4676	2.4375	NiCu30Al	3072-76		
34		2.4631	NiCr20TiAl	Hr40;601		NC20TA
34	Inconel 718	2.4668	NiCr19FeNbMo			NC 19 Fe Nb
34	Inconel	2.4694	NiCr16fE7TiAl			
34		2.4955	NiFe25Cr20NbTi			
34	5383	LM2.4668	NiCr19Fe19NbMo	HR8		NC19eNB
34	5391	LW2 4670	S-NiCr13A16MoNb	3146-3		NC12AD
34	5660	LW2.4662	NiFe35Cr14MoTi			ZSNCDT42
34	5537C	LW2.4964	CoCr20W15Ni			KC20WN
34	AMS 5772		C0Cr22W14Ni			KC22WN
35	Inconel X-750	2.4669	NiCr15Fe7TiAl			NC 15 TNb A
35	Hastelloy B	2.4685	G-NiMo28			
35	Hastelloy C	2.4810	G-NiMo30			

SS	UNI	UNE	JIS	KS	GOST
2584					
			SUH330	STR 330	
	XG50NiCr39 19		SCH15	HRSC 15	

Material Conversion Table

According to VDI 3323 standard

Material group	AISI/SAE	Material No. DIN		BS EN	AFNOR
35	AMS 5399	2.4973	NiCr19Co11MoTi		NC19KDT
35		3.7115	TiAl5Sn2		
36	R 50250	3.7025	Ti 1	2 TA 1	
36	R 52250	3.7225	Ti 1 pd	TP 1	
36	AMS 5397	LW2 4674	NiCo15Cr10MoAlTi		
37		3.7124	TiCu2	2 TA 21-24	
37	R 54620	3.7145	TiAl6Sn2Zr4Mo2Si		
37		3.7165	TiAl6V4	TA 10-13;TA 28	T-A 6 V
37		3.7185	TiAl4Mo4Sn2	TA 45-51; TA 57	
37		3.7195	TiAl 3 V 2.5		
37			TiAl4Mo4Sn4Si0.5		
37	AMS R54520		TiAl5Sn2.5	TA14/17	T-A5E
37	AMS R56400		TiAl6V4	TA10-13/TA28	T-A6V
37	AMS R56401		TiAl6V4ELI	TA11	
38	W 1	1.1545	C105W1	BW 1A	Y1105
38	W210	1.1545	C105W1	BW2	Y120
38		1.2762	75 CrMoNiW 6 7		
38	440C	1.4125	X105 CrMo 17		Z 100 CD 17
38		1.6746	32 nIcRmO 14 5	832 M 31	35 NCD 14
40	Ni- Hard 2	0.9620	G-X 260 NiCr 4 2	Grade 2 A	
40	Ni- Hard 1	0.9625	G-X 330 Ni Cr 4 2	Grade 2 B	
40	Ni- Hard 4	0.9630	G-X 300 CrNiSi 9 5 2		
40		0.9640	G-X 300 CrMoNi 15 2 1		
40	A 532 III A 25% Cr	0.9650	G-X 260 Cr 27	Grade 3 D	
40	A 532 III A 25% Cr	0.9655	G-X 300 CrNMo 27 1	Grade 3 E	
40		1.2419	105 WCr 6	105WC 13	
40	310	1.4841	X15 CrNiSi 25 20	314 S31	Z 15 CNS 25-20
41		0.9635	G-X 300 CrMo 15 3		
41		0.9645	G-X 260 CrMoNi 20 2 1		
41		0.9655	G-X 300 CrNMo 27 1		

SS	UNI	UNE	JIS	KS	GOST
1880	C100KU	F-5118	SK3	STC 105(STC3)	
2900	C120KU	CF.515	SUP4	SPS 4	
	0512-00				
	0513-00				
	0466-00				
		107 WCr 5 KU			

ADVANCE MACHINING

TaeguTec Industry 4.0

TaeguTec
Member IMC Group

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- English version: CT 03/2022

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