

Schut

Measuring instruments and systems





more than 70 years of quality in Europe

precision measuring instruments
mechanical - optical - electronical
3D CNC coordinate measuring machines

2023/2024

Schut Geometrical Metrology



Schut Netherlands



SGM Germany



Schut Belgium



SGM Switzerland



Schut France



ISO 9001 certification

Schut Geometrical Metrology is ISO 9001-2015 certified.
We have established a quality management system that meets the demands of the international quality standards. Our quality management ensures that all activities are comprehensively planned, managed and controlled.

The management of Schut Geometrische Meettechniek b.v. commits itself to conducting all activities in accordance with the defined requirements in the scope of the ISO-9001 declaration.



SCHUT.COM

C00.202.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Expert advice

Our technical advisors provide you a clear explanation and expert advice. Speak directly to a specialist. Our advisors are glad to discuss with you the possibilities and the application of your measuring instruments and e.g. the connection of the instruments to a PC.



Besides products displayed in this catalog, various other products can be supplied. You can also contact us for products that vary with the standard design or for custom measuring fixtures.

Logistics

You can reach our sales department on working days from 8.30 until 17.00 (Friday: 16.00). Orders can be placed by e-mail, telephone and post. We guarantee a fast and accurate processing. We aim for orders placed before 15.00 to ship within the same day (provided that the items are on stock). The terms of sales and delivery can be found in the last part of this catalog.

A large stock of products is essential to serve you as quickly as possible. That is why we have more than 170000 items on stock that we ship directly from our warehouse. The order processing is completely automated.

Selection and quality

We aim at supplying a wide lineup of geometrical measuring instruments and systems. In this specialized catalog we made an extensive selection of more than 38000 sales products in different price ranges. Besides products from well-known manufacturers we supply our own brand Filetta with an attractive price.



Calibration service

Some products are suplied with an manufacturer measuring report or declaration of conformity. In many cases this suits a quality system. When a traceable measuring report is required we can arrange this through one of our calibration-partners.



Service and support

Our specialized service and support departments assist you with various technical assignments.

For repairs, our service department can assist you, with many years of experience in geometrical metrology and a large stock of spare parts. The possibility of performing most repairs internally, saves you cost and time.

Our support department provides you advice, training, online support and custom applications for the DeMeet measuring machines.





C00.207.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Regional coverage

Schut Geometrical Metrology (Schut Geometrische Meettechniek bv) is an international organization, founded in 1949, with five offices throughout Europe, specialized in the development, production and sales of precision measuring instruments and systems.

Service and sales activities are performed by our company group or through an international network of experienced distributors.



Schut in Europe



Schut Geometrische Meettechniek bv
Duinkerkenstraat 21
9723 BN Groningen
The Netherlands
Tel +31 (0)50 5 877 877
E-mail SchutNL@Schut.com

Schut België bv
Wouter Haecklaan 4 bis
2100 Deurne (Antwerp)
Belgium
Tel +32 (0)3-366.59.59
E-mail SchutB@Schut.com

Schut France sarl
105, Rue de l'Arve
74300 Cluses
France
Tel +33 (0)4.50.98.10.17
E-mail SchutF@Schut.com

SGM Schut Geometrische Messtechnik GmbH
Gutenbergstraße 5
D-78647 Trossingen
Germany
Tel +49 (0)7425 - 312 66
E-mail SGMD@Schut.com

SGM AG Schut Geometrische Messtechnik
Ebnatstrasse 127
8200 Schaffhausen
Switzerland
Tel +41 (0)52 624 00 37
E-mail SGMCH@Schut.com

more than **70** years of quality in Europe

C00.303.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Table of contents

	category	page
1	Magnescale digital length measuring and gauge systems	6–24
2	Calipers / Depth calipers and micrometers	25–90
3	Micrometers / Micrometer heads	91–142
4	Internal micrometers / Internal & external measuring instruments	143–208
5	Dial indicators / Dial test indicators / Center instruments Edge finders / Probes / MF measuring fixture system	209–269
6	Stands / Bench centers / Surface plates	270–296
7	V-blocks / Vises / Angle plates / Cylindrical squares Squares / Parallels / Straight edges	297–333
8	Protractors / Clinometers / Spirit levels	334–355
9	Surface roughness testers / Roughness specimens	356–361
10	Gauge blocks / Measuring balls Optical flats and plan parallel optical flats / Feeler gauges	362–381
11	Gauges / Pin gauges / Thread and tolerance tables	382–406
12	Magnifiers / Microscopes / Glass rulers / Stereo microscopes Video microscopes / Endoscopes / Profile projectors	407–439
13	Graduated rulers / Scale units / Circumference tapes Precision tapes / Distance meters	440–454
14	Scribing tools / Compasses / Center squares	455–462
15	Height and scribing gauges / Height gauges	463–479
16	Hardness testers / (Coating) thickness gauges / (Infrared) thermometers Tachometers / Dynamometers / Inspection instruments	480–500
17	Measuring instrument displays and interfaces	501–507
18	DeMeet 3D CNC coordinate measuring machines DF fixture system / Alufix fixture system	508–526
19	Probes and probe systems	527–534
	Index	535–542
	Terms of sales and delivery	543

C00.209.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Magnescale digital length measuring and gauge systems



C01.001.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Magnescale SJ700A scale systems with favourable price-performance ratio

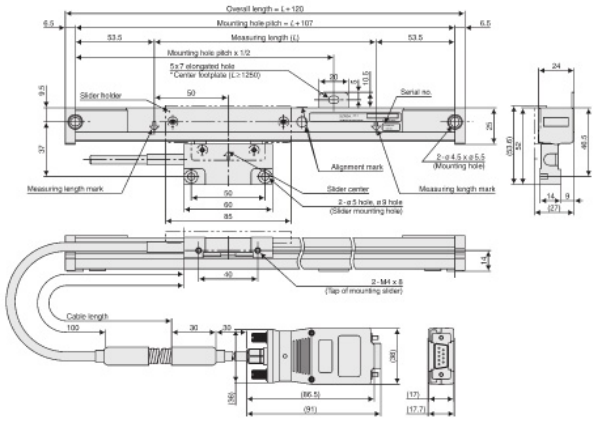
The SJ700A scales are an excellent choice for applications (lathes, milling machines) where a resolution of 5 µm is sufficient. A real Magnescale with a favourable price-performance ratio.

- Measuring range: 0 - 1600 mm.
- Highest resolution: 5 µm.
- Accuracy at 20°C:
  $L \leq 1250$ mm: ± 10 µm,
  $L \leq 1600$ mm: ± 15 µm.
- Linear expansion coefficient: $(12 \pm 1) \cdot 10^{-6}$/°C.
- Operating temperature: 0 to 40°C.
- Cross-section: 24 x 25 mm.
- Total length = L + 120 mm.
- Cable length (standard):
  $L \leq$ 800 mm: 3 m,
  $L \leq$ 1600 mm: 5 m.
- Resistant to oil, chips and shocks, and reliable in the harshest environments.
- Protection: IP54.

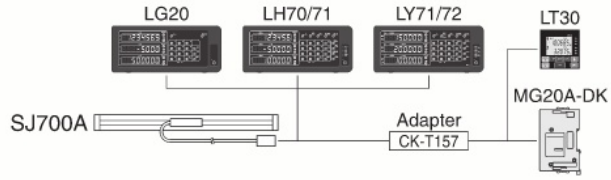
Item No.	Type	Measuring range/mm	Price EUR
346.823	SJ700A-015	150	394.00
346.824	SJ700A-025	250	394.00
346.825	SJ700A-035	350	394.00
346.826	SJ700A-040	400	407.00
346.827	SJ700A-050	500	429.00
346.828	SJ700A-065	650	462.00
346.829	SJ700A-080	800	497.00
346.830	SJ700A-095	950	602.00
346.831	SJ700A-105	1050	666.00
346.832	SJ700A-125	1250	783.00
346.833	SJ700A-140	1400	915.00
346.834	SJ700A-160	1600	1,112.00
495.302	Mounting kit for lathes		93.00
495.303	Mounting kit for milling machines		128.00
346.867	Adapter cable CK-T157		89.00
For connecting to old display types*:			
346.926	Adapter cable CE30		81.00
346.448	Adapter SZ51-AB01		84.00

* LG10, LH51/52, LH61 and LY51/52.
Both adapter cable and adapter are needed.

Dimensions



Configuration





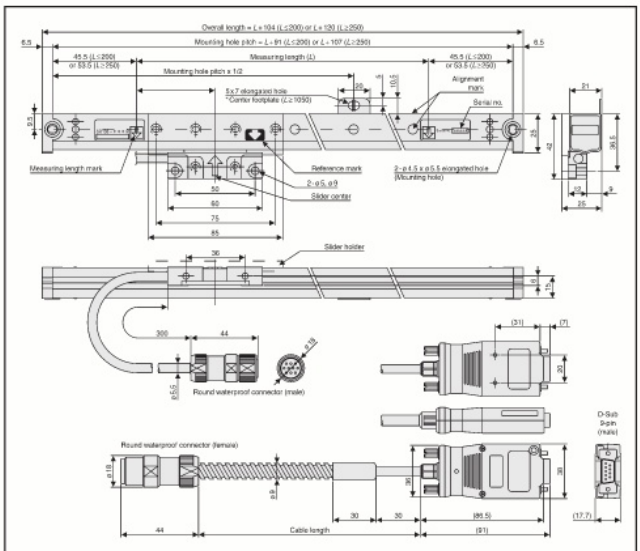


C01.205.EN.20230516

Magnescale GB-ER universal scale systems

The GB-ER beats all competition. An excellent resistance against workshop conditions (oil, chips and shocks), a high resolution (0.5 µm) and an expansion coefficient the same as the machine itself. Reliable for many years and almost maintenance free as all magnetic scales of Magnescale.

- Measuring range: 0 - 2200 mm.
- Highest resolution: 0.5 µm.
- Accuracy at 20°C: $\pm(2.5+2.5L)$ µm (L in m).
- Max. measuring speed: 60 m/min.
- Output: A/B phase and reference point Z (TTL line driver RS422).
- Linear expansion coefficient: $(11\pm1)\cdot10^{-6}$/°C.
- Operating temperature: 0 to 40°C.
- Cross-section: 21 x 25 mm.
- Total length =
  $L \leq$ 200 mm: $L+104$ mm,
  $L \leq 2200$ mm: $L+120$ mm.
- Cable length: 3 m.
- Reference point in the center (standard).
- Protection: IP65.
- Power supply: $5^{\pm5\%}$ Vdc, 200 mA.

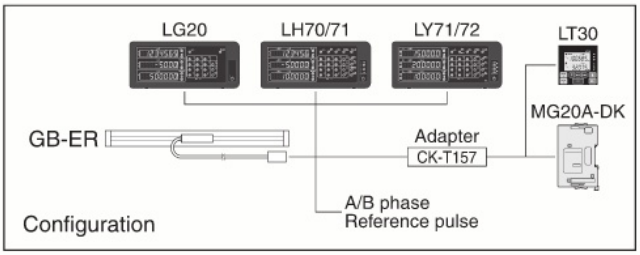


Dimensions



Item No.	Type	Measuring range/mm	Price EUR
346.800	GB-5ER	50	525.00
346.801	GB-10ER	100	525.00
346.802	GB-15ER	150	525.00
346.803	GB-20ER	200	525.00
346.804	GB-25ER	250	525.00
346.805	GB-30ER	300	525.00
346.806	GB-35ER	350	525.00
346.807	GB-40ER	400	583.00
346.808	GB-45ER	450	628.00
346.809	GB-50ER	500	677.00
346.810	GB-55ER	550	725.00
346.811	GB-60ER	600	772.00
346.812	GB-65ER	650	820.00
346.813	GB-75ER	750	915.00
346.814	GB-85ER	850	1,022.00
346.815	GB-95ER	950	1,143.00
346.816	GB-105ER	1050	1,247.00
346.817	GB-125ER	1250	1,442.00
346.818	GB-140ER	1400	1,608.00
346.819	GB-160ER	1600	1,795.00
346.820	GB-185ER	1850	2,066.00
346.821	GB-205ER	2050	2,328.00
346.822	GB-220ER	2200	2,525.00
324.099	Lubricant 300 ml		9.90

For mounting kits refer to SJ700A.



Item No.	Type	Length/m	Price EUR
Extension cables:			
346.260	CE10-01C	1	141.00
346.261	CE10-03C	3	141.00
346.262	CE10-05C	5	168.00
346.263	CE10-10C	10	259.00
346.867	Adapter cable CK-T157		89.00
For connecting to old display types*:			
346.926	Adapter cable CE30		81.00
346.448	Adapter SZ51-AB01		84.00

* LG10, LH51/52, LH61 and LY51/52.
Both adapter cable and adapter are needed.

C01.206.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

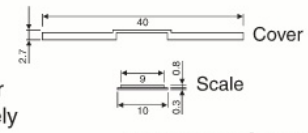
Magnescale Digiruler SL130 scale systems for a large measuring range

The Digiruler SL130 is very suitable as a low-priced longitudinal axis scale, for example in combination with the SJ700A or GB-ER scales on the other axes. The scale is mounted with the self-adhesive back on a flat surface and protected by a standard supplied aluminum (optionally stainless steel) cover.

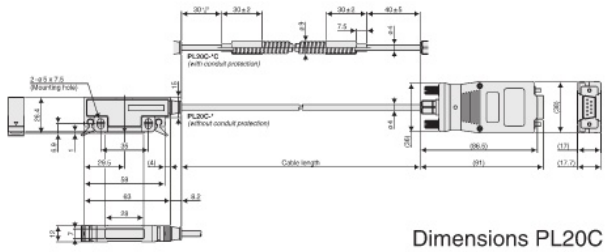
- Measuring range: 0 - 30 000 mm.
- Highest resolution: 0.01 mm.
- Accuracy at 20°C (L in m):
  $L \leq$ 7 000 mm: $\pm(25 + 5L)$ µm,
  $L \leq$ 10 000 mm: $\pm(35 + 5L)$ µm,
  $L \leq$ 20 000 mm: $\pm(45 + 5L)$ µm,
  $L \leq$ 30 000 mm: $\pm(55 + 5L)$ µm.
- The maximum allowed distance between reading head and scale is 1.5 mm.
- Max. measuring speed: 300 m/min.
- Total length = L + 100 mm.
- Protection: IP65.
- SL130 scales standard supplied with aluminum cover.



Aluminum protection cover is also separately available.



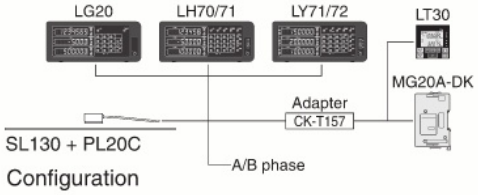
Dimensions SL130/331



Dimensions PL20C

Item No.	Measuring range/mm	Price EUR
Digiruler SL130 scales:		
345.920	200	130.00
345.921	300	132.00
345.922	400	135.00
345.923	500	139.00
345.924	600	149.00
345.925	700	166.00
345.926	800	179.00
345.928	1 000	212.00
345.930	1 200	254.00
345.933	1 500	299.00
345.936	1 800	330.00
345.938	2 000	362.00
345.948	3 000	540.00
345.958	4 000	708.00
345.968	5 000	870.00
345.978	6 000	1,025.00
345.988	7 000	1,191.00
345.998	8 000	1,351.00
346.008	9 000	1,524.00
346.018	10 000	1,678.00
346.028	20 000	3,310.00
346.038	30 000	5,520.00
344.922	Aluminum cover per meter, incl. bolts	27.50

Other lengths available on request.



Configuration

Item No.	Type	Length/m	Price EUR
PL20[1] without conduit protection:			
346.835	PL20C-3	3	310.00
346.836	PL20C-5	5	332.00
346.837	PL20C-10	10	430.00
346.838	PL20C-15	15	529.00
346.839	PL20C-20	20	590.00
346.840	PL20C-30	30	788.00
PL20[1] with stainless steel conduit protection:			
346.841	PL20C-3C	3	362.00
346.842	PL20C-5C	5	411.00
346.843	PL20C-10C	10	640.00
346.844	PL20C-15C	15	867.00
346.845	PL20C-20C	20	1,055.00
346.867	Adapter cable CK-T157		89.00
For connecting to old display types[2]:			
346.926	Adapter cable CE30		81.00
346.448	Adapter SZ51-AB01		84.00

[1] Cable unit consists of a reading head, a cable and a connector.
[2] LG10, LH51/52, LH61 and LY51/52. Both adapter cable and adapter are needed.



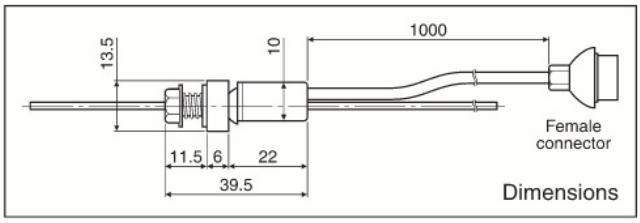
C01.209.EN.20230516

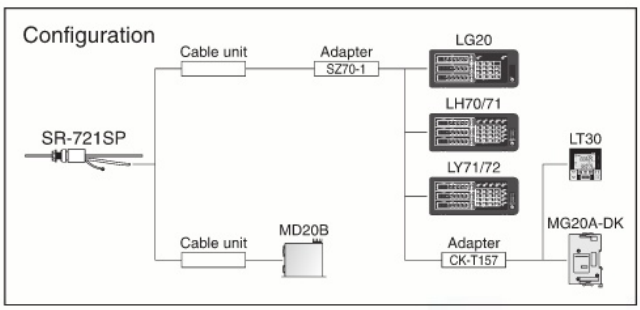
Magnescale SR-721SP scale systems for confined spaces

The SR-721SP is a real Magnescale, without housing. By fixing the reading head in place and displacing the scale through the reading head, the mounting size is minimal (for measuring microscopes, robotics and in cylinders).

- Measuring range: 0 - 475 mm.
- Highest resolution: 0.1 µm.
- Accuracy: ± 1 to 3 µm (depending on the measuring range), as specified on the laser measuring report.
- Linear expansion coefficient: $(14 \pm 1) \cdot 10^{-6}$/°C.
- Total length = $L + 100$ mm.
- Standard supplied with braided cable (1 m) and connector.
- Connecting cable unit has to be ordered separately.
- Dimensions reading head (without mounting plate): 14 x 16 x 40 mm.
- Measuring axis: ø 2 mm.

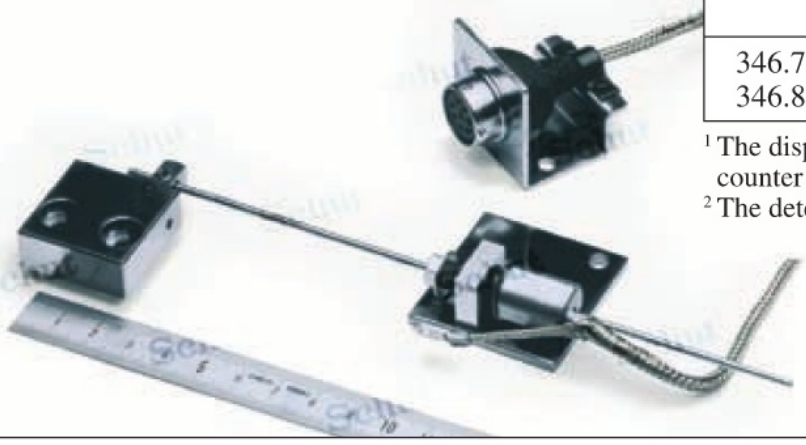
Item No.	Measuring range/mm	Price EUR
Magnescale SR-721SP scales:		
344.160	50	624.00
344.161	75	641.00
344.162	100	659.00
344.163	125	676.00
344.164	150	693.00
344.165	175	711.00
344.167	200	718.00
344.168	225	728.00
344.169	250	735.00
344.170	275	749.00
344.171	300	768.00
344.172	325	818.00
344.173	350	839.00
344.140	375	860.00
344.141	400	881.00
344.142	425	902.00
344.143	450	923.00
344.144	475	944.00





Item No.	To	Length/m	Price EUR
Standard cables:			
324.005	Displays[1]	3	215.00
324.006	Displays[1]	5	221.00
324.007	Displays[1]	10	236.00
324.695	Detectors[2]	3	96.00
324.696	Detectors[2]	5	101.00
324.697	Detectors[2]	10	116.00
Cables with stainless steel conduit protection:			
324.000	Displays[1]	3	264.00
324.698	Displays[1]	5	307.00
324.001	Displays[1]	10	357.00
324.002	Detectors[2]	3	152.00
324.699	Detectors[2]	5	188.00
324.003	Detectors[2]	10	258.00
324.004	Extension cable (10 m) for all cables		285.00
346.793	Adapter SZ70-1[1]		124.00
346.867	Adapter cable CK-T157[1]		89.00

[1] The displays LG20, LH70/71, LY71/72, LT30 and the counter module MG-DK.
[2] The detector MD20B.



C01.212.EN.20230516

Magnescale gauge systems

The Magnescale LU20 is a portable display to read out the Magnescale DM10 digital lever gauge or a Magnescale USB gauge (see Magnescale USB gauges elsewhere in this catalog). The LU20 has a lithium-ion battery with a very long operating life (up to 80 hours). With the standard included magnetic stand, the LU20 can be securely positioned. The 2.7" color touch-screen is easy to set up and displays, both digitally and through an analog pointer, very accurately any movements with a resolution starting at 0.1 µm. By setting tolerance limits, Go and NoGo graphs can be displayed.

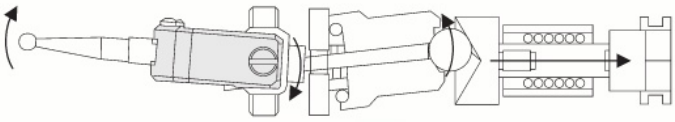
The LU20 has the following functions: current, max, min, max-min, and tolerance value display, and even a graphical display of straightness and roundness. This makes the LU20 extremely useful for evaluating geometry and the alignment of mechanical parts. Data can be sent using the Bluetooth transmitter. To utilize this, apps are available for IOS-, Android- and Windows operating systems. Storage of data is possible by using a MicroSD card.

LU20

- USB Type-A connector gauge input.
- Storage for min, max, and max-min values.
- Reset/preset.
- Zero setting possible at any position.
- Measure with or without tolerance limits; Go/Nogo displayed.
- Bluetooth data transfer, storage on MicroSD card.
- USB Type-C connector rechargeable lithium-ion battery (charger not included).
- Key lock.
- Operating temperature: 0 - 40°C.
- Battery operating life: 80 hours (DM10), 8 hours (USB gauge).
- Dimensions: 64(W) x 40(D) x 91(H) mm.
- **Standard included:** Magnetic stand, extension cable, manual, 2 lithium-ion batteries (interchangeable).

DM10

- Measuring range: 346.423: 1 mm, 346.424: 2 mm.
- Stylus length: 346.423: 11 mm, 346.424: 41 mm.
- Resolution: 346.423: 0.1 µm, 346.424: 0.2 µm.
- Cable length: 200 mm.
- Connector: USB Type-A.

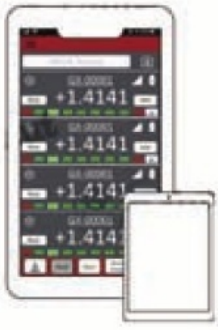


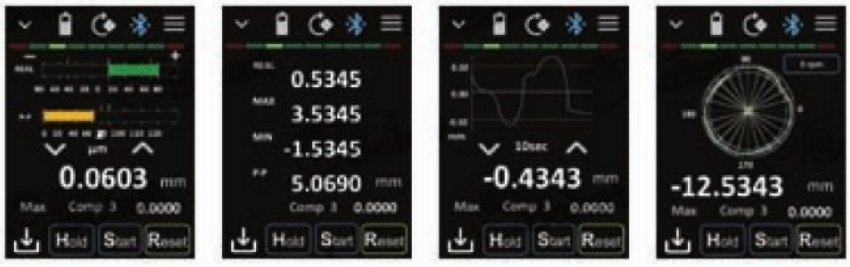


346.425
+ 346.423



USB probe





Item No.	Type/description	Price EUR
346.425	LU20 display	
346.423	DM10-01 electronic probe	
346.424	DM10-02 electronic probe	

C01.334.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Magnescale digital dial indicators

By using the same display as the LU20, this very robust Magnescale DU10 digital dial indicator offers the same functions. This means that graphs are shown directly and in real-time, as well as that data can be stored, or sent through Bluetooth. To utilize this, apps are available for IOS-, Android- and Windows operating systems. Storage of data is possible by using a MicroSD card. The DU10 digital dial indicator has an exceptionally high accuracy suitable for high precision measurements, but is also very suitable for use in the workshop due to its robust construction.

DU10-12/DU10-30

- Measuring range: 0 - 30.
- Resolution: 346.426: 0.1 µm
  346.427: 0.5 µm.
- Storage for min, max, and max-min values.
- Reset/preset.
- Zero setting possible at any position.
- Measure with or without tolerance limits; Go/No-Go displayed.
- Bluetooth data transfer, storage on MicroSD card.
- USB Type-C connector rechargeable lithium-ion battery (charger not included).
- Key lock.
- Operating temperature: 0 - 40°C.
- Dimensions: 64(W) x 49(D) x 156(H) mm.



346.426

NEW

Schut

Item No.	Type/description	Measuring range/mm	Accuracy/µm	Price EUR
346.426	DU10-12 digital dial indicator	0 - 12	1	
346.427	DU10-30 digital dial indicator	0 - 30	1.5	

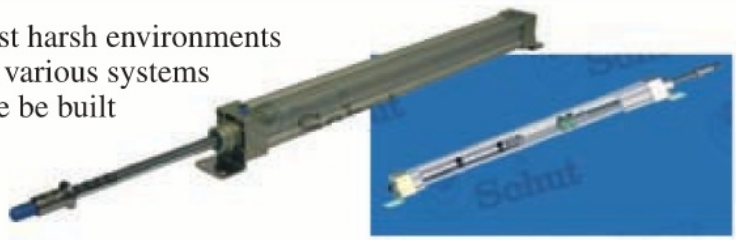
Magnescale Rolling Mill

Magnescale Rolling Mill is a feedback scale system used in rolling mills where metal is rolled into sheets and bars. Magnescale is a proven and reliable system, which is shock- and waterproof and resistant against high pressure.



Magnescale specials

Due to the slim design and resistance against harsh environments the Magnescale scales can be implemented in various systems and processes. The SR-721SP can for example be built into linear actuator cylinders.



© 2023, Schut Geometrische Meettechniek bv

Magnescale DK805SB/812SB gauges

The Magnescale DK gauges are developed using the MR (magnetoresistance) sensor principle and have direct A/B phase output. The MR technology enables a 0.1 µm detection resolution. The gauges have a built-in reference point at 1 mm from the idle point of the spindle. Various models are available, e.g. with pneumatic push or vacuum retract.

- Measuring range: 5 or 12 mm.
- Resolution: 0.1 or 0.5 µm.
- Accuracy (p-p) at 20°C: resolution 0.1 µm: 1 µm,
  resolution 0.5 µm: 1.5 µm.
- Max. measuring speed: resolution 0.1 µm: 42 m/min,
  resolution 0.5 µm: 100 m/min.
  Types with a higher measuring speed are available on request.
- Output: A/B phase and reference point Z (TTL line driver RS422).
- Cable length: 2.5 m (with extension cable: max. 22 m).
- Dimensions: ø8 x 79.6 mm (DK805SB) or ø8 x 105 mm (DK812SB).
- Measuring force at 20°C:
  DK805SB: upward: 0.35 ± 0.25 N,
  lateral: 0.4 ± 0.25 N,
  downward: 0.45 ± 0.25 N,
  DK812SB: upward: 0.4 ± 0.3 N,
  lateral: 0.5 ± 0.3 N,
  downward: 0.6 ± 0.3 N.
- Reference point.
- Clamping stem: ø8 mm.
- Protection: IP67.
- Resistant to oil, dirt, shocks and vibrations.
- Delivery incl. air fittings.
- Power supply: $5^{\pm 5\%}$ Vdc, 1 W.
- Also available with 30 mm measuring range (DK830S series).



DK812SBLR

DK812SBR



Ball spline structure.
Zero rotational backlash.

Type designation

DK8 05/12① SB –/F② –/L/V③ R –/5④

① Measuring range in mm.
② With (**F**) or without (**–**) flange.
③ Cable connection:
axial, with spring push (**–**),
radial, with vacuum retract (**L**), or
radial, with pneumatic push (**V**).
④ Resolution: 0.1 µm (**–**) or 0.5 µm (**5**).

Option for L types

Item No.	Description	Price EUR
344.465	Pneumatic retraction device DZ-801	162.00

Item No.	Type	Price EUR
Resolution 0.1 µm:		
346.512	DK805SBR	896.00
346.513	DK805SBLR	896.00
346.514	DK805SBFR	959.00
346.515	DK805SBFLR	959.00
346.516	DK812SBR	919.00
346.517	DK812SBLR	938.00
346.518	DK812SBFR	976.00
346.519	DK812SBFLR	990.00
346.520	DK812SBVR	990.00
Resolution 0.5 µm:		
346.521	DK805SBR5	692.00
346.522	DK805SBLR5	692.00
346.523	DK805SBFR5	786.00
346.524	DK805SBFLR5	786.00
346.525	DK812SBR5	721.00
346.526	DK812SBLR5	739.00
346.527	DK812SBFR5	810.00
346.528	DK812SBFLR5	823.00
346.529	DK812SBVR5	823.00

C01.310.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Magnescale DK10/25/50/100/155/205 gauges

The Magnescale DK gauges are developed using the MR (magnetoresistance) sensor principle and have direct A/B phase output. The gauges either have a spring push and a built-in reference point at 1 mm (DK10-100) or no spring push, and with a built-in reference point at 5 mm (DK155/205) from the idle point of the spindle.

- Measuring range: up to 205 mm.
- Resolution: 0.5 µm.
- Max. measuring speed: 250 m/min.
- Clamping stem: ø20 mm (DK155/205: ø32 mm).
- Output: A/B phase and reference point Z (TTL line driver RS422).
- Cable length: 2.5 m (with extension cable: max. 22 m).
- DK10-100: carbide ball tip ø2.5 mm. DK155/205: flat magnet ø22 mm (10 N) with in the center a ball ø4 mm.
- Reference point.
- Operating temperature: 0 to 50°C.
- Protection: IP50 or IP64.
- Resistant to shocks and vibrations.
- Power supply: $5^{\pm 5\%}$ Vdc, 1 W.



For measuring stands with clamping shaft ø 20 mm, ø 25 mm or ø 32 mm see measuring stands elsewhere in this catalog.



Type designation

DK 10/25/50/100/155/205① N/P② –/L③ R5

① Measuring range in mm.
② Protection: IP50 and with a reduced measuring force (**N**), or IP64 (**P**).
③ Cable connection: axial (**–**) or radial (**L**).

Item No.	Type	Accuracy p-p/µm	Measuring force[1]/N	Dimensions mm	Price EUR
346.853	DK10NR5[2]	2	0.3/0.6/0.8	ø20 x 122	836.00
346.854	DK10PR5	2	≤4.9	ø20 x 122	836.00
346.855	DK10PLR5	2	≤4.9	ø20 x 102.5	836.00
346.857	DK25NR5[2]	2	0.4/0.7/1	ø20 x 179.5	911.00
346.856	DK25NLR5[2]	2	0.4/0.7/1	ø20 x 160	911.00
346.858	DK25PR5	2	≤4.9	ø20 x 179.5	911.00
346.859	DK25PLR5	2	≤4.9	ø20 x 160	911.00
346.860	DK50NR5[2]	2	–/0.9/1.3	ø20 x 286	1,005.00
346.861	DK50PR5[2]	2	6.2	ø20 x 286	1,005.00
346.862	DK100NR5[2]	4	–/1.8/2.7	ø25 x 443.5	1,409.00
346.863	DK100PR5[2]	4	9.3	ø25 x 443.5	1,409.00
346.864	DK155PR5	5	2.7	ø32 x 571	1,600.00
346.865	DK205PR5	6	2.7	ø32 x 721	1,775.00

[1] In case of reduced measuring force (N types): measuring force upward, lateral and downward, respectively.
[2] **Also available as models with USB interface.**

C01.320.EN.20230516

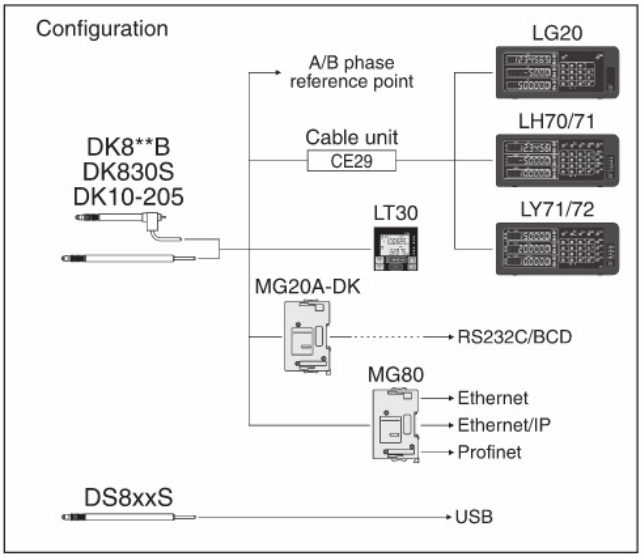
© 2023, Schut Geometrische Meettechniek bv

Cables and configuration Magnescale DK gauges

Item No.	Type	Length/m	Price EUR
Adapter cables:			
346.145	CE29-003	0.3	74.00
346.146	CE29-01	1	74.00
346.147	CE29-03	3	89.00
346.148	CE29-05	5	111.00
346.149	CE29-10	10	147.00

Item No.	Type	Length/m	Price EUR
Extension cables:			
346.741	CK-T12	1	79.00
346.742	CK-T13	3	102.00
346.743	CK-T14	5	125.00
346.744	CK-T15	10	181.00
346.745	CE22-01[1]	1	66.00
346.746	CE22-03[1]	3	81.00
346.747	CE22-05[1]	5	101.00
346.748	CE22-10[1]	10	144.00

[1] Open end, TTL line driver RS422.

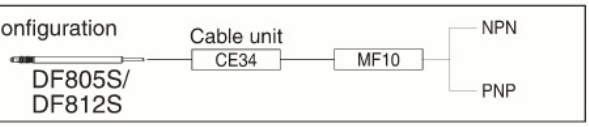


Magnescale DF805S/812S gauges + MF10 Digital Tolerance Indicator

The robust DF probes combine a high resolution with a compact body. The MF10 counter module is suitable for the DF and DT probes. The module has a clear display and can also generate Go/NoGo output.

- Measuring range: 5 or 12 mm.
- Resolution: 0.1 µm.
- Go/NoGo tolerance evaluation.





Item No.	Type	Price EUR
346.540	DF805SR	761.00
346.541	DF805SLR	800.00
346.542	DF805SFR	800.00
346.543	DF805SFLR	837.00
346.544	DF812SR	786.00
346.545	DF812SLR	827.00
346.546	DF812SFR	827.00
346.547	DF812SFLR	862.00

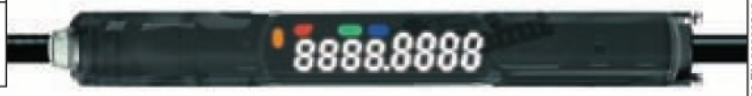
Type designation

DF8 05/12① S –/F② –/L③ R

① Measuring range in mm.
② With (**F**) or without (–) flange.
③ Cable connection:
axial, with spring push (–),
radial, with vacuum retract (**L**).

Item No.	Type	Length/m	Price EUR
Extension cables:			
346.548	CE34-005	0.5	46.00
346.549	CE34-02	2	68.00
346.550	CE34-05	5	90.00
346.551	CE34-10	10	124.00
346.552	CE34-15	15	170.00
346.553	CE34-20	20	204.00

Item No.	Type/description	Price EUR
346.414	MF10-P1 NPN output	209.00
346.415	MF10-P2 PNP output	209.00



C01.330.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Magnescale DS805S/812S USB gauges

Accurate and robust probes with USB interface for easy connection to a PC. Simple PC software for connecting the USB probe can be downloaded for free. Measured values can be displayed with the software and stored in a CSV file.

- Measuring range: 5 or 12 mm.
- Resolution: 0.5 µm (0.1 µm on request).
- Cable length: approx. 2.5 m.
- Reference point.
- Operating temperature: 0 to 50°C.
- Clamping stem: ø 8 mm.
- Resistant to oil, dirt, shocks and vibrations.
- Also available up to 100 mm measuring range.

Item No.	Type	Price EUR
346.090	DS805SLR5	583.00
346.089	DS805SR5	553.00
346.095	DS812SR5	570.00
346.096	DS812SLR5	599.00
346.097	DS812SVR5	626.00

Type designation

DS8 05/12① S –/F② –/L③ R
① Measuring range in mm. ② With (**F**) or without (**–**) flange. ③ Cable connection: axial, with spring push (**–**), radial, with vacuum retract (**L**), or radial, with pneumatic push (**V**).



Magnescale MT30 USB adapter for DT probes

Using the MT30 adapter, a DT probe can easily be connected to the USB port of a PC. The MT30-01 is suitable for DT512 probes. The MT30-05 is suitable for DT12 and DT32 probes. Simple PC software for connecting the USB probe can be downloaded for free. Measured values can be displayed with the software and stored in a CSV file.

Item No.	Type	Price EUR
346.418	MT30-01	250.00
346.419	MT30-05	215.00

Favourably priced set of a DT probe with MT30 adapter:

Item No.	Type	Price EUR
346.416	DT12N and MT30-05	360.00
346.417	DT12P and MT30-05	398.00

Sets are also available with DT32 and DT512 probes on request.





C01.331.EN.20230516

Magnescale DT gauges

These gauges are especially suitable for the built-in display LT10A (DT12/32) and LT11A (DT512). Together they form an economically favourable and very compact measuring system. The gauges DT512 are the same as the DT12 gauges, but have a resolution of 1 µm (in combination with the detector MT12 this is 5 µm).

- Measuring range: 12 mm or 32 mm.
- Highest resolution:
  DT12/32: 5 µm, DT512: 1 µm.
- Accuracy:
  DT12/32: ±5 µm, DT512: ±3 µm.
- Measuring force at 20°C:
  DT12/512N: upward: 0.7±0.5 N,
  lateral: 0.8±0.5 N,
  downward: 0.9±0.5 N,
  DT12/512P: ≤1.7 N,
  DT32N/NV: upward: 1.1±0.8 N,
  lateral: 1.3±0.8 N,
  downward: 1.5±0.8 N,
  DT32P: ≤2.9 N,
  DT32PV: ≤9 N.
- Spring push, except DT32NV/PV:
  pneumatic push.
- Cable length: 2 m.

- Dimensions *l* x *w* x *t* and weight (excl. cable unit):
  DT12/512N: 116 x 35 x 12 mm, 75 g,
  DT12/512P: 116 x 35 x 12 mm, 80 g,
  DT32N/P: 218 x 35 x 12 mm, 120 g,
  DT32NV/PV: 217.5 x 35 x 12 mm, 140 g.
- Protection DT12P/512P,
  DT32P/PV: IP64.

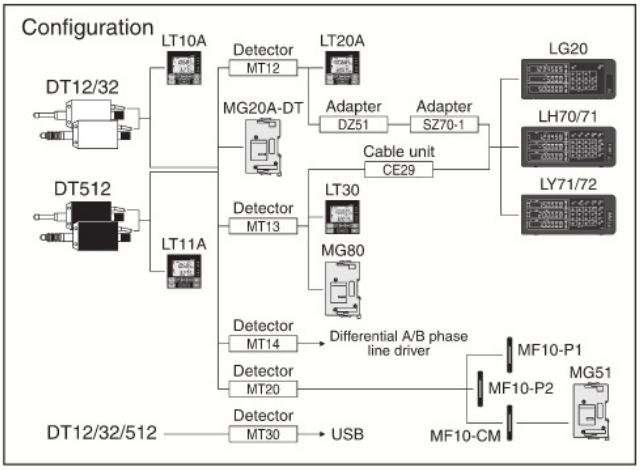


Item No.	Type	Measuring range/mm	Price EUR
344.855	DT12N	12	266.00
344.856	DT12P	12	311.00
346.495	DT32N	32	468.00
346.496	DT32P	32	519.00
346.497	DT32NV	32	584.00
346.498	DT32PV	32	637.00
344.853	DT512N	12	331.00
344.854	DT512P	12	392.00
346.477	Adapter DZ51		50.00
346.793	Adapter SZ70-1		124.00
346.145	CE29-003		74.00
344.426*	Pneumatic retraction device DZ176		227.00

* Only for the DT12 and DT512 gauges.

Item No.	Type	Length/m	Price EUR
Extension cables:			
346.136	CE08-1	1	55.00
346.137	CE08-3	3	77.00
346.138	CE08-5	5	101.00
346.139	CE08-10	10	157.00
346.140	CE08-15	15	213.00

Item No.	Type	Resolution µm	Price EUR
To LG20, LH70/71, LY71/72, LT20A:			
346.851	MT12-05	5	217.00
346.871	MT12-10	10	203.00
To LT30/MG80:			
346.872	MT13-01	1	280.00
346.852	MT13-05	5	217.00
346.873	MT13-10	10	203.00
A/B phase (TTL line driver RS422):			
346.874	MT14-01	1	280.00
346.875	MT14-05	5	217.00
346.876	MT14-10	10	203.00
334.684	AC adapter for MT14		22.00
To MF10:			
346.412	MT20-01	1	219.00
346.413	MT20-05	5	174.00



C01.322.EN.20230516

Magnescale MG modular multi-interface system

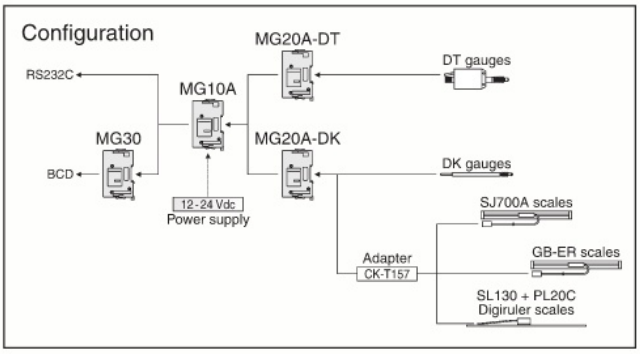
The MG-series is a modular multi-interface system designed to be incorporated into assembly lines and inspection equipment. Different MG modules with various outputs are available for the various Magnescale probes and scales. The MG10A/20A/30 interfaces are connectable via RS232C or BCD. Up to 16 MG20A modules can be linked to one MG10 module. Four MG10A modules can be connected, which enables output of measuring data of up to 64 gauges through one RS232C port or BCD via an additional MG30.

The MG40/50/80 series enables output through Ethernet, EtherCat, CC-link, RS232C, EthernetIP or Profinet. By connecting different modules multiple probes can be connected.

Ask for the detailed brochure

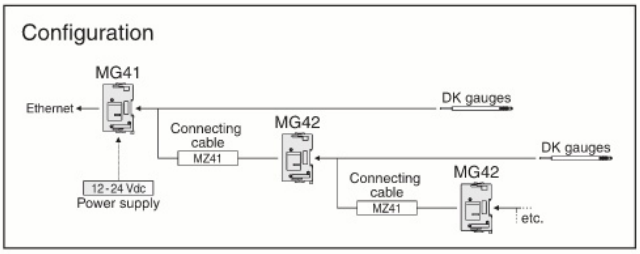


MG30+MG10A+6xMG20A





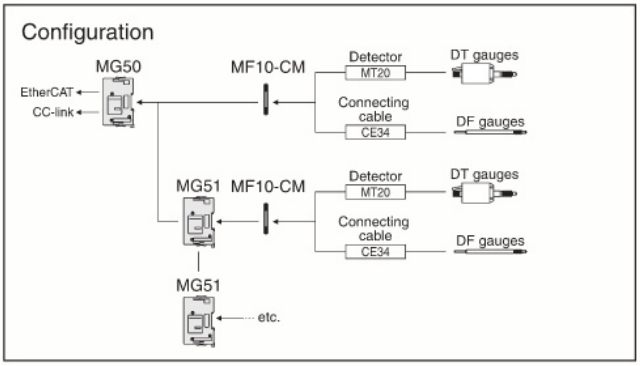
MG41+MG42



Schut

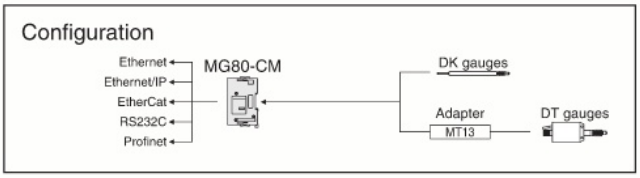


MG50+7xMF10





MG80-NE / EI / PN





MG80-EC / SC / CM

NEW

C01.332.EN.20230516

Retraction device DZ801

Pneumatic retraction device for the L type of the DK805/812 gauges.



Item No.	Type	Price EUR
344.465	DZ801	162.00

Retraction devices DZ174

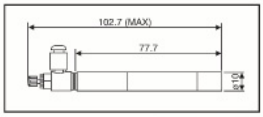
These pneumatic retraction devices are made for (DK) gauges with a clamping stem of ø20 mm. Working pressure: 30 - 50 N/cm^2.



Item No.	Type	For	Price EUR
344.416	DZ174-010	DK10	381.00
344.417	DZ174-025	DK25	381.00
344.418	DZ174-050	DK50	381.00

Retraction device DZ176

Retraction device for pneumatic push of the DT12 and DT512 gauges.





Item No.	Type	For	Price EUR
344.426	DZ176	DT12/512	227.00

Probe accessories



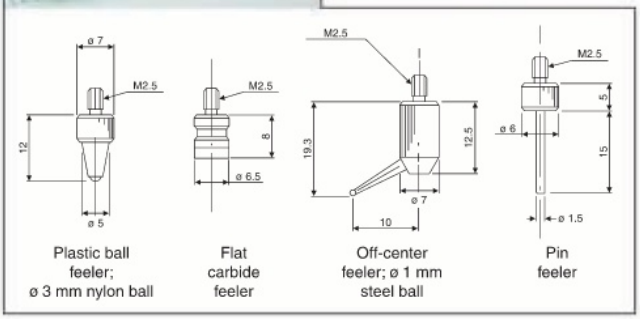












Item No.	Type/description		Price EUR
344.406	DZ210	Gauging bracket ø20 mm	116.00
344.470	DZ811	Adapting bush ø20 - ø8 mm	22.00
346.870	DZ161	Retraction lever bottom mounted with M2.5 thread	62.00
344.408	DZ170	Retraction device ø20 mm with lever	103.00
344.402	DZ100	Roller feeler	73.00
344.715	DZ181	Magnetic contact point ø22 mm for DK155/205	175.00
344.409	DZ5100	Set of 4 probes	200.00

C01.227.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Magnescale LG20 and LH70/71 display units

These Magnescale display units, for 1, 2 or 3 axes, have a clearly readable display, are easy to operate and equipped with many functions.

- For 1, 2 or 3 axes.
- Highest resolution: SJ700A: 5 µm, GB-ER: 0.5 µm, PL20C (Digiruler): 10 µm, SR-721SP: 0.5 µm, DK802/812: 0.1 µm, DK10 - 205: 0.5 µm, DT12/32/512: 5 µm.
- mm/inch conversion.
- Display: 7 digits, orange LED display and floating minus sign.
- Reset: resettable at any point on the scale.
- Preset: up to 3 values per axis.
- Recall: recall data stored by preset.
- Input: A/B phase (according EIA/RS422).
- Alarm signal for temporary power failure, exceeded max. measuring speed, error in stored data, disconnected scale or gauge and display overflow.
- Operating temperature: 0 to 40°C (with no condensation).
- Memory for the last display value and preset values at power loss.
- Diameter read-out.
- Linear error compensation: LG20 max. ±600 µm/m, LH70/71 max. ±1000 µm/m.
- Energy saving function.
- Power supply: 12 Vdc or 100 - 240 Vac (when using AC adapter).
- Power consumption: max. 32 VA.
- Dimensions: 289 x 123 x 80 mm.
- Weight: approx. 1.5 kg.

LH70/71 only:

- ABS/INC switchable. In the ABS mode the distance to the reference point is displayed.
- Midpoint calculation for centering purposes.
- Canned cycle functions (2-axes and 3-axes models): bolt hole circle function, line hole function (LH71 only), radius function for angles.
- Hold function: hold of display value and set as a tool offset value.
- Tool offset memory (3-axes models only): LH70: 12 values, LH71: 99 values.
- Addition function for two selectable axes: ±Z1 ±Z2 (3-axes models only).
- Reference point detection for scales with a fixed reference point.
- Reference point memory: LH70: 10 reference points, LH71: 150 reference points.

LH71 only:

- Read-out of arcs, highest resolution: 1" (Digiruler only).
- Segmented error compensation: max. ±600 µm/m, up to 32 sections (requires scale with reference point).
- Scaling function: display value = actual movement distance x scaling value 0.100000 - 9.999999.
- Program function:
  1) by manual input,
  2) by data storage while functioning (teach-in);
  3) by using mirror image function while running the program;
  4) by inserting canned cycle functions.



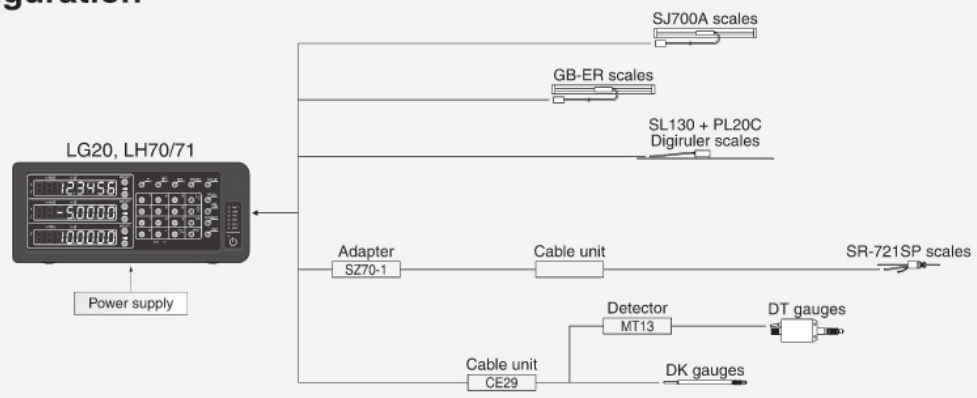
Item No.	Type/description	Price EUR
346.846	LG20-1 / 1 axis	513.00
346.847	LG20-2 / 2 axes	568.00
346.848	LG20-3 / 3 axes	661.00
346.774	LH70-1 / 1 axis	540.00
346.775	LH70-2 / 2 axes	607.00
346.776	LH70-3 / 3 axes	702.00
346.777	LH71-1 / 1 axis	714.00
346.778	LH71-2 / 2 axes	796.00
346.779	LH71-3 / 3 axes	916.00
346.780	AC adapter 12 Vdc, 3 A	75.00

C01.308.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

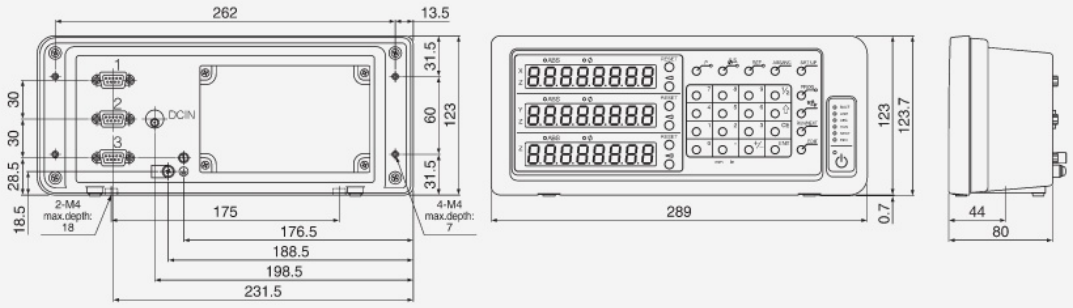
Magnescale LG20, LH70/71 and LY71/72 display units

■ Configuration



■ Dimensions

Size in mm



Magnescale MD20B detector (for SR-721SP)

Because not all Magnescale scales and gauges contain electronics, a detector is necessary as an interface to connect these sensors to the controls of a CNC system.

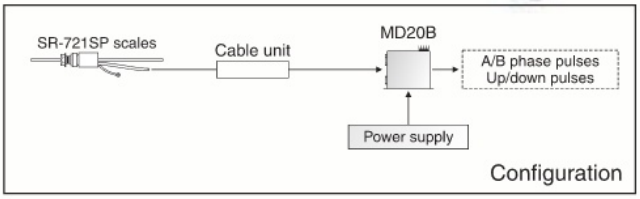
- Resolution: 0.1 - 0.2 - 0.5 - 1 - 2 - 2.5 - 4 - 5 - 10 µm.
- Output: A, B, Z, alarm, PCU, PCD, $\overline{A}$, $\overline{B}$, $\overline{Z}$, $\overline{alarm}$, $\overline{PCU}$, $\overline{PCD}$.
- Dimensions: 171 x 144 x 32 mm.
- Power supply: 5 Vdc, 400 mA.
- Standard supplied with Honda output connector.



MD20B

Item No.	Type/description	Price EUR
344.884	Detector box MD20B	736.00
430.115	Power supply, 94 - 264 Vac / 5 Vdc, 5 A*	183.00
344.878	Connector set reference point PZ001	28.00

* To connect per power supply: 10 pcs. MD20B.



Configuration

C01.333.EN.20230516

Magnescale LY71/72 display units

Multifunctional display units of which the LY71 is expandable with optional interchangeable expansion boards and the LY72 is equipped with an RS232C interface and programmable I/O connector.

- Highest resolution: SJ700A: 5 µm, GB-ER: 0.5 µm, PL20C (Digiruler): 10 µm, SR-721SP: 0.5 µm, DK802/812: 0.1 µm, DK10 - 205: 0.5 µm, DT12/32/512: 5 µm.
- mm/inch conversion.
- ABS/INC switchable. In the ABS mode the distance to the reference point is displayed.
- Display: 7 digits, orange LED display and floating minus sign.
- Display data: current/min/max/P-P values (LY72 applications with scale: only current).
- Preset/reset/restart.
- Input: A/B phase (according EIA/RS422).
- Alarm signal for temporary power failure, exceeded max. measuring speed, error in stored data, disconnected scale or gauge and display overflow.
- Operating temperature: 0 to 40°C (with no condensation).
- Memory for the last display value and preset values at power loss.
- Two hold functions: hold of display value (while latched) and peak calculation hold (while paused). LY72 applications with scale: only hold of display value.
- Peak hold function convenient for statistical measurement.
- External input functions for automatic measurement.
- Multiplier function: display value = actual movement distance x multiplier 0.100000 - 9.999999.
- Linear error compensation: max. ± 1000 µm/m.
- Power supply: 12 Vdc or 100 - 240 Vac (when using AC adapter).
- Power consumption: max. 32 VA.
- Dimensions: 289 x 123 x 80 mm.
- Weight: approx. 1.5 kg.

LY71 only:

- Input for 1 or 2 axes.
- Addition function.
- Optional expansion boards.

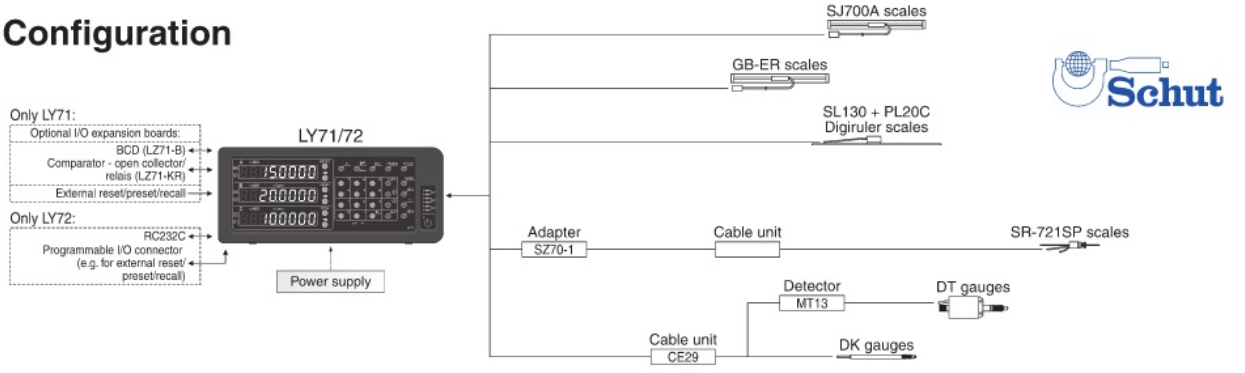
LY72 only:

- Up to 3 axes can be connected.
- RS232C data output.

Item No.	Type/description	Price EUR
346.849	LY71	999.00
346.850	LY72	1,981.00
346.780	AC adapter 12 Vdc, 3 A	75.00
Options LY71:		
346.868	BCD-I/O board LZ71-B	280.00
346.869	Comparator I/O open collector/relay LZ71-KR	408.00
Options LY72:		
495.169	RS232C cable for PC connection (D sub 9 pin)	28.70
264.505	Mitutoyo DP-1VA SPC printer [1]	535.00
348.042	RS232C→Mitutoyo interface [2]	51.00
900.825	Printing paper (5 rolls)	35.00

[1] Incl. AC adapter (6 Vdc) and a roll of printing paper.
[2] Makes e.g. the Magnescale signal suitable for the SPC printer (495.169 required).

■ Configuration



C01.316.EN.20230516

Magnescale LT10A/11A display units

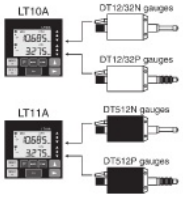
Very compact display unit, which is easy to install into measuring systems due to its small size. Display unit with one or two DT12/32 (LT10A) or DT512 (LT11A) measuring gauge connections and several functions and output signals.

- Highest resolution: 5 µm (LT10A) or 1 µm (LT11A).
- Illuminated LCD display with 5 digits and floating minus sign.
- Output: BCD (type B), RS232C (type C).
- Reset/preset.
- Min/max/P-P function, recall function.
- Addition function: ±A±B (2-axes models).
- Comparator values for Go/NoGo indication and output signals (open collector). The BCD models have 4 different preset selections.
- Max. measuring speed: 60 m/min.
- Dimensions: 72 x 72 x 80 mm.
- Weight: 200 - 270 g.
- Power supply: 12 - 24 Vdc (max. 9 W).

Item No.	Type/description	Price EUR
Display unit for 1 measuring gauge:		
344.857	LT10A-105	473.00
344.858	LT10A-105B (BCD)	784.00
344.859	LT10A-105C (RS232C)	692.00
344.863	LT11A-101	545.00
344.864	LT11A-101B (BCD)	902.00
344.865	LT11A-101C (RS232C)	795.00
Display unit for 2 measuring gauges:		
344.860	LT10A-205	739.00
344.861	LT10A-205B (BCD)	1,260.00
344.862	LT10A-205C (RS232C)	1,061.00
344.866	LT11A-201	850.00
344.867	LT11A-201B (BCD)	1,449.00
344.868	LT11A-201C (RS232C)	1,220.00
334.695	Mini AC adapter 12 Vdc, 1 A	29.00
Options:		
348.276	Stand-alone housing with on/off switch	101.00
348.122	RS232C cable for PC connection (D sub 9 pin)	46.00




Stand-alone housing LT10A/11A



Configuration



Front

C01.324.EN.20230516

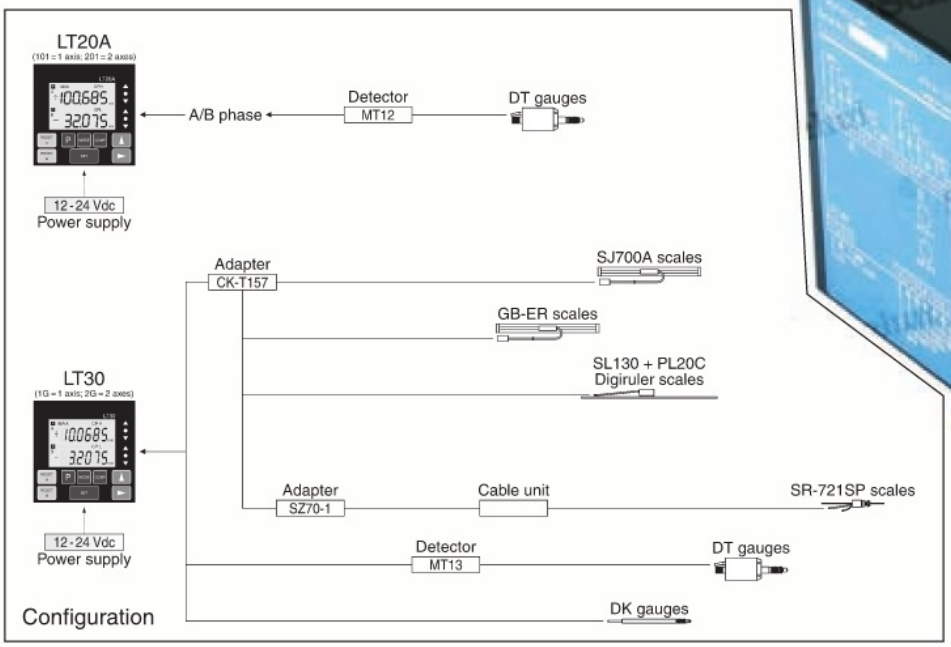
© 2023, Schut Geometrische Meettechniek bv

Magnescale LT20A/30 display units

Very compact display unit, which is easy to install into measuring systems due to its small size. Can be used for many Magnescale scales and gauges.

- Highest resolution: 0.5 µm (LT20A) or 0.1 µm (LT30).
- Display: backlight LCD display with 6 digits, floating minus sign and mode indication.
- Measuring mode setting by key switch or external signal.
- Input: A/B phase (10p DIN plug). Output: BCD (type B), RS232C (type C).
- Terminal connection: Input: reset, peak-hold start, preset, recall. Output: Go/NoGo.
- Reference point detection (only LT30).
- Alarm signals.
- Data storage of: resolution, measuring direction, preset value, tolerance limits, measuring mode, BCD logic (positive/negative) and RS232C communication parameters.
- Reset/preset/recall.
- Min/max/P-P function.
- Addition function: ±A±B (2-axes models).
- Comparator values for Go/NoGo indication and output signals (open collector). The BCD models have 4 different preset selections.
- Dimensions: LT20A: 72 x 72 x 104.5 mm, LT30: 72 x 72 x 71.8 mm.
- Weight: 200 - 270 g.
- Power supply: 12 - 24 Vdc (max. 9 W).

Item No.	Type/description	Price EUR
Display unit for 1 measuring gauge:		
346.460	LT20A-101	591.00
346.461	LT20A-101B (BCD)	980.00
346.462	LT20A-101C (RS232C)	860.00
346.787	LT30-1G	596.00
346.788	LT30-1GB (BCD)	938.00
346.789	LT30-1GC (RS232C)	855.00
Display unit for 2 measuring gauges:		
346.463	LT20A-201	884.00
346.464	LT20A-201B (BCD)	1,498.00
346.465	LT20A-201C (RS232C)	1,266.00
346.790	LT30-2G	889.00
346.791	LT30-2GB (BCD)	1,361.00
346.792	LT30-2GC (RS232C)	1,243.00
334.695	Mini AC adapter 12 Vdc, 1 A	29.00
Options:		
348.276	Stand-alone housing with on/off switch	101.00
348.122	RS232C cable for PC connection (D sub 9 pin)	46.00





C01.327.EN.20230516

Calipers / Depth calipers and micrometers



C02.001.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Absolute digital calipers

Calipers with an absolute measuring system for easy incremental and absolute conversion.

- Measuring range: 0 - 300 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- ABS/INC switchable.
- On/off switch.
- Reset.
- Large LCD display.
- Thumb wheel/locking screw/flat depth rod.
- Power supply: 1 battery type V357.



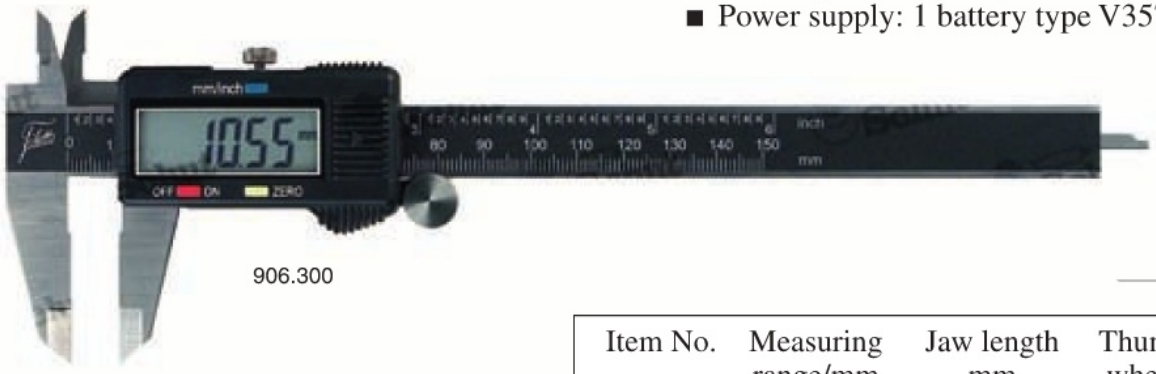
906.480

PRICE

Item No.	Measuring range/mm	Jaw length mm	Thumb wheel	Price EUR
906.480	0 - 150	40	yes	30.00
906.481	0 - 200	50	yes	42.00
906.482	0 - 300	60	yes	74.00
Option:				
836.535	Spare battery			0.80

Digital calipers with excellent price-performance ratio

- Measuring range: 0 - 300 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Large LCD display (except 906.483/484).
- Thumb wheel (except 906.299/483/484).
- Locking screw/flat depth rod.
- Power supply: 1 battery type V357.



906.300

PRICE



906.299

Item No.	Measuring range/mm	Jaw length mm	Thumb wheel	Price EUR
906.483	0 - 75	30	no	28.00
906.484	0 - 100	30	no	28.00
906.300	**0 - 150**	**40**	**yes**	**29.10**
906.302	0 - 200	50	yes	40.00
906.304	0 - 300	60	yes	68.00
Left-handed model:				
906.299	0 - 150	40	no	64.00
Option:				
836.535	Spare battery			0.80

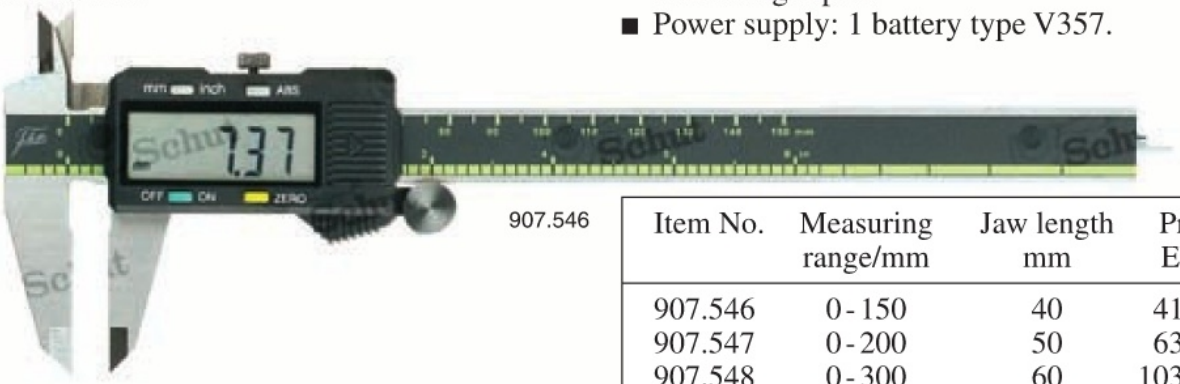
C02.202.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Absolute digital calipers

Calipers with an absolute measuring system for easy incremental and absolute conversion. The advantage of these calipers is the one-time setting of the absolute zero position until the battery has to be changed. This reduces the chance of measuring errors and enables you to use the calipers without having to reset the zero position at every use.

- Measuring range: 0 - 300 mm.
- Resolution: 0.01 mm.
- Accuracy: ±0.03 mm.
- mm/inch conversion.
- ABS/INC switchable.
- On/off switch.
- Automatic switch-off.
- Reset.
- Large LCD display.
- Thumb wheel/locking screw/flat depth rod.
- Delivery in a plastic case with a manufacturer measuring report.
- Power supply: 1 battery type V357.



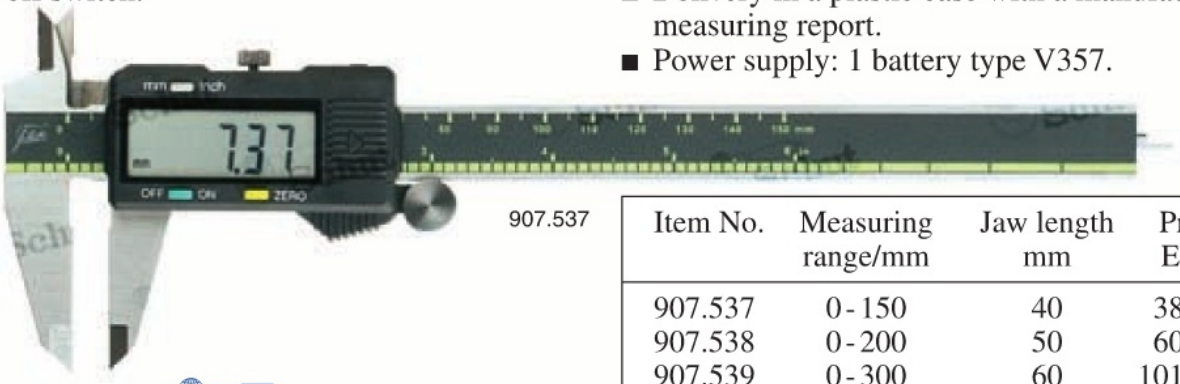
907.546

Item No.	Measuring range/mm	Jaw length mm	Price EUR
907.546	0 - 150	40	41.00
907.547	0 - 200	50	63.00
907.548	0 - 300	60	103.00
Option:			
836.535	Spare battery		0.80

Digital calipers

The advantage of these calipers is the one-time setting of the absolute zero position until the battery has to be changed. This reduces the chance of measuring errors and enables you to use the calipers without having to reset the zero position at every use.

- Measuring range: 0 - 300 mm.
- Resolution: 0.01 mm.
- Accuracy: ±0.03 mm.
- mm/inch conversion.
- On/off switch.
- Automatic switch-off.
- Reset.
- Large LCD display.
- Thumb wheel/locking screw/flat depth rod.
- Delivery in a plastic case with a manufacturer measuring report.
- Power supply: 1 battery type V357.



907.537

Item No.	Measuring range/mm	Jaw length mm	Price EUR
907.537	0 - 150	40	38.80
907.538	0 - 200	50	60.00
907.539	0 - 300	60	101.00
Option:			
836.535	Spare battery		0.80

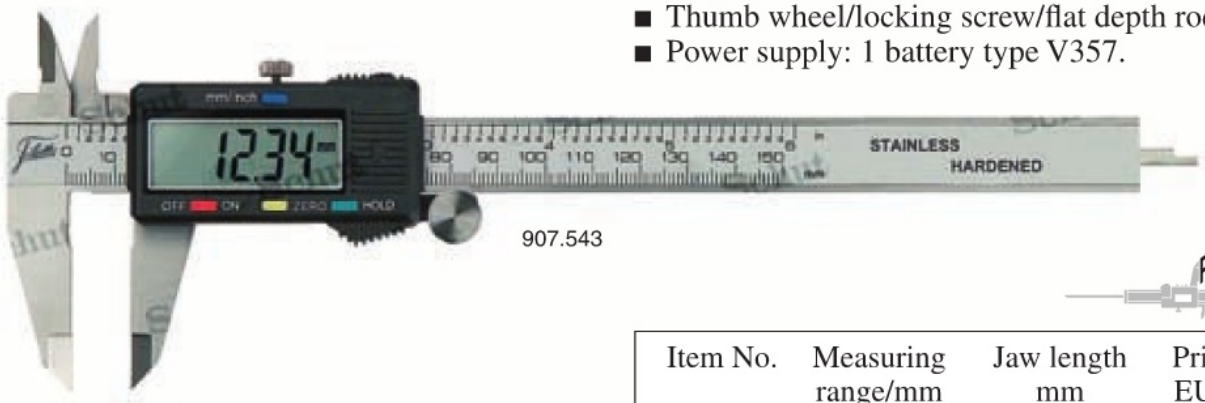
C02.301.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital calipers with hold function

Digital calipers with a function to hold the display value at any position.

- Measuring range: 0 - 300 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Hold function.
- Large LCD display.
- Thumb wheel/locking screw/flat depth rod.
- Power supply: 1 battery type V357.



907.543

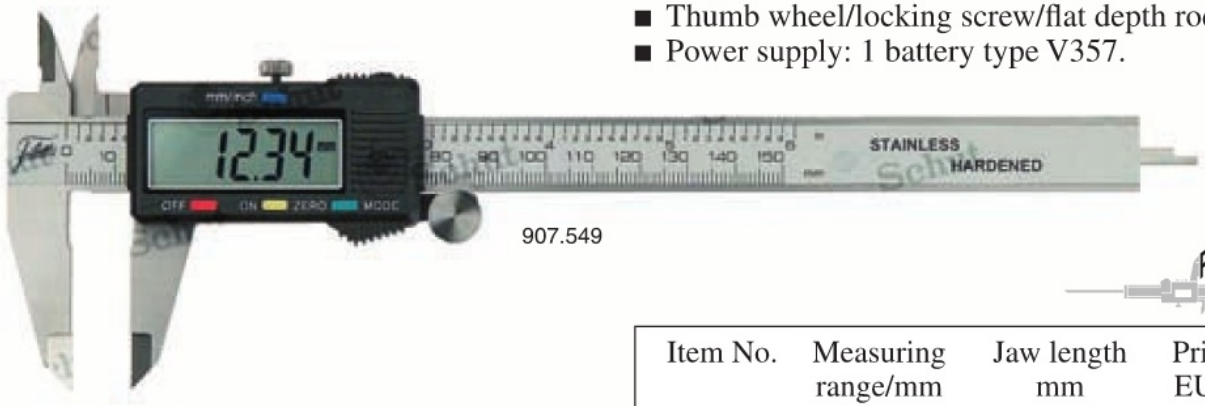
PRICE

Item No.	Measuring range/mm	Jaw length mm	Price EUR
907.543	0 - 150	40	33.70
907.544	0 - 200	50	41.00
907.545	0 - 300	60	75.00
Option:			
836.535	Spare battery		0.80

Digital calipers with min/max function

By keeping the mode button pressed you can hold the minimum and maximum measuring values.

- Measuring range: 0 - 300 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Min/max function.
- Large LCD display.
- Thumb wheel/locking screw/flat depth rod.
- Power supply: 1 battery type V357.



907.549

PRICE

Item No.	Measuring range/mm	Jaw length mm	Price EUR
907.549	0 - 150	40	34.20
907.550	0 - 200	50	43.00
907.551	0 - 300	60	76.00
Option:			
836.535	Spare battery		0.80

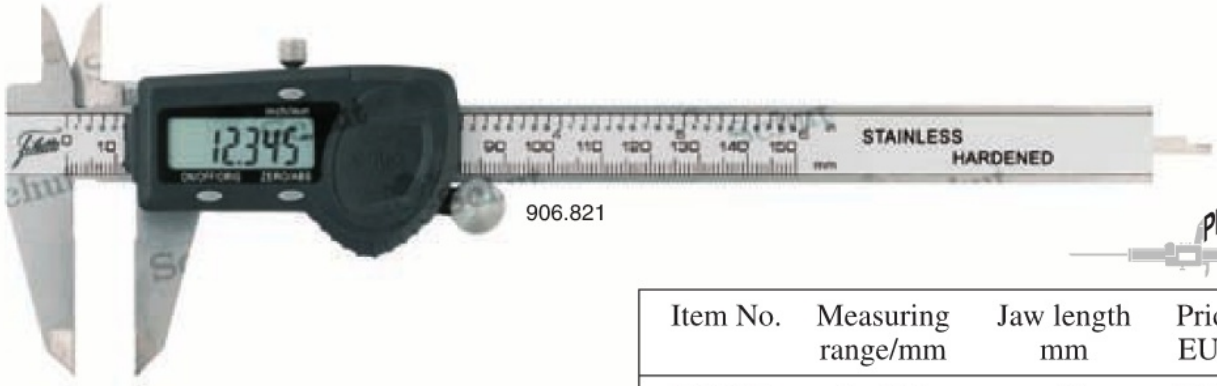
C02.302.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital calipers 0.005 mm

Calipers with a higher resolution and a measuring range up to 300 mm.

- Measuring range: 0 - 300 mm.
- Resolution: **0.005 mm**.
- Accuracy: ±0.03 mm.
- mm/inch conversion.
- ABS/INC switchable.
- On/off switch.
- Automatic switch-off.
- Reset.
- Thumb wheel/locking screw/flat depth rod.
- Power supply: 1 battery type CR2032.



906.821

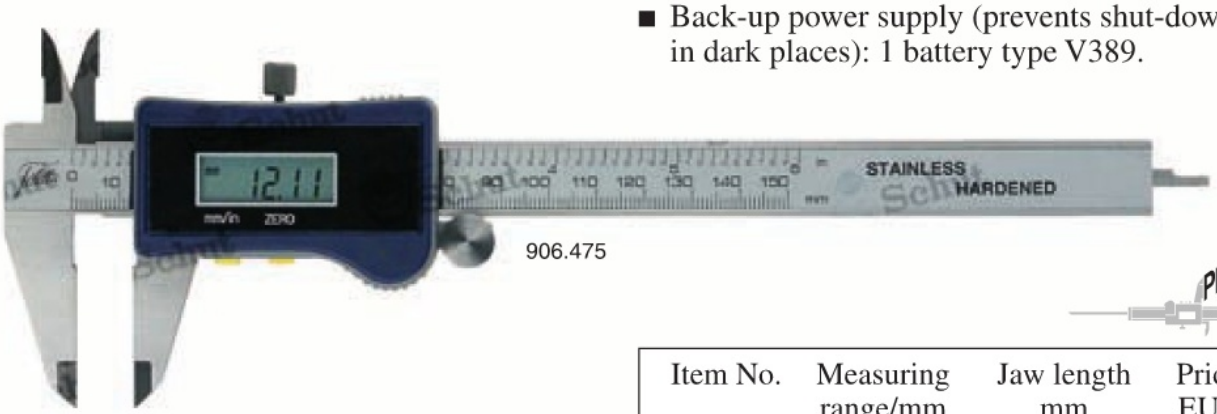
PRICE

Item No.	Measuring range/mm	Jaw length mm	Price EUR
906.821	0 - 150	40	71.00
906.822	0 - 200	50	86.00
906.823	0 - 300	60	145.00
Option:			
495.157	Spare battery		0.40

Digital solar calipers

The solar power supply functions already with a low illumination level.

- Measuring range: 0 - 300 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- Automatic switch-off.
- Reset.
- Thumb wheel/locking screw/flat depth rod.
- Back-up power supply (prevents shut-down in dark places): 1 battery type V389.



906.475

PRICE

Item No.	Measuring range/mm	Jaw length mm	Price EUR
906.475	0 - 150	40	52.00
906.492	0 - 200	50	85.00
906.493	0 - 300	60	135.00
Option:			
498.823	Spare battery		2.40

C02.317.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital calipers with glass ruler

Equipped with a glass ruler. Very smooth displacement by non-contact movement.

- Measuring range: 0 - 300 mm.
- Resolution: 0.01 mm.
- Accuracy: ±0.03 mm.
- mm/inch conversion.
- ABS/INC switchable (only 909.443/444/445).
- With data output.
- On/off switch.
- Automatic switch-off.
- Reset.
- Large LCD display.
- Thumb wheel/locking screw/flat depth rod.
- Delivery in a plastic case with a manufacturer measuring report.
- Power supply: 1 battery type CR2025.



909.440



909.440


909.446

PRICE

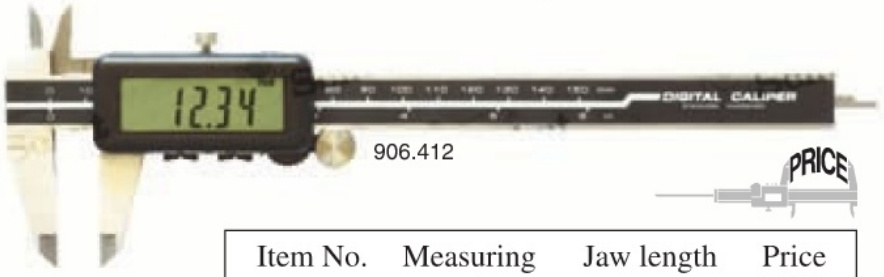
Item No.	Measuring range/mm	Jaw length mm	Price EUR
909.440	0 - 150	40	47.00
909.441	0 - 200	50	69.00
909.442	0 - 300	60	112.00
Absolute calipers:			
909.443	0 - 150	40	52.00
909.444	0 - 200	50	73.00
909.445	0 - 300	60	119.00
Options:			
495.214	Spare battery		0.40
909.446	USB interface		143.00
909.687	Footswitch for USB interface		18.50

USB interface:
- For data transfer to PC (e.g. Excel, Word).
- Operating system: Windows and other.
- PC connection: USB.
- No software or driver to install.
- Foot switch (optional).

Digital calipers with tolerance function

Digital calipers with a function to set tolerance limits with Go/NoGo reading.

- Measuring range: 0 - 300 mm.
- Resolution: 0.01 mm.
- Accuracy: ±0.03 mm.
- mm/inch conversion.
- With data output.
- Tolerance function.
- On/off switch.
- Automatic switch-off.
- Reset.
- Large LCD display.
- Thumb wheel/locking screw/flat depth rod.
- Delivery in a plastic case with a manufacturer measuring report.
- Power supply: 1 battery type CR2025.



906.412

PRICE

Item No.	Measuring range/mm	Jaw length mm	Price EUR
906.412	0 - 150	40	49.00
906.413	0 - 200	50	70.00
906.414	0 - 300	60	106.00
Options:			
495.214	Spare battery		0.40
909.446	USB interface		143.00
909.687	Foot switch		18.50

C02.362.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Absolute digital calipers IP54

Calipers with an absolute measuring system for easy incremental and absolute conversion. The advantage of these calipers is the one-time setting of the absolute zero position until the battery has to be changed. This reduces the chance of measuring errors and enables you to use the calipers without having to reset the zero position at every use. These calipers have a protection degree of IP54 and are therefore protected against splash water and resistant to oil and dust. The models with the tolerance limit function are provided with a clear optical Go (NoGo) indication.

- Measuring range: 0 - 300 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- ABS/INC switchable.
- With data output.
- On/off switch.
- Automatic switch-off.
- Reset.
- Max. measuring speed: unlimited.
- Locking screw/flat depth rod.
- Protection: IP54.
- Delivery in a plastic case with a manufacturer measuring report.
- Power supply: 1 battery type CR2032.

Models with tolerance display:

- Adjustable tolerance limits.
- Tolerance display by means of illuminated green LED at GO value.



906.835

USB interface:
- For data transfer to PC (e.g. Excel, Word).
- Operating system: Windows and other.
- PC connection: USB.
- No software or driver to install.
- Foot switch (optional).

Item No.	Measuring range/mm	Accuracy mm	Jaw length mm	Price EUR
906.838	0 - 150	0.02	40	47.00
906.839	0 - 200	0.03	50	66.00
906.840	0 - 300	0.03	60	86.00
Models with tolerance display:				
906.835	0 - 150	0.02	40	54.00
906.836	0 - 200	0.03	50	73.00
906.837	0 - 300	0.03	60	93.00
Options:				
495.157	Spare battery			0.40
906.618[1,2]	USB interface			77.00
909.687	Footswitch for USB interface			18.50
910.038	Wireless USB receiver			50.00
906.619[2]	Wireless transmitter			52.00

[1] Standard configured for PC with English (US) keyboard. Also available on request for alternative keyboards.
[2] With micro-USB connection.


906.618


909.687


906.619/910.038

C02.336.EN.20230516

Absolute digital calipers IP54

Calipers with an absolute measuring system for easy incremental and absolute conversion. This gives you the advantage that the caliper stores the one-time setting of the absolute zero position until the battery has to be changed. This reduces the chance of measuring errors and enables you to use the caliper without having to reset the zero point with each use. These calipers have a protection degree of IP54 and are therefore protected against splash water and resistant to oil and dust.

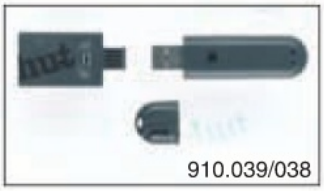
- Measuring range: 0 - 300 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- ABS/INC switchable.
- Digimatic data output.
- On/off switch.
- Reset.
- Max. measuring speed: unlimited.
- Thumb wheel supplied separately.
- Locking screw/flat depth rod.
- Protection: IP54.
- Delivery in a plastic case with a manufacturer measuring report.
- Power supply: 1 battery type CR2032.


909.602

USB interface:
- For data transfer to PC (e.g. Excel, Word).
- Operating system: Windows and other.
- PC connection: USB.
- No software or driver to install.
- Foot switch (optional).


909.686


909.687


910.039/038

Item No.	Measuring range/mm	Accuracy mm	Jaw length mm	Price EUR
909.602	0 - 150	0.02	40	56.00
909.603	0 - 200	0.03	50	75.00
909.604	0 - 300	0.03	60	94.00
Options:				
495.157	Spare battery			0.40
909.686[1,2]	USB interface			109.00
909.687	Footswitch for USB interface			18.50
910.038	Wireless USB receiver			50.00
910.039[2]	Wireless transmitter			50.00

[1] Standard configured for PC with English (US) keyboard. Also available on request for alternative keyboards.
[2] For instruments with a Digimatic data output.

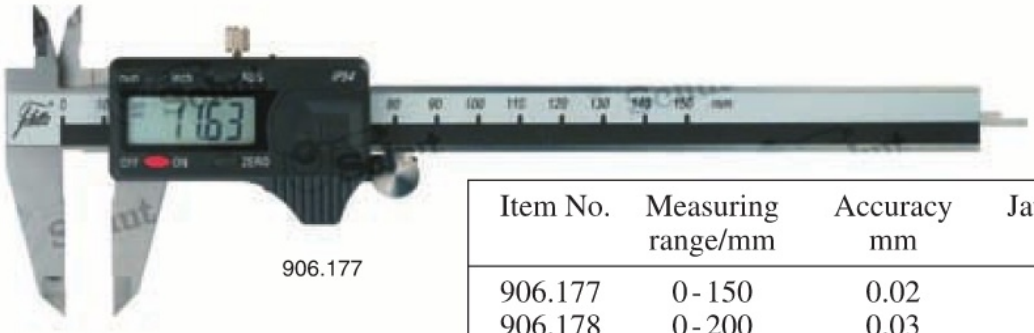
C02.330.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Absolute digital calipers IP54

Calipers with an absolute measuring system for easy incremental and absolute conversion. This gives you the advantage that the caliper stores the one-time setting of the absolute zero position until the battery has to be changed. This reduces the chance of measuring errors and enables you to use the caliper without having to reset the zero point with each use. These calipers have a protection degree of IP54 and are therefore protected against splash water and resistant to oil and dust.

- Measuring range: 0 - 300 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- ABS/INC switchable.
- On/off switch.
- Automatic switch-off.
- Reset.
- Thumb wheel/locking screw/flat depth rod.
- Protection: IP54.
- Delivery in a plastic case with a manufacturer measuring report.
- Power supply: 1 battery type CR2032.



906.177

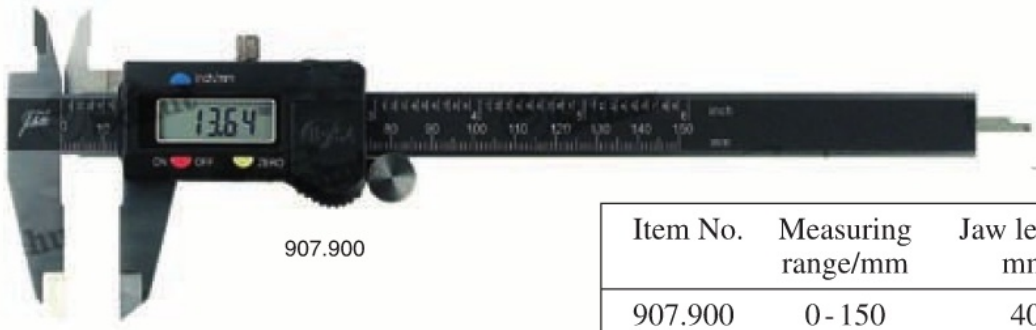
PRICE

Item No.	Measuring range/mm	Accuracy mm	Jaw length mm	Price EUR
906.177	0 - 150	0.02	40	45.00
906.178	0 - 200	0.03	50	63.00
906.179	0 - 300	0.03	60	90.00
Option:				
495.157	Spare battery			0.40

Digital calipers IP54

These calipers have a protection degree of IP54 and are therefore protected against splash water and resistant to oil and dust.

- Measuring range: 0 - 300 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Thumb wheel/locking screw/flat depth rod.
- Protection: IP54.
- Power supply: 1 battery type V357.



907.900

PRICE

Item No.	Measuring range/mm	Jaw length mm	Price EUR
907.900	0 - 150	40	41.00
907.901	0 - 200	50	56.00
907.902	0 - 300	60	75.00
Option:			
836.535	Spare battery		0.80

C02.333.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

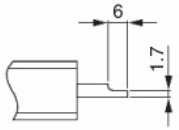
TESA TWIN-Cal absolute digital calipers

New generation IP40 calipers, TESA TWIN-Cal, with an excellent price-performance ratio. These calipers have a unique connectivity concept TESA LINK. All TWIN-Cal calipers are equipped with a data output. Connect the TESA Link Connector to the TWIN-Cal for "plug and play" (wireless) data transfer.

- Measuring range: 0 - 300 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- Digit height: 11 mm.
- Automatic switch-off.
- Reset.
- Max. measuring speed: approx. 2.5 m/s.
- Thumb wheel (except 783.334).
- Locking screw.
- Flat depth rod (except 783.331: round depth rod ø 1.5 mm).
- Protection: IP40.
- ISO 13385-1.
- Standard supplied with data output (USB, Digimatic or wireless).
- Delivery in a plastic case with a manufacturer measuring report.
- Power supply: 1 battery type CR2032.



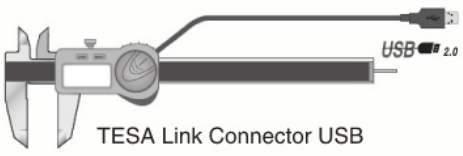
783.331



Dimensions
flat depth rod

Item No.	Measuring range/mm	Jaw length mm	Depth rod	Price EUR
783.334	0 - 150	40	flat	130.00
783.331	0 - 150	40	round	130.00
783.332	0 - 200	50	flat	189.00
783.333	0 - 300	64	flat	254.00
Options:				
495.157	Spare battery			0.40
779.362[1]	Depth measuring base 75 x 6 mm			36.00
783.300[1]	Thumb wheel			10.00
783.301[2]	TESA Link Connector USB			115.00
783.302[2]	TESA Link Connector Digimatic			249.00
783.555[2]	TESA Link Connector Bluetooth			50.00

[1] Only suitable for 783.334.
[2] The TESA Link Connector will replace the battery cover.



TESA Link Connector USB


TESA Link Connector Digimatic


TESA Link Connector Bluetooth

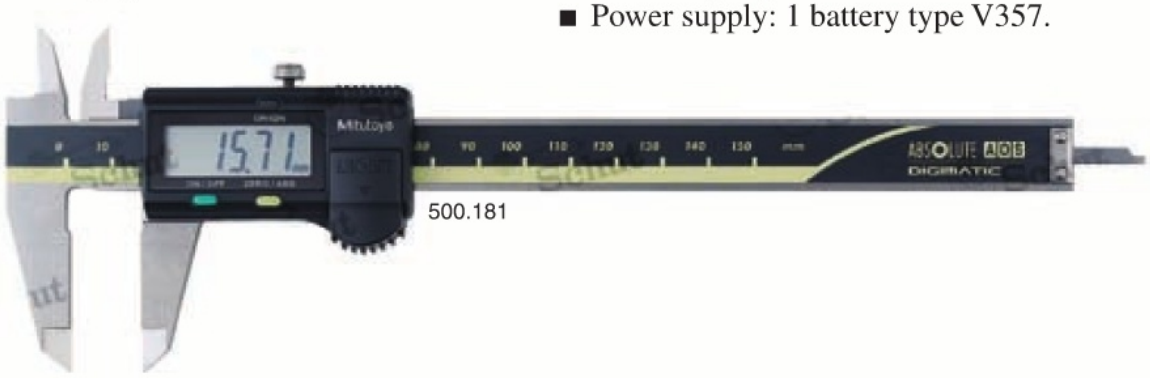
C02.212.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo Absolute Digimatic calipers

Mitutoyo digital calipers equipped with an AOS inductive encoder. The measuring signal is not affected by dirt (water, oil, etc.) on the ruler surface due to the electromagnetic inductive ABS encoder. The one-time setting of origin remains as the absolute zero position until the battery has to be changed.

- Measuring range: 0 - 300 mm.
- Resolution: 0.01 mm.
- ABS/INC switchable.
- With or without Digimatic data output.
- Reset.
- Max. measuring speed: unlimited.
- Flat depth rod (except 500.158, 500.180, 500.184 and 500.203: round depth rod ø 1.9 mm).
- Protection: IP40.
- Delivery in a plastic case with a manufacturer measuring report.
- Power supply: 1 battery type V357.



500.181

Item No.	Measuring range/mm	Accuracy mm	Jaw length mm	Price EUR
Without Digimatic data output:				
500.180[1]	0 - 100	0.02	40	240.00
500.181	0 - 150	0.02	40	130.00
500.184[1]	0 - 150	0.02	40	130.00
500.182	0 - 200	0.02	50	209.00
With Digimatic data output:				
500.161	0 - 150	0.02	40	166.00
500.203[1]	0 - 150	0.02	40	191.00
500.158[1,2]	0 - 150	0.02	40	194.00
500.151[2]	0 - 150	0.02	40	192.00
500.162	0 - 200	0.02	50	234.00
500.152[2]	0 - 200	0.02	50	271.00
500.205	0 - 300	0.03	64	328.00
500.153[2]	0 - 300	0.03	64	376.00



Round depth rod

[1] With round depth rod ø 1.9 mm.
[2] With thumb wheel.
[3] With data switch.
[4] Connector + transmitter are needed.

Options

Item No.	Description	Price EUR
836.535	Spare battery	0.80
959.149[3]	Digimatic signal cable 1 m	47.00
959.150[3]	Digimatic signal cable 2 m	55.00
106.382[3]	USB Input Tool Direct cable 2 m	121.00
102.300[3,4]	U-WAVE fit connector	102.00
264.620[4]	U-WAVE fit transmitter IP67	183.00
264.621[4]	U-WAVE fit transmitter	183.00
264.624[4]	U-WAVE Bluetooth transmitter IP 67	181.00
264.625[4]	U-WAVE Bluetooth transmitter	181.00

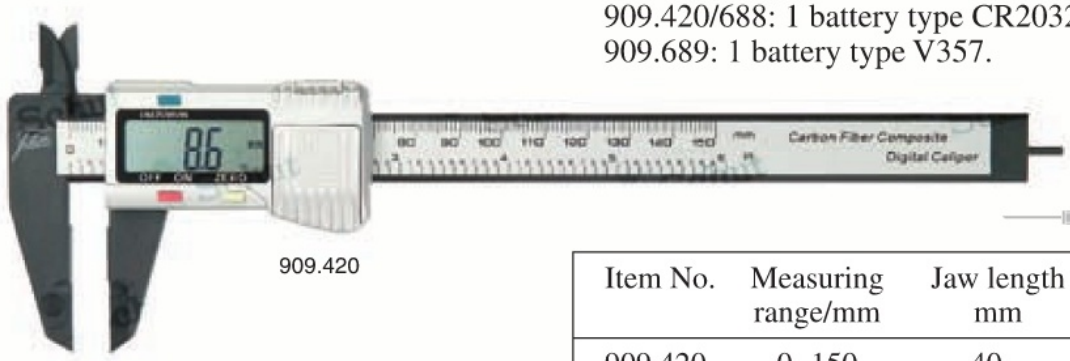
C02.370.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital carbon fiber calipers

Digital calipers made of carbon fiber.

- Measuring range: 0 - 300 mm.
- Resolution: 0.1 mm.
- mm/inch conversion.
- On/off switch.
- Automatic switch-off.
- Reset.
- Flat depth rod (only 909.420).
- Power supply:
  909.420/688: 1 battery type CR2032,
  909.689: 1 battery type V357.



909.420

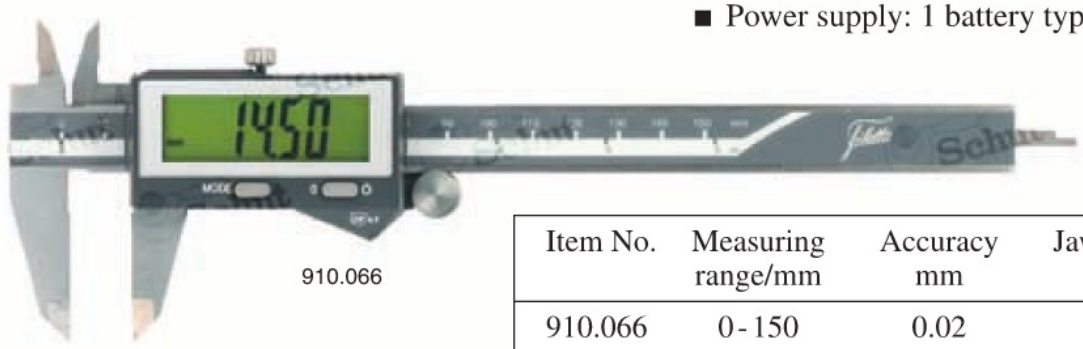
PRICE

Item No.	Measuring range/mm	Jaw length mm	Price EUR
909.420	0 - 150	40	9.10
909.688	0 - 150	75	12.80
909.689	0 - 300	90.5	29.40
Options:			
495.157	Spare battery type CR2032		0.40
836.535	Spare battery type V357		0.80

Digital calipers IP67

These IP67 protected calipers are especially suitable for use in production environments: they are fully protected against dust intrusion and even temporary immersion.

- Measuring range: 0 - 300 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- Automatic switch-off.
- Reset.
- Large LCD display.
- Thumb wheel/locking screw/flat depth rod.
- Protection: IP67.
- Delivery in a plastic case with a manufacturer measuring report.
- Power supply: 1 battery type CR2032.



910.066

PRICE

Item No.	Measuring range/mm	Accuracy mm	Jaw length mm	Price EUR
910.066	0 - 150	0.02	40	62.00
910.067	0 - 200	0.03	50	79.00
910.068	0 - 300	0.03	60	108.00
With Bluetooth:				
910.069	0 - 150	0.03	40	79.00
Option:				
495.157	Spare battery			0.40

C02.319.EN.20230516

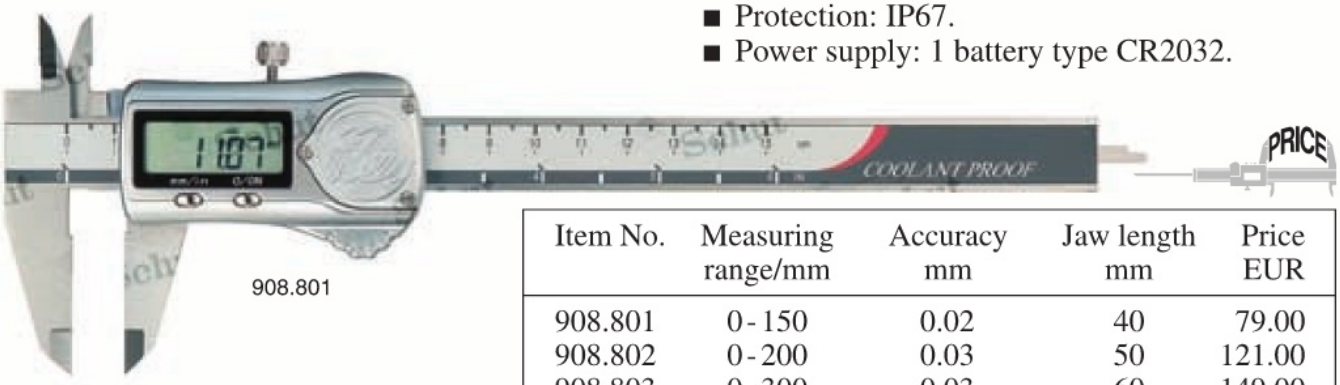
© 2023, Schut Geometrische Meettechniek bv

Absolute digital calipers IP67

These IP67 protected calipers are especially suitable for use in production environments: they are fully protected against dust intrusion and even temporary immersion.

Calipers with an absolute measuring system for easy incremental and absolute conversion. The advantage of these calipers is the one-time setting of the absolute zero position until the battery has to be changed. This reduces the chance of measuring errors and enables you to use the calipers without having to reset the zero position at every use.

- Measuring range: 0 - 300 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- ABS/INC switchable.
- On/off switch.
- Automatic switch-off.
- Reset.
- Locking screw/flat depth rod.
- Protection: IP67.
- Power supply: 1 battery type CR2032.



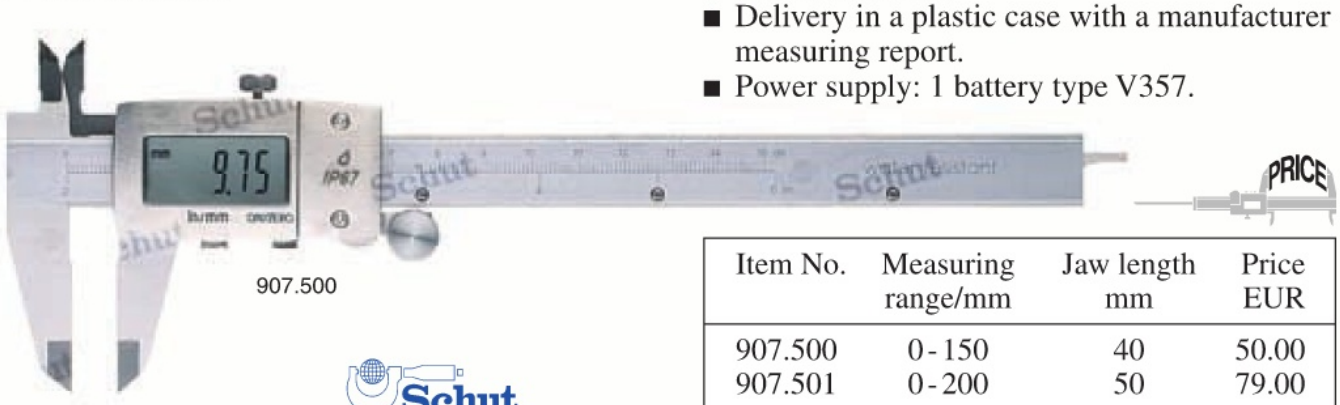
908.801

Item No.	Measuring range/mm	Accuracy mm	Jaw length mm	Price EUR
908.801	0 - 150	0.02	40	79.00
908.802	0 - 200	0.03	50	121.00
908.803	0 - 300	0.03	60	149.00
Option:				
495.157	Spare battery			0.40

Digital calipers IP67

These IP67 protected calipers are especially suitable for use in production environments: they are fully protected against dust intrusion and even temporary immersion.

- Measuring range: 0 - 200 mm.
- Resolution: 0.01 mm.
- Accuracy: ±0.03 mm.
- mm/inch conversion.
- On/off switch.
- Automatic switch-off.
- Reset.
- Thumb wheel/locking screw/flat depth rod.
- Protected rack.
- Protection: IP67.
- Delivery in a plastic case with a manufacturer measuring report.
- Power supply: 1 battery type V357.



907.500

Item No.	Measuring range/mm	Jaw length mm	Price EUR
907.500	0 - 150	40	50.00
907.501	0 - 200	50	79.00
Option:			
836.535	Spare battery		0.80

C02.304.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

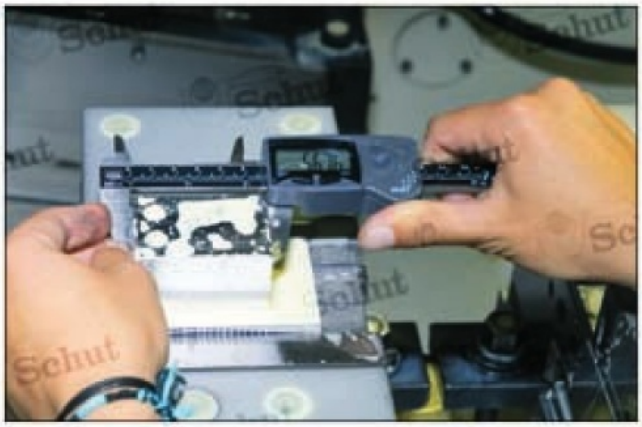
TESA-Cal absolute digital calipers IP67

As an alternative to the TESA TWIN-Cal caliper line, TESA offers these TESA-Cal calipers with an excellent price-performance ratio. These IP67 rated TESA-Cal calipers are especially suitable for use in the production environments: they are fully protected against dust and can even withstand temporary immersion.

- Measuring range: 0 - 300 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- Automatic switch-off.
- Reset.
- Thumb wheel (only 783.593 and 783.594).
- Locking screw.
- Flat depth rod (except 783.595: round depth rod ø 1.5 mm).
- Protection: IP67.
- ISO 13385-1.
- Delivery in a plastic case with a manufacturer measuring report.
- Power supply: 1 battery type CR2032.



783.592





Item No.	Measuring range/mm	Jaw length mm	Depth rod	Price EUR
783.592	0 - 150	40	flat	121.00
783.595	0 - 150	40	round	121.00
783.594	0 - 200	50	flat	174.00
783.593	0 - 300	64	flat	234.00
Option:				
495.157	Spare battery			0.40

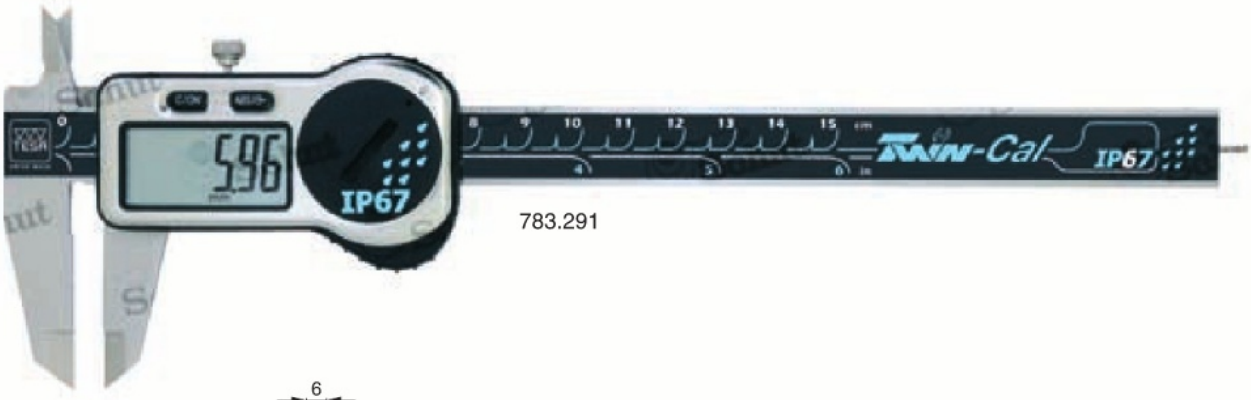
C02.353.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

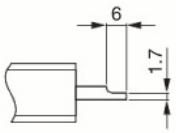
TESA TWIN-Cal absolute digital calipers IP67

New generation IP67 calipers, TESA TWIN-Cal, with an absolute measuring system and a "soft touch" grip. These calipers have a unique connectivity concept TESA LINK. All TWIN-Cal calipers are equipped with a data output. Connect the TESA Link Connector to the TWIN-Cal for "plug and play" (wireless) data transfer.

- Measuring range: 0 - 300 mm.
- Resolution: 0.01 mm.
- Repeatability: 0.01 mm.
- mm/inch conversion.
- Digit height: 11 mm.
- Automatic switch-off.
- Reset.
- Max. measuring speed: approx. 2.5 m/s.
- Thumb wheel (except 783.290/291); also optionally available.
- Locking screw.
- Round (ø 1.5 mm) or flat depth rod.
- Protection: IP67 (also in combination with data output cable).
- ISO 13385-1.
- Standard supplied with data output (USB, Digimatic or wireless).
- Delivery in a plastic case with a manufacturer measuring report.
- Power supply: 1 battery type CR2032.



783.291

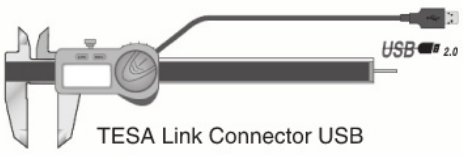


Dimensions flat depth rod

Item No.	Measuring range/mm	Jaw length mm	Depth rod	Price EUR
783.290	0 - 150	40	flat	186.00
783.291	0 - 150	40	round	186.00
783.292	0 - 150	40	round	186.00
783.293	0 - 200	50	flat	252.00
783.294	0 - 300	64	flat	325.00

Options:		
495.157	Spare battery	0.40
779.362[1]	Depth measuring base 75 x 6 mm	36.00
783.300[1]	Thumb wheel	10.00
783.301[2]	TESA Link Connector USB	115.00
783.302[2]	TESA Link Connector Digimatic	249.00
783.555[2]	TESA Link Connector Bluetooth	50.00

[1] Only suitable for the calipers with measuring range 0 - 150 mm.
[2] The TESA Link Connector will replace the battery cover.



TESA Link Connector USB



TESA Link Connector Digimatic



TESA Link Connector Bluetooth

C02.306.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo Absolute Digimatic *Coolant Proof* calipers IP67

Series digital calipers with the unique Absolute measuring system to prevent inaccuracy due to an incorrect zero position. These IP67 protected calipers are especially suitable for use in production environments; they even last temporary immersion. The one-time setting of origin remains as the absolute zero position until the battery has to be changed.

- Measuring range: 0 - 300 mm.
- Resolution: 0.01 mm.
- With or without Digimatic data output.
- Digit height: 9 mm.
- Automatic switch-off.
- Reset.
- Max. measuring speed: unlimited.
- Locking screw.
- Flat depth rod (except 500.709: round depth rod ø 1.9 mm).
- Protection: IP67.
- Battery life: approx. 18 000 hours.
- Delivery in a plastic case with a manufacturer measuring report.
- Power supply: 1 battery type V357.
- Also available with thumb wheel.



500.706

Item No.	Measuring range/mm	Accuracy mm	Jaw length mm	Price EUR
Without Digimatic data output:				
500.706	0 - 150	0.02	40	196.00
500.709[1]	0 - 150	0.02	40	197.00
500.707	0 - 200	0.02	50	271.00
500.708	0 - 300	0.03	64	390.00
With Digimatic data output:				
500.716	0 - 150	0.02	40	249.00
500.727[2]	0 - 150	0.02	40	493.00
500.717	0 - 200	0.02	50	316.00
500.728[2]	0 - 200	0.02	50	554.00
500.718	0 - 300	0.03	64	418.00



[1] With round depth rod ø 1.9 mm.
[2] Provided with tungsten carbide measuring faces.
[3] With data switch.
[4] Connector + transmitter are needed.

Options

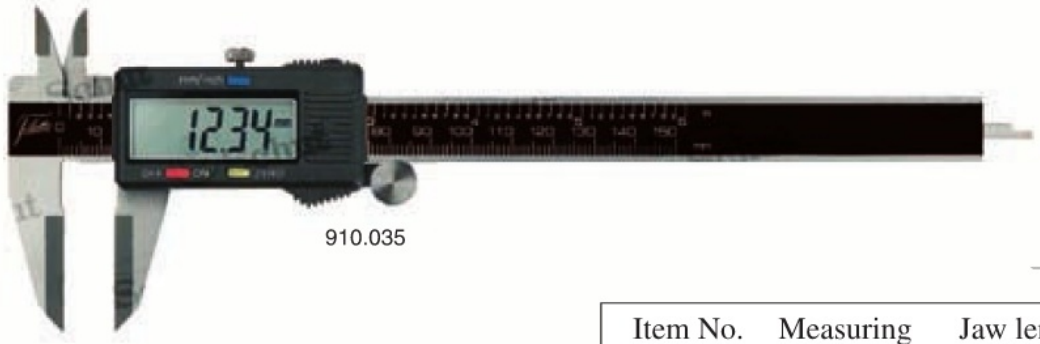
Item No.	Description	Price EUR
836.535	Spare battery	0.80
105.624[3]	Digimatic signal cable, 1 m	98.00
105.625[3]	Digimatic signal cable, 2 m	104.00
106.381[3]	USB Input Tool Direct cable 2 m	138.00
102.310[3,4]	U-WAVE fit connector IP67	107.00
264.620[4]	U-WAVE fit transmitter IP67	183.00
264.621[4]	U-WAVE fit transmitter	183.00
264.624[4]	U-WAVE Bluetooth transmitter IP 67	181.00
264.625[4]	U-WAVE Bluetooth transmitter	181.00

C02.305.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital calipers with tungsten carbide measuring faces

- Measuring range: 0 - 300 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Large LCD display.
- Thumb wheel/locking screw/flat depth rod.
- Tungsten carbide measuring faces.
- Power supply: 1 battery type V357.



910.035

PRICE

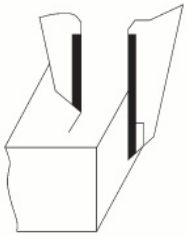
Item No.	Measuring range/mm	Jaw length mm	Price EUR
910.035	0 - 150	40	83.00
910.036	0 - 200	50	111.00
910.037	0 - 300	60	176.00
Option:			
836.535	Spare battery		0.80

Digital Caliper with long measuring jaw

Digital caliper with long measuring jaw for use as scribing tool.

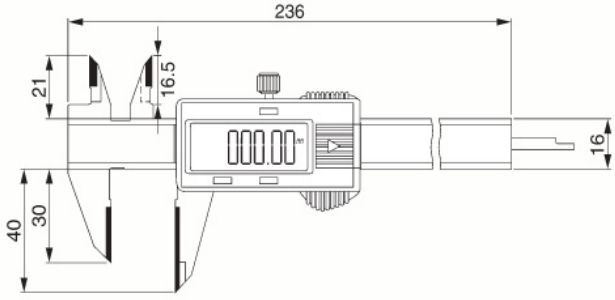
- Measuring range: 0 - 150 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Large LCD display.
- Locking screw/flat depth rod.
- Tungsten carbide measuring faces.
- Power supply: 1 battery type V357.





PRICE

Item No.	Measuring range/mm	Price EUR
910.284	0 - 150	87.00
Option:		
836.535	Spare battery	0.80

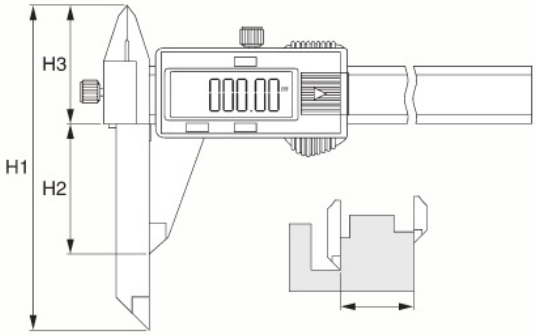


C02.334.EN.20230516

Digital calipers with slidable measuring jaw

For measuring distances between planes at different levels. Very suitable as scribing tool!

- Measuring range: 0 - 500 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Large LCD display.
- Thumb wheel/locking screw.
- Power supply: 1 battery type V357 (except 906.348).





906.345

* Model with absolute digital display, without thumb wheel, with fine adjustment and preset function.

Item No.	Measuring range/mm	Jaw length/mm H1	H2	H3	Price EUR
906.345	0 - 150	110	40	37	114.00
906.346	0 - 200	120	50	40	154.00
906.347	0 - 300	130	60	42	222.00
906.348*	0 - 500	210	100	66	283.00

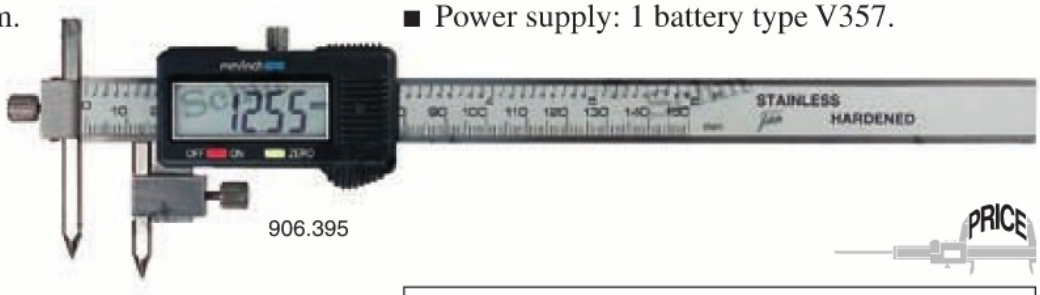
Options:

836.535	Spare battery type V357	0.80
495.157	Spare battery type CR2032	0.40

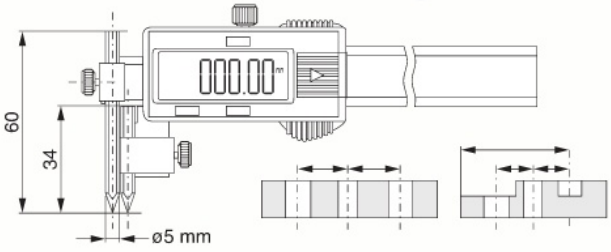
Digital calipers for measuring center distances

Suited for measuring center distances between bores from ø 1 up to 4.5 mm. Because both measuring jaws are adjustable in height it is possible to measure center distances between bores that are positioned at different levels.

- Measuring range: 5 - 300 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Large LCD display.
- Locking screw.
- Power supply: 1 battery type V357.



906.395



Item No.	Measuring range/mm	Price EUR
906.395	5 - 150	138.00
906.396	5 - 200	159.00
906.397	5 - 300	214.00

Option:

836.535	Spare battery	0.80

C02.204.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital caliper with pin-shaped anvil

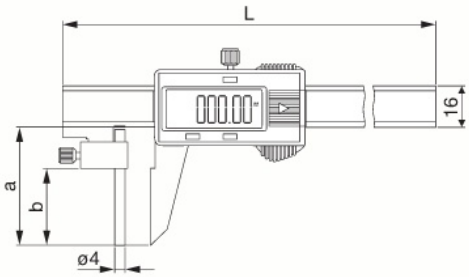
Digital caliper for measuring e.g. (tube) wall thickness.

- Measuring range: 0 - 150 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Large LCD display.
- Pin-shaped anvil: ø4 mm.
- Locking screw.
- Power supply: 1 battery type V357.



PRICE

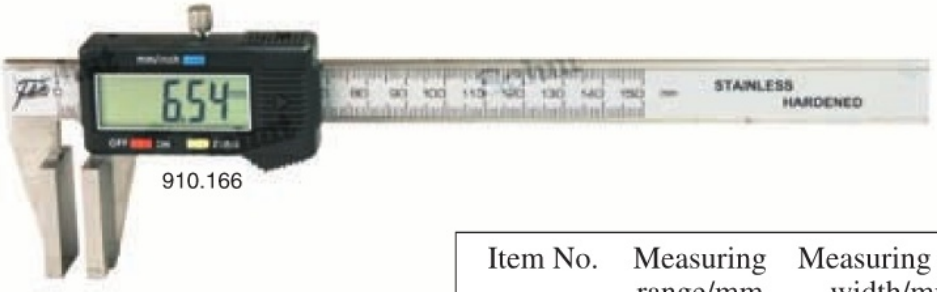
Item No.	Measuring range/mm	a mm	b mm	Price EUR
910.262	0 - 150	46	30	111.00
Option:				
836.535	Spare battery			0.80



Digtal calipers with large measuring faces

Calipers with large rectangular measuring faces for the measurements of for example round shafts and cables.

- Measuring range: 0 - 300 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Large LCD display.
- Locking screw.
- Power supply: 1 battery type V357.



910.166

PRICE

Item No.	Measuring range/mm	Measuring face width/mm	Measuring face height/mm	Price EUR
910.166	0 - 150	20	30	96.00
910.167	0 - 200	30	40	140.00
910.168	0 - 300	40	50	221.00
Option:				
836.535	Spare battery			0.80

Schut

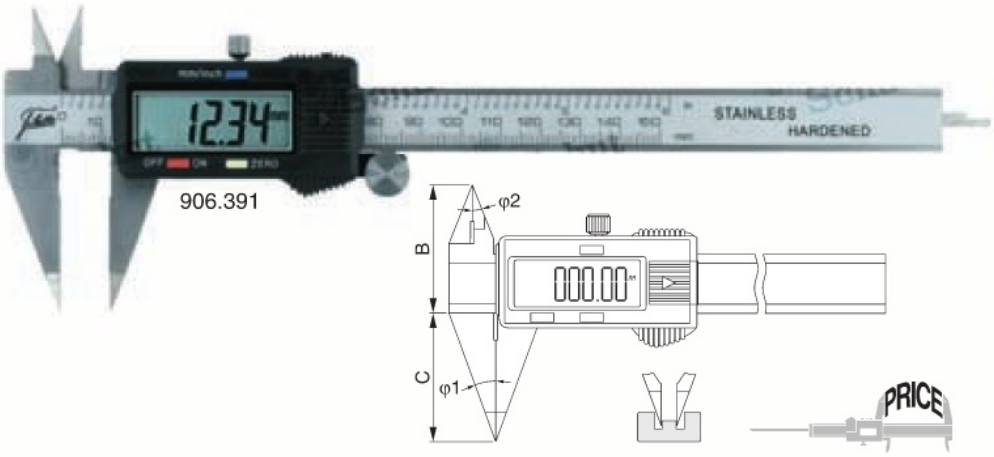
C02.344.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital calipers with pointed measuring jaws

The pointed measuring jaws of these calipers enable you to measure distances in places that are hard to reach.

- Measuring range: 0 - 300 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Large LCD display.
- Thumb wheel/locking screw/flat depth rod.
- Power supply: 1 battery type V357.



Item No.	Measuring range/mm	Jaw length C/mm	Length B/mm	Angle φ1	Angle φ2	Price EUR
906.391	0 - 150	40	37	20°	20°	67.00
906.392	0 - 200	50	40	20°	22.5°	97.00
906.393	0 - 300	60	42	20°	22.5°	149.00
Option:						
836.535	Spare battery					0.80

Digital calipers with thin measuring jaws

Digital calipers with extra thin measuring jaws for measuring inside small grooves.

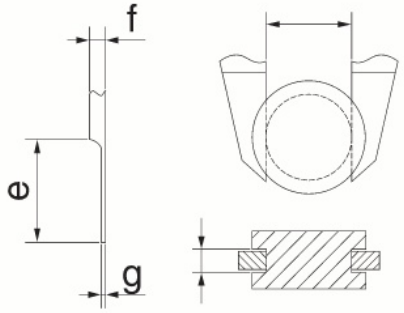
- Measuring range: 0 - 300 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Large LCD display.
- Locking screw/flat depth rod.
- Delivery in a case.
- Power supply: 1 battery type V357.



NEW

PRICE





Item No.	Measuring range/mm	Accuracy mm	e mm	f mm	g mm	Price EUR
910.274	0 - 150	±0.06	20	3.6	0.75	98.00
910.275	0 - 200	±0.10	20	3.6	0.75	126.00
910.276	0 - 300	±0.10	20	3.8	1	169.00
Option:						
836.535	Spare battery					0.80

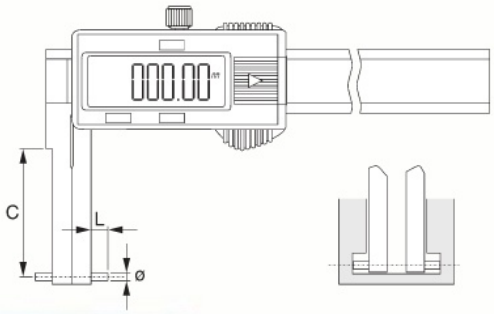
C02.363.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital calipers with outside angled measuring pins

These calipers are equipped with outward angled rounded pins.

- Measuring range: 35 - 500 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Large LCD display.
- Thumb wheel/locking screw.
- Power supply: 1 battery type V357 (except 906.383).





906.374



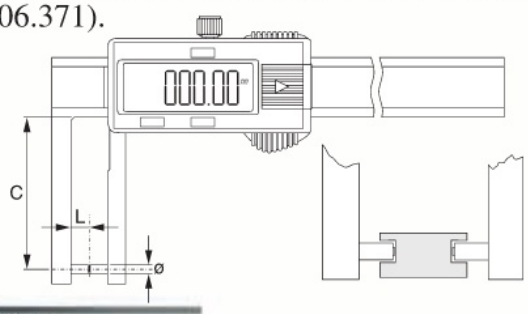
* Model with absolute digital display, without thumb wheel, with fine adjustment and preset function.

Item No.	Measuring range/mm	Jaw length C/mm	Pin ø/mm	Pin length L/mm	Price EUR
906.374	35 - 150	60	2	6	142.00
906.377	40 - 200	70	3	7	185.00
906.380	50 - 300	80	3	10	219.00
906.383*	60 - 500	105	3	10	354.00
Options:					
836.535	Spare battery type V357				0.80
495.157	Spare battery type CR2032				0.40

Digital calipers with inside angled measuring pins

These calipers are equipped with inward angled rounded pins.

- Measuring range: 0 - 500 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Large LCD display.
- Thumb wheel/locking screw.
- Power supply: 1 battery type V357 (except 906.371).





906.368



* Model with absolute digital display, without thumb wheel, with fine adjustment and preset function.

Item No.	Measuring range/mm	Jaw length C/mm	Pin ø/mm	Pin length L/mm	Price EUR
906.368	0 - 150	40	2	5	91.00
906.369	0 - 200	50	2.5	8	106.00
906.370	0 - 300	60	2.5	10	162.00
906.371*	0 - 500	100	3	12	224.00
Options:					
836.535	Spare battery type V357				0.80
495.157	Spare battery type CR2032				0.40

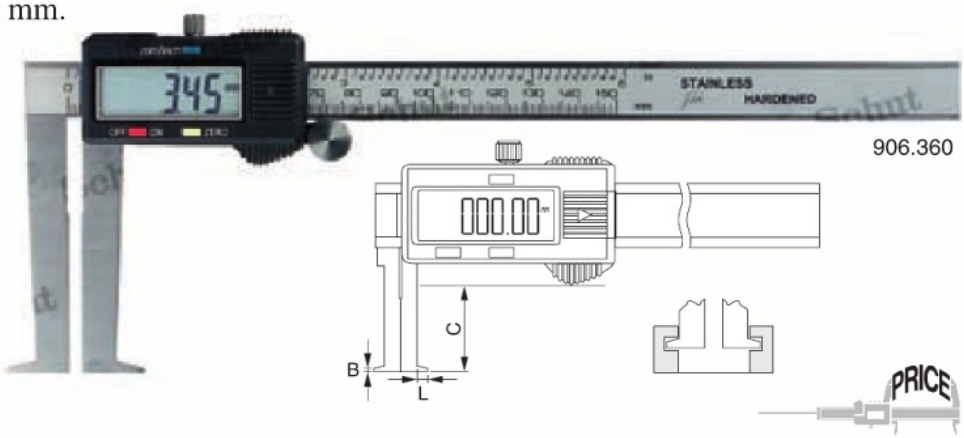
C02.205.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital calipers with outside angled measuring jaws

These calipers are equipped with outward angled V-shaped measuring jaws.

- Measuring range: 35 - 500 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Large LCD display.
- Thumb wheel/ locking screw.
- Power supply: 1 battery type V357 (except 906.363).



906.360



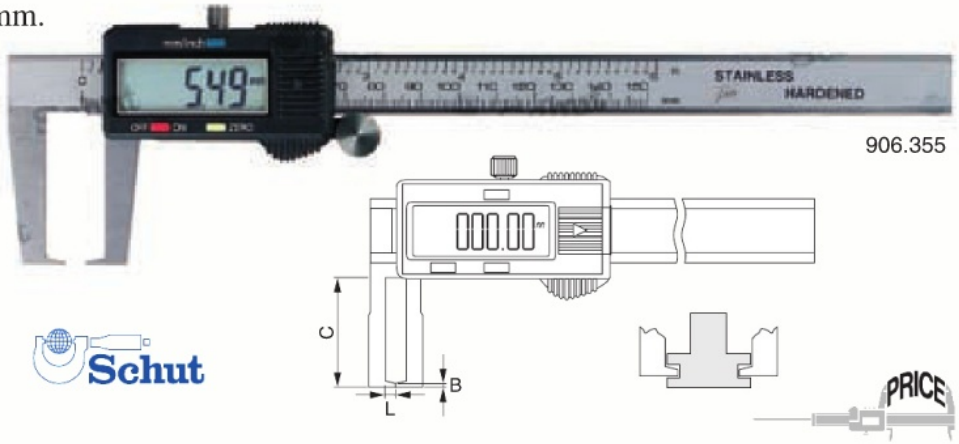
*Model with absolute digital display, without thumb wheel, with fine adjustment and preset function.

Item No.	Measuring range/mm	Jaw length C/mm	Measuring face B/mm	Jaw length L/mm	Price EUR
906.360	35 - 150	50	1.5	6	114.00
906.361	40 - 200	60	1.5	7	132.00
906.362	50 - 300	70	1.5	8	196.00
906.363*	60 - 500	110	2	10	310.00
Options:					
836.535	Spare battery type V357				0.80
495.157	Spare battery type CR2032				0.40

Digital calipers with inside angled measuring jaws

These calipers are equipped with inward angled V-shaped measuring jaws.

- Measuring range: 0 - 500 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Large LCD display.
- Thumb wheel/ locking screw.
- Power supply: 1 battery type V357 (except 906.358).



906.355



*Model with absolute digital display, without thumb wheel, with fine adjustment and preset function.

Item No.	Measuring range/mm	Jaw length C/mm	Measuring face B/mm	Jaw length L/mm	Price EUR
906.355	0 - 150	40	1	5	90.00
906.356	0 - 200	50	1	7	110.00
906.357	0 - 300	60	1.5	8	157.00
906.358*	0 - 500	100	2	12	245.00
Options:					
836.535	Spare battery type V357				0.80
495.157	Spare battery type CR2032				0.40

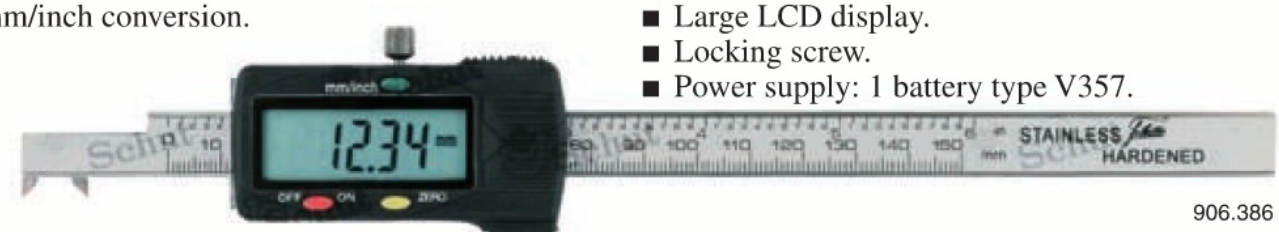
C02.206.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

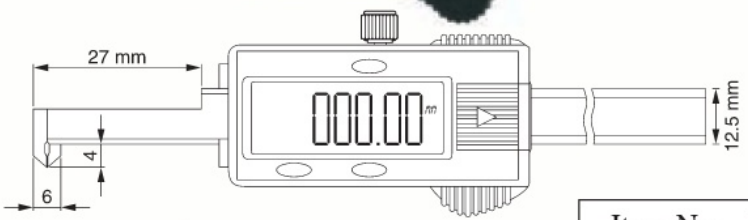
Digital calipers for internal length measurement

Calipers with outward angled, pointed measuring jaws for the measurement of for example internal grooves.

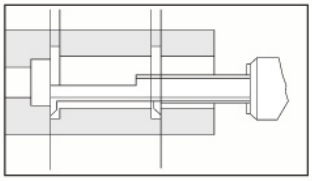
- Measuring range: 3 - 200 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Large LCD display.
- Locking screw.
- Power supply: 1 battery type V357.



906.386





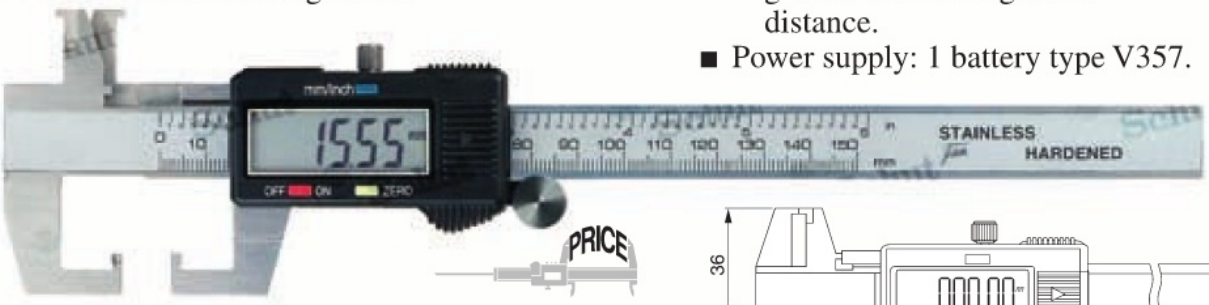


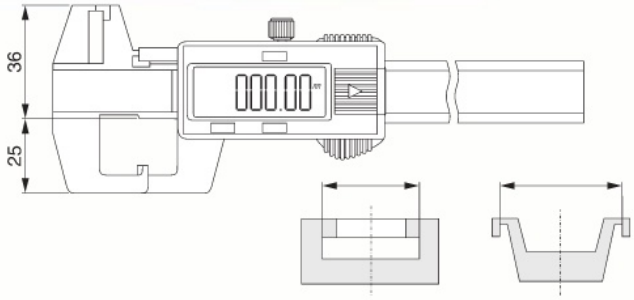
Schut

Item No.	Measuring range/mm	Price EUR
906.386	3 - 125	113.00
906.387	3 - 200	135.00
Option:		
836.535	Spare battery	0.80

Digital caliper for groove measurements

- Measuring range: 0 - 125 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Large LCD display.
- Equipped with small measuring jaws on top of the caliper.
- Thumb wheel/locking screw.
- Also suitable for:
  - internal diameter attached collar,
  - internal diameter U-shaped flange on axis,
  - center distances blind holes under-surface flange on axis,
  - hole diameter hard-to-reach places,
  - height measurement,
  - groove width and groove distance.
- Power supply: 1 battery type V357.





Item No.	Measuring range/mm	Price EUR
906.365	0 - 125	147.00
Option:		
836.535	Spare battery	0.80

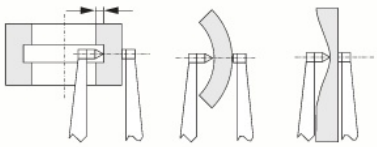
C02.207.EN.20230516

Digital calipers with pointed anvil

With the pointed anvil and the long measuring jaws you can measure all sorts of wall thicknesses in places that are hard to reach and of for example round surfaces.

- Measuring range: 0 - 150 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Large LCD display.
- Power supply: 1 battery type V357.



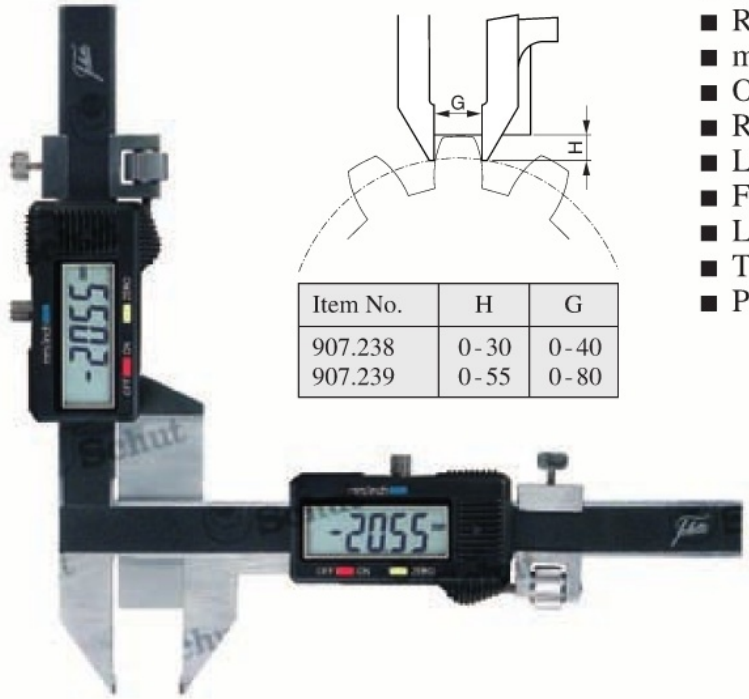


PRICE

Item No.	Measuring range/mm	Price EUR
906.350	0 - 75	117.00
906.351	0 - 125	130.00
906.352	0 - 150	144.00
Option:		
836.535	Spare battery	0.80

Digital gear tooth thickness calipers

The vertical slider sets the height (H) from the top of the tooth to the pitch line. Subsequently, the horizontal slider measures the tooth thickness (G) at the pitch line.



Item No.	H	G
907.238	0 - 30	0 - 40
907.239	0 - 55	0 - 80

- Measuring range: module 1 - 50.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Large LCD display.
- Fine adjustment.
- Locking screw.
- Tungsten carbide measuring faces.
- Power supply: 2 batteries type V357.

PRICE

Item No.	Module	Price EUR
907.238	1 - 30	184.00
907.239	5 - 50	231.00
Option:		
836.535	Spare battery (2 needed)	0.80

C02.365.EN.20230516

Digital calipers with long measuring knives

Digital calipers with long measuring knives for internal measurements.

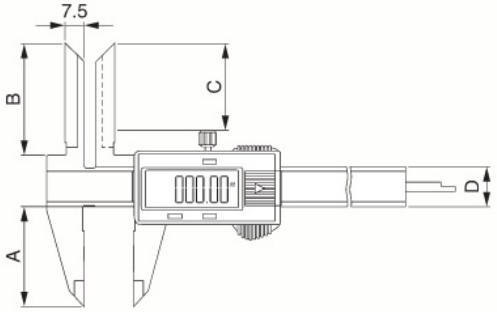
- Measuring range: 0 - 200 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Large LCD display.
- Locking screw/flat depth rod.
- Power supply: 1 battery type V357.



910.280

Schut

PRICE



Item No.	Measuring range/mm	A mm	B mm	C mm	D mm	Price EUR
910.280	0 - 150	40	45	35	16	123.00
910.281	0 - 200	50	50	40	16	132.00
Option:						
836.535	Spare battery					0.80

Digital calipers for internal measurements

Calipers with long measuring jaws for internal measurements.

- Measuring range: 15 - 300 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Large LCD display.
- Locking screw.
- Power supply: 1 battery type V357 (except 906.825/827/829).



906.824

PRICE



* Model with absolute digital display, fine adjustment and preset function.

Schut

Item No.	Measuring range/mm	Effective jaw length mm	Price EUR
906.824	15 - 150	50	94.00
906.825*	25 - 150	130	161.00
906.826	18 - 200	65	97.00
906.827*	25 - 200	130	165.00
906.828	20 - 300	80	161.00
906.829*	25 - 300	130	189.00
Options:			
836.535	Spare battery type V357		0.80
495.157	Spare battery type CR2032		0.40

C02.366.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital radius caliper

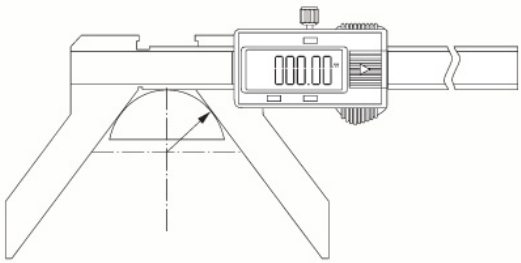
Digital caliper for direct measurement of a radius for an arc that has an opening angle smaller than 180° (min. 107°).

- Measuring range: 3 - 150 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Large LCD display.
- Locking screw.
- Power supply: 1 battery type V357.



PRICE

Item No.	Measuring range/mm	Price EUR
910.272	3 - 150	180.00
Option:		
836.535	Spare battery	0.80



Digital calipers with rotatable LCD display

- Measuring range: 0 - 300 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Automatic switch-off.
- Reset.
- Rotatable display.
- Rotatable display value.
- Thumb wheel/locking screw/flat depth rod.
- Delivery in a plastic case with a manufacturer measuring report.
- Power supply: 1 battery type CR2032.



910.072

PRICE





Item No.	Measuring range/mm	Jaw length mm	Price EUR
910.072	0 - 150	40	39.40
910.073	0 - 200	50	60.00
910.074	0 - 300	60	89.00
Option:			
495.157	Spare battery		0.40

C02.367.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Calipers with prismatic anvil

Calipers with prismatic anvil for measuring objects with an uneven number of grooves like cutters, reamers and drills. The angle of the prism aperture is designed for workpieces having a number of 3 or 5 flutes.

- Measuring range: 1 - 40 mm.
- Locking screw.
- Accuracy: ±0.05 mm.

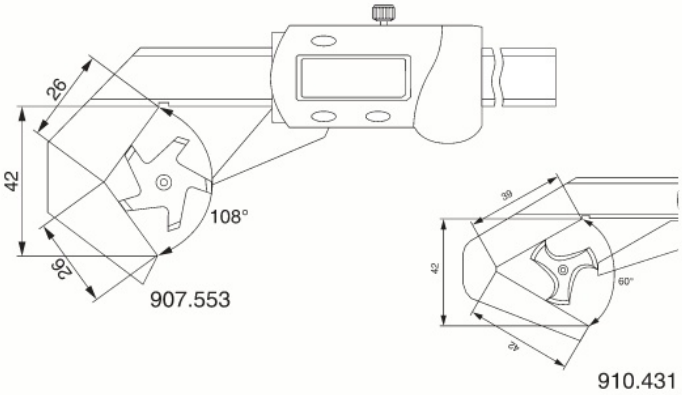
Analog
- Graduation: 0.02 mm.

Digital
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Preset.
- Reset.
- Including setting gauge ø 1 mm.
- Power supply: 1 battery type V357.



PRICE

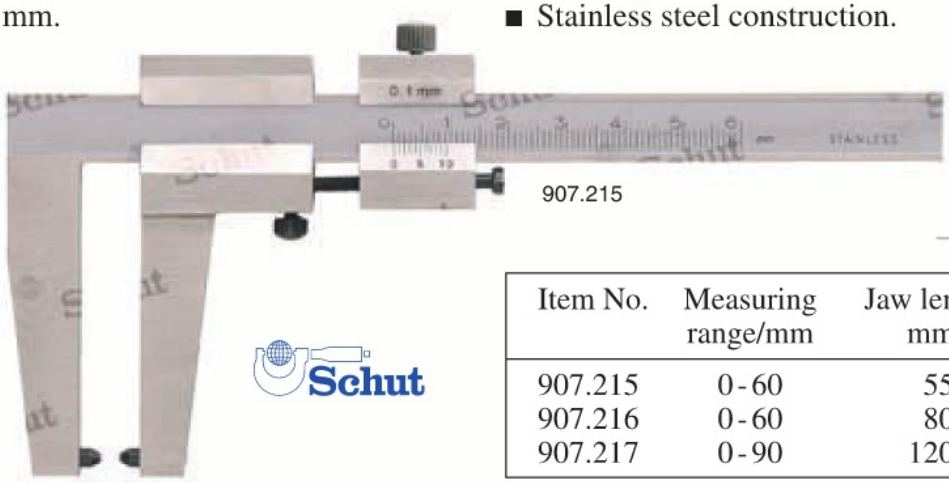
Item No.	For work-pieces with	Measuring range/mm	Price EUR
Analog			
910.431	3 flutes	4 - 40	97.00
Digital			
907.553	5 flutes	1 - 40	125.00
Option:			
836.535	Spare battery		0.80



Brake disc calipers

Brake disc calipers especially designed for measuring the groove depth of brake discs.

- Measuring range: 0 - 90 mm.
- Vernier: 0.1 mm.
- Locking screw.
- Stainless steel construction.



PRICE

Item No.	Measuring range/mm	Jaw length mm	Price EUR
907.215	0 - 60	55	31.30
907.216	0 - 60	80	50.00
907.217	0 - 90	120	89.00

C02.368.EN.20230516

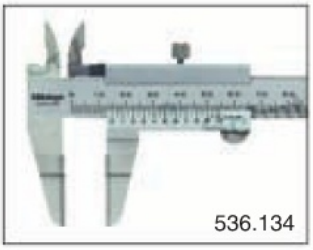
© 2023, Schut Geometrische Meettechniek bv

Mitutoyo special-purpose calipers

Mitutoyo special-purpose analog (vernier) and digital (Absolute Digimatic *Coolant Proof* IP67) calipers. For more information please contact our sales department.

Item No.	Measuring range/mm	Read-out* mm	Price EUR
With thinner tungsten carbide measuring jaws (thickness 0.75 mm):			
536.134	0 - 150	0.05 (V)	429.00
536.135	0 - 200	0.05 (V)	464.00
573.635	0 - 150	0.01 (D)	727.00
With pointed measuring jaws:			
536.121	0 - 150	0.05 (V)	225.00
573.622	0 - 150	0.01 (D)	502.00
With thin pointed measuring jaws:			
573.626	0 - 150	0.01 (D)	565.00
For scribing, with tungsten carbide measuring jaws:			
536.221	0 - 150	0.05 (V)	169.00
536.222	0 - 200	0.05 (V)	204.00
536.223	0 - 300	0.05 (V)	427.00
573.676	0 - 150	0.01 (D)	374.00
573.677	0 - 200	0.01 (D)	491.00
573.679	0 - 300	0.01 (D)	1,287.00
With slidable measuring jaw:			
536.101	0 - 150	0.05 (V)	313.00
536.102	0 - 200	0.05 (V)	380.00
536.103	0 - 300	0.05 (V)	508.00
573.611	0 - 150	0.01 (D)	642.00
573.612	0 - 200	0.01 (D)	715.00
573.614	0 - 300	0.01 (D)	853.00
For center distances:			
536.105	10 - 150	0.05 (V)	421.00
536.106	10 - 200	0.05 (V)	492.00
536.107	10 - 300	0.05 (V)	594.00
573.615	10 - 160	0.01 (D)	610.00
573.616	10 - 210	0.01 (D)	677.00
573.618	10 - 310	0.01 (D)	914.00

* V = vernier read-out, D = digital read-out.


536.134

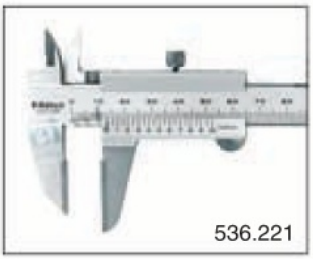

573.635


536.121


573.622


573.626

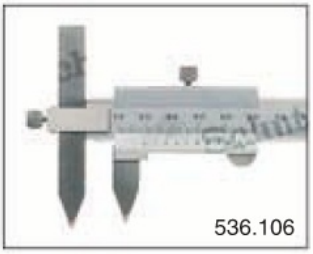
Schut


536.221


573.676


536.101


573.611

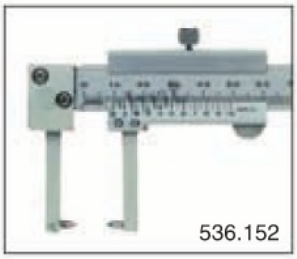

536.106


573.615

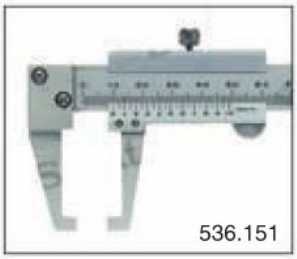
C02.321.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

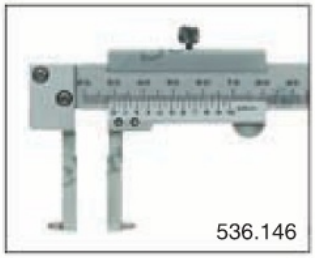
Mitutoyo special-purpose calipers (continued)


536.152

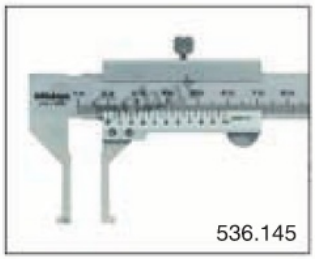

573.654


536.151

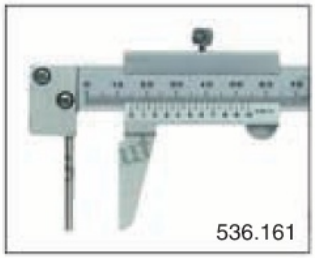

573.653


536.146

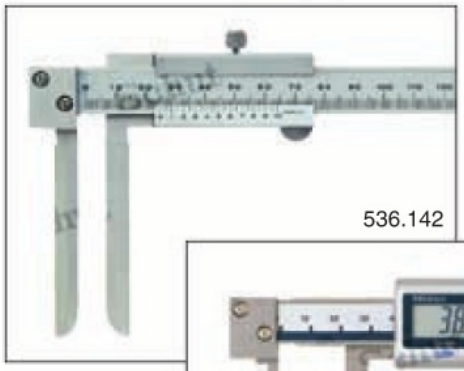

573.648


536.145

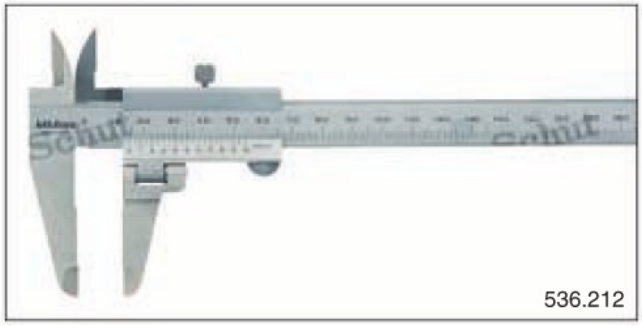

573.647


536.161


573.662


536.142


573.643


536.212

Item No.	Measuring range/mm	Read-out* mm	Price EUR
With inside angled measuring pins:			
536.152	0 - 150	0.05 (V)	540.00
573.654	0 - 150	0.01 (D)	751.00
With inside angled measuring jaws:			
536.151	0 - 150	0.05 (V)	420.00
573.653	0 - 150	0.01 (D)	642.00
With outside angled measuring pins:			
536.146	20 - 150	0.05 (V)	495.00
536.147	30 - 300	0.05 (V)	544.00
536.148	70 - 450	0.05 (V)	1,019.00
536.149	70 - 600	0.05 (V)	1,047.00
573.648	20 - 170	0.01 (D)	766.00
With outside angled measuring jaws:			
536.145	10 - 150	0.05 (V)	512.00
573.647	10 - 160	0.01 (D)	727.00
For tube wall thickness measurements:			
536.161	0 - 150	0.05 (V)	378.00
573.662	0 - 150	0.01 (D)	642.00
For internal measurements:			
536.142	10 - 200	0.05 (V)	685.00
573.643	10 - 200	0.01 (D)	828.00
With swivelling measuring jaw:			
536.212	0 - 200	0.05 (V)	671.00

* V = vernier read-out, D = digital read-out.

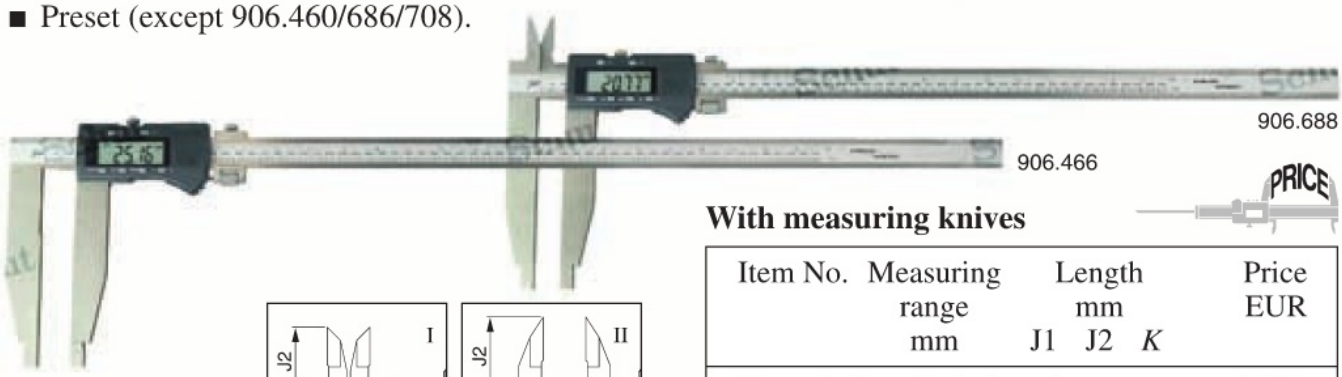
C02.322.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Absolute digital workshop calipers

Large and solid, stainless steel digital calipers with no-glare chrome finished beam.

- Measuring range: 0 - 2000 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- ABS/INC switchable (except 906.460/686/708).
- On/off switch.
- Reset.
- Preset (except 906.460/686/708).
- Memory for measuring values when the display is switched off.
- Rounded jaw ends for internal measurements.
- Fine adjustment and locking screw.
- Delivery in a plastic case or a wooden case.
- Power supply: 1 battery type CR2032 (except 906.460/686/708).

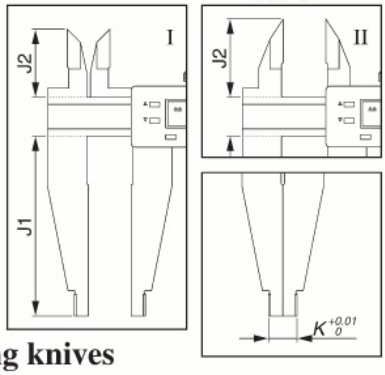


906.688

906.466



906.460/686/708



Without measuring knives

Item No.	Measuring range mm	Length mm J1	K	Price EUR
906.708	0 - 300	75	10	131.00
906.709	0 - 300	150	20	191.00
906.465	0 - 500	150	20	278.00
906.470	0 - 500	200	20	346.00
906.718	0 - 500	250	20	398.00
906.466	0 - 600	150	20	389.00
906.471	0 - 600	200	20	537.00
906.719	0 - 600	300	20	587.00
906.467	0 - 1000	200	20	842.00
906.472	0 - 1000	300	20	1,209.00
906.468*	0 - 1500	200	20	1,327.00
906.473*	0 - 1500	300	20	1,842.00
906.469*	0 - 2000	200	20	2,120.00
906.474*	0 - 2000	300	20	2,760.00

Item No.	Description	Price EUR
495.157	Spare battery type CR2032	0.40
836.535	Spare battery type V357	0.80

With measuring knives

Item No.	Measuring range mm	Length mm J1	J2	K	Price EUR
Meas. knives for internal measurements (I):					
906.686	0 - 300	75	28	10	146.00
906.687	0 - 300	150	38	20	228.00
906.688	0 - 500	150	38	20	300.00
906.689	0 - 500	200	60	20	379.00
906.690	0 - 500	250	60	20	464.00
906.691	0 - 600	150	45	20	394.00
906.692	0 - 600	200	60	20	506.00
906.693	0 - 600	300	60	20	707.00
906.694	0 - 1000	200	60	20	886.00
906.695	0 - 1000	300	60	20	1,287.00
906.696*	0 - 1500	200	60	20	1,442.00
906.697*	0 - 1500	300	60	20	1,922.00
906.698*	0 - 2000	200	60	20	2,130.00
906.699*	0 - 2000	300	60	20	2,850.00
Meas. knives for external measurements (II):					
906.460	0 - 300	75	38	10	161.00
906.758	0 - 300	150	56	20	225.00
906.461	0 - 500	150	56	20	317.00
906.759	0 - 500	200	67	20	368.00
906.760	0 - 500	250	80	20	456.00
906.761	0 - 600	150	56	20	388.00
906.762	0 - 600	200	67	20	499.00
906.763	0 - 600	300	80	20	629.00
906.462	0 - 1000	200	67	20	985.00
906.764	0 - 1000	300	80	20	1,289.00
906.463*	0 - 1500	200	80	20	1,547.00
906.765*	0 - 1500	300	80	20	1,889.00
906.464*	0 - 2000	200	80	20	2,290.00
906.766*	0 - 2000	300	80	20	2,810.00

* Without graduation on the caliper beam.

C02.209.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital lightweight workshop caliper

Lightweight digital aluminum workshop caliper with both measuring jaws being moveable. Hardened stainless steel measuring jaws, with rounded jaw ends for internal and external measurements. Excellent sliding properties due to double prismatic joint.

- Measuring range: 0 - 300 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Jaw length standard delivered jaw: 90 mm.
- Length meas. knives for external measurements: 40 mm.
- Locking screws.
- Delivery in a plastic case with a manufacturer measuring report.
- Power supply: 1 battery type V357.



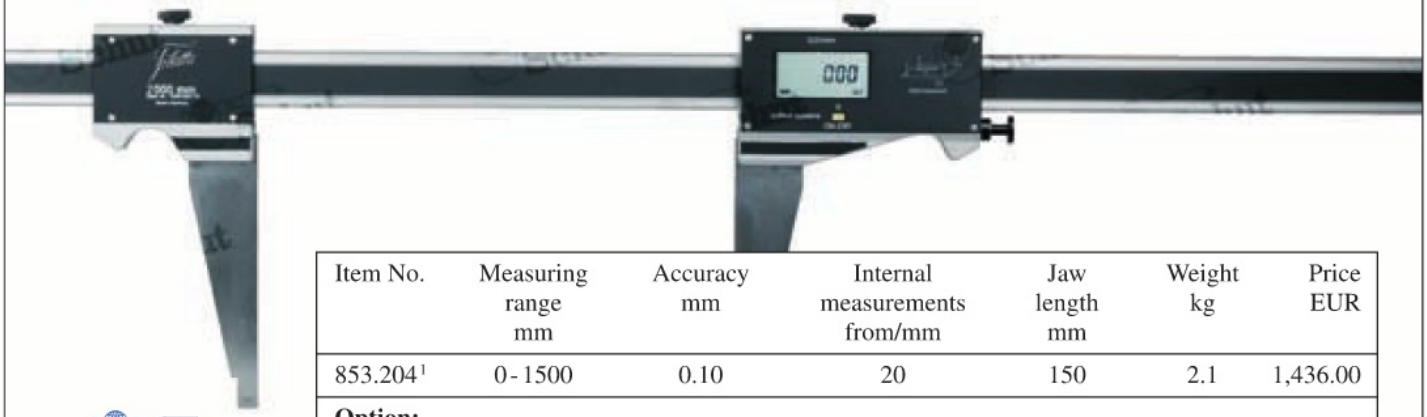
Item No.	Measuring range/mm	Accuracy mm	Weight kg	Price EUR
853.200	0 - 300	0.04	0.5	208.00
Options:				
853.219[1]	Pair measuring jaws 90 mm			50.00
853.220	Pair measuring jaws 125 mm			63.00
853.221	Pair measuring jaws 150 mm			71.00
836.535	Spare battery			0.80

[1] Standard included.

Digital lightweight workshop caliper

Lightweight digital aluminum workshop caliper with both measuring jaws being moveable. Hardened stainless steel measuring jaws, with rounded jaw ends for internal and external measurements. Excellent sliding properties due to double prismatic joint.

- Measuring range: 0 - 1500 mm.
- Resolution: 0.01 mm.
- On/off switch.
- Reset.
- Fine adjustment by means of carriage for constant measuring force of 3 N.
- Locking screws.
- Delivery in a plastic case with a manufacturer measuring report.
- Power supply: 1 battery type CR2032.



Item No.	Measuring range mm	Accuracy mm	Internal measurements from/mm	Jaw length mm	Weight kg	Price EUR
853.204[1]	0 - 1500	0.10	20	150	2.1	1,436.00
Option:						
495.157	Spare battery					0.40

[1] Delivery ex Groningen, Netherlands.

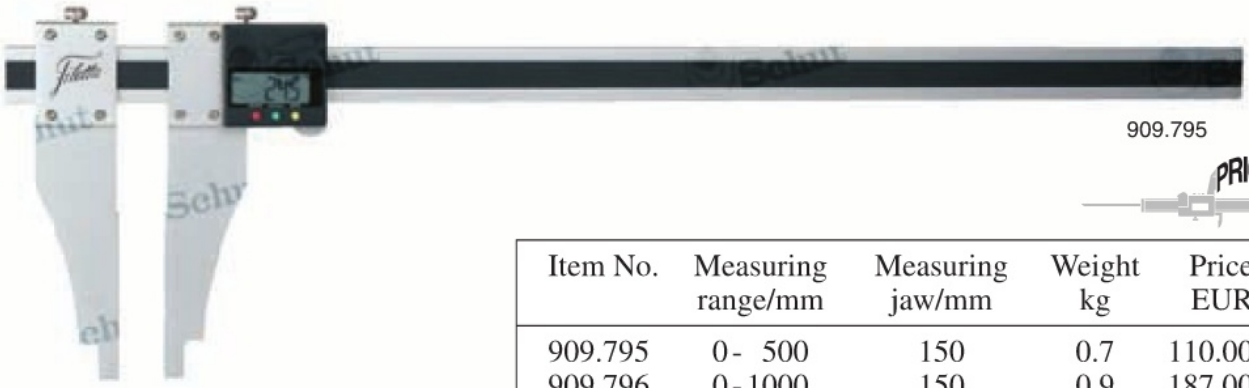
C02.337.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital aluminum workshop calipers

Lightweight digital aluminum workshop calipers with both measuring jaws being moveable.

- Measuring range: 0 - 1500 mm.
- Resolution: 0.1 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Aluminum scale with hollow construction (8 x 30 mm).
- Both of the measuring jaws can be moved.
- Power supply: 1 battery type V357.



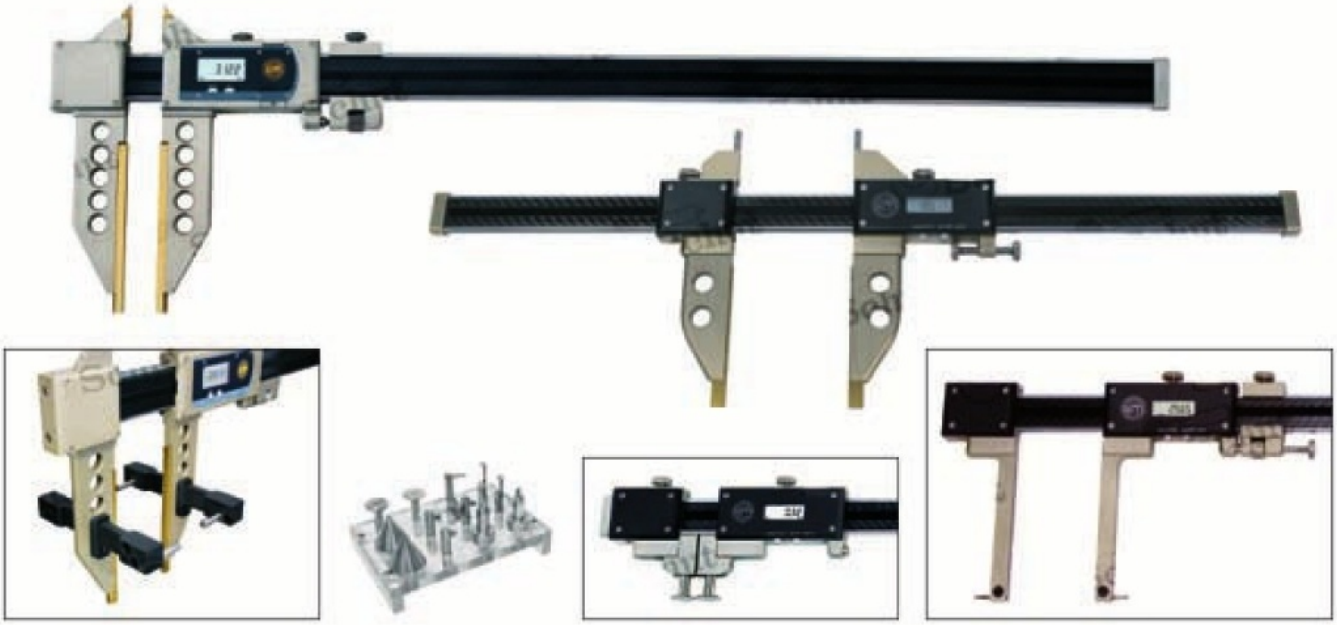
909.795

PRICE

Item No.	Measuring range/mm	Measuring jaw/mm	Weight kg	Price EUR
909.795	0 - 500	150	0.7	110.00
909.796	0 - 1000	150	0.9	187.00
909.797	0 - 1500	150	1.1	326.00
Option:				
836.535	Spare battery			0.80

Digital lightweight carbon workshop calipers

Different models are available in many lengths. Calipers can be supplied with for instance extra long measuring jaws, TiN coated or hardened measuring jaws or both measuring jaws being moveable. There are also models where special inserts or slide on probes can be used for measuring for instance center distances, grooves or diameters.



C02.329.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

TESA TWIN-Cal absolute digital workshop calipers IP67

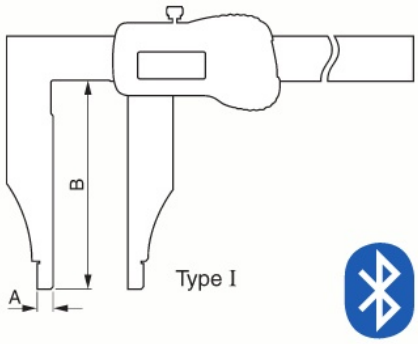
New generation IP67 workshop calipers with measuring ranges up to 1000 mm, TESA TWIN-Cal, with an absolute measuring system and a "soft touch" grip. These workshop calipers have a unique connectivity concept TESA LINK. All TWIN-Cal workshop calipers are equipped with a data output. Connect the TESA Link Connector to the TWIN-Cal for "plug and play" (wireless) data transfer. Hardened stainless steel measuring jaws, with rounded jaw ends for internal and external measurements. Available with or without measuring knives for internal or external measurements.

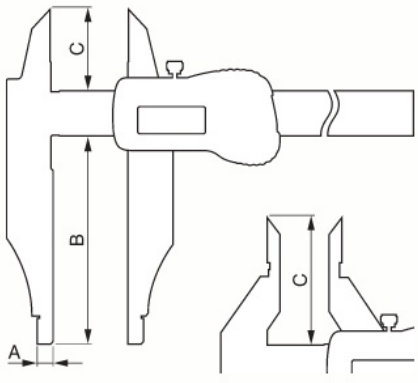
- Measuring range: 0 - 1000 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- Digit height: 11 mm.
- Automatic switch-off.
- Reset.
- Hold function.
- Max. measuring speed: approx. 2.5 m/s.
- Locking screw.
- Protection: IP67 (also in combination with data output cable).
- ISO 13385-1.
- Standard supplied with data output (USB, Digimatic or wireless).
- Delivery in a plastic case with a manufacturer measuring report.
- Power supply: 1 battery type CR2032.



Item No.	Measuring range/mm	Length/mm A	B	C	Price EUR
Without measuring knives (I):					
783.335	0 - 200	5	80	–	419.00
783.337	0 - 300	5	90	–	473.00
783.338	0 - 500	10	150	–	810.00
783.339	0 - 600	10	150	–	999.00
783.340	0 - 800	10	150	–	1,215.00
783.341	0 - 1000	10	150	–	1,544.00
With measuring knives for external measurements (II):					
783.342	0 - 200	5	80	30	452.00
783.344	0 - 300	5	90	37	535.00
783.345	0 - 500	10	150	60	915.00
783.346	0 - 600	10	150	60	1,099.00
783.347	0 - 800	10	150	56	1,385.00
783.348	0 - 1000	10	150	56	1,744.00
With measuring knives for internal measurements (III):					
783.349	0 - 250	5	80	54	512.00
Options:					
495.157	Spare battery				0.40
783.301[1]	TESA Link Connector USB				115.00
783.302[1]	TESA Link Connector Digimatic				249.00
783.555[1]	TESA Link Connector Bluetooth				50.00

[1] The TESA Link Connector will replace the battery cover.



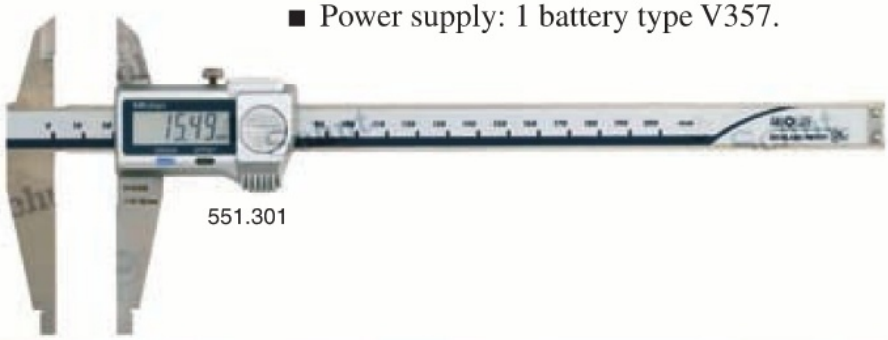


C02.312.EN.20230516

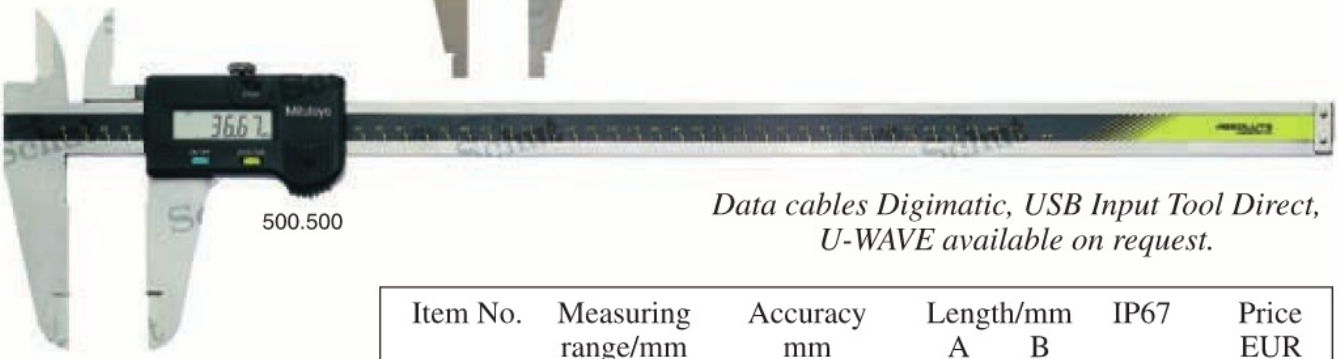
Mitutoyo Absolute Digimatic workshop calipers

Series of large digital calipers with the unique Absolute measuring system to prevent inaccuracy due to an incorrect zero position. The one-time setting of origin remains as the absolute zero position until the battery has to be changed.

- Measuring range: 0 - 1000 mm.
- Resolution: 0.01 mm.
- ABS/INC switchable.
- Digimatic data output.
- On/off switch.
- Reset.
- Max. measuring speed: unlimited.
- With or without measuring knives.
- Locking screw.
- Types I and II with rounded jaw ends for internal measurements: measuring range ≤ 300 mm: from 10 mm, measuring range ≥ 450 mm: from 20 mm.
- Protection: IP40 or IP67.
- Conforms to factory standard.
- Delivery in a plastic case.
- Power supply: 1 battery type V357.

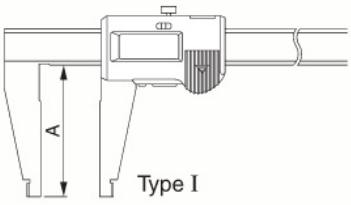


551.301

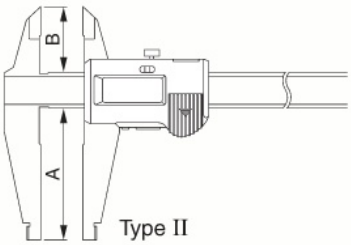


500.500

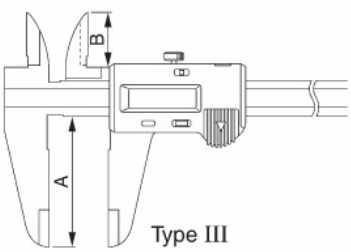
Data cables Digimatic, USB Input Tool Direct, U-WAVE available on request.



Type I



Type II



Type III

Item No.	Measuring range/mm	Accuracy mm	Length/mm A	B	IP67	Price EUR
Without measuring knives (I):						
550.301[1]	0 - 200	±0.03	60	–	IP67	404.00
550.331[2]	0 - 300	±0.04	75	–	IP67	535.00
550.203	0 - 450	±0.05	100	–	–	737.00
550.205	0 - 600	±0.05	100	–	–	840.00
550.207	0 - 1000	±0.07	140	–	–	1,422.00
With measuring knives for external measurements (II):						
551.301[1]	0 - 200	±0.03	60	30	IP67	442.00
551.331[2]	0 - 300	±0.04	90	40	IP67	579.00
551.204	0 - 500	±0.06	150	56	–	933.00
551.206	0 - 750	±0.06	150	56	–	1,278.00
551.207	0 - 1000	±0.07	150	56	–	1,550.00
With measuring knives for internal measurements (III):						
500.500	0 - 450	±0.05	90	38	–	987.00
500.501	0 - 600	±0.05	90	38	–	1,075.00
500.502	0 - 1000	±0.07	130	50	–	1,860.00
Option:						
836.535	Spare battery					0.80

[1] Offset function.
[2] Offset and preset function.

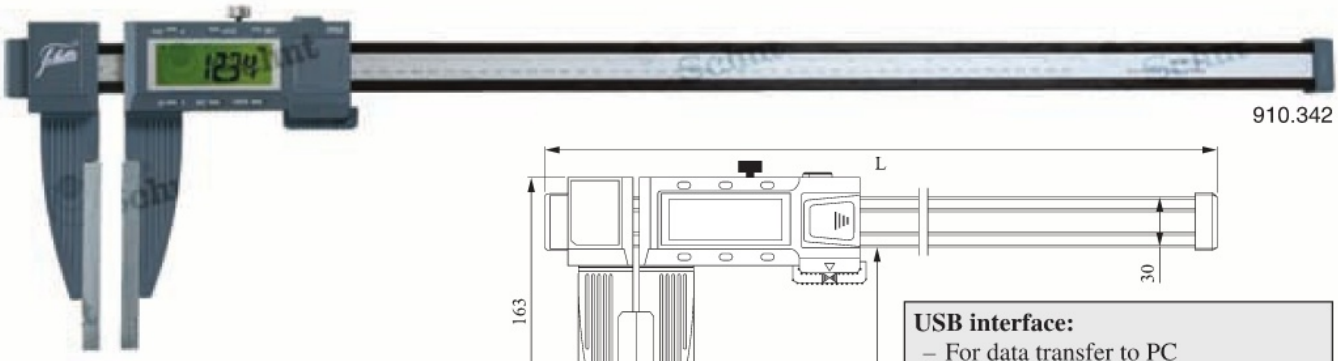
C02.313.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

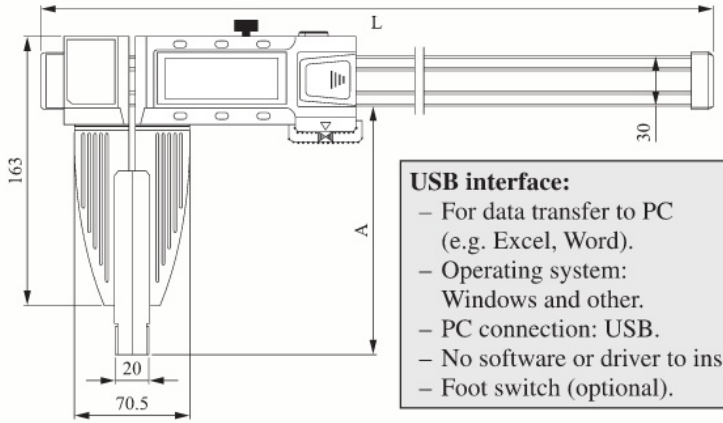
Digital carbon workshop calipers IP65

Workshop calipers with large measuring jaws, Bluetooth, and an ultra lightweight carbon fiber construction that saves up to 65% of the total weight compared to a steel workshop caliper.

- Measuring range: 0 - 2000 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- ABS/INC switchable.
- Digimatic data output.
- Bluetooth data output.
- On/off switch.
- Reset/preset.
- Hold function.
- Fine adjustment by means of carriage for constant measuring force between 5 - 10 N.
- Carbon jaws with steel measuring faces.
- Rounded jaw ends for internal measurements.
- Locking screw.
- Protection: IP65.
- Delivery in a wooden case with a manufacturer measuring report.
- Power supply: 1 battery type CR2032.



910.342



USB interface:
- For data transfer to PC (e.g. Excel, Word).
- Operating system: Windows and other.
- PC connection: USB.
- No software or driver to install.
- Foot switch (optional).



Item No.	Measuring range/mm	Accuracy mm	Jaw length A/mm	Weight kg	Length L/mm	Price EUR
910.342	0 - 600	±0.06	130	1.3	826	403.00
910.343	0 - 600	±0.08	200	1.4	826	468.00
910.344	0 - 600	±0.12[1]	300	1.5	826	536.00
910.345	0 - 1000	±0.08	130	1.5	1226	562.00
910.346	0 - 1000	±0.12	200	1.6	1226	647.00
910.347	0 - 1000	±0.16[1]	300	1.7	1226	724.00
910.349	0 - 1500	±0.16	150	2.0	1736	872.00
910.350	0 - 1500	±0.21[1]	300	2.1	1736	982.00
910.352	0 - 2000	±0.21	200	2.6	2246	1,726.00
910.353	0 - 2000	±0.25[1]	300	2.7	2246	1,898.00

Options:

495.157	Spare battery	0.40
909.686[2]	USB interface	109.00
909.687	Footswitch for USB interface	18.50
910.038	Wireless USB receiver	50.00
910.039[2]	Wireless transmitter	50.00

[1] Depending on the measuring force, only valid in the upper part of the measuring jaws.
[2] For instruments with a Digimatic data output.

C02.371.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo Digimatic carbon workshop calipers

Workshop calipers, with a data output and an ultra lightweight carbon fiber construction that saves up to 50% of the total weight compared to a steel workshop caliper. Interchangeable measuring jaws for special purposes (and the necessary holders) are optionally available.

- Measuring range: 0 - 2000 mm, internal measurements from 20 mm.
- Resolution: 0.01 mm.
- ABS/INC switchable.
- Digimatic data output.
- On/off switch.
- Reset/preset.
- Hold function.
- Offset function for direct read-out of internal measurements.
- Max. measuring speed: unlimited.
- Protection: IP66.
- Conforms to factory standard.
- Delivery in a plastic case.
- Power supply: 1 battery type V357.


914.055


914.057


552.304


552.151

Data cables Digimatic, USB Input Tool Direct, U-WAVE available on request.

Item No.	Measuring range/mm	Accuracy/mm	Jaw length/mm	Weight/kg	Price EUR
With steel measuring faces:					
552.302	0 - 450	±0.04	100	0.7	1,129.00
552.303	0 - 600	±0.04	100	0.8	1,266.00
552.304	0 - 1000	±0.05	150	1.8	1,849.00
552.305	0 - 1500	±0.09	150	2.2	2,352.00
552.306	0 - 2000	±0.12	150	2.6	3,005.00
With ceramic measuring faces:					
552.155	0 - 450	±0.04	100	0.7	1,661.00
552.156	0 - 600	±0.04	100	0.8	1,801.00
Long measuring jaws with steel measuring faces:					
552.150	0 - 450	±0.06	200	1.2	1,661.00
552.151	0 - 600	±0.06	200	1.3	1,801.00
552.152	0 - 1000	±0.07	200	2.1	2,339.00
552.153	0 - 1500	±0.11	200	2.5	3,056.00
552.154	0 - 2000	±0.14	200	2.9	3,845.00
Options:					
836.535	Spare battery				0.80
914.055*	Measuring jaws (pair) for center distances from 10 mm				266.00
914.057*	Measuring jaws (pair) for internal groove diameters from 50 mm				305.00
914.053*	Holders (pair) for separate measuring jaws, up to measuring range 0 - 600 mm				204.00
914.054*	Holders (pair) for separate measuring jaws, from measuring range 0 - 1000 mm				209.00

* Not suited for use with the workshop calipers with long measuring jaws (552.150 - 154).

C02.277.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Universal digital calipers

Large universal digital calipers for internal and external measurements.

In combination with these universal calipers many inserts are available e.g. for internal/external measurements or measuring center distances between bores up to ø 14.5 mm.

- Internal measuring range[1]: 20 - 300 mm.
- External measuring range[1]: 0 - 300 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Large LCD display.
- Locking screw.
- Power supply: 1 battery type V357.
- Delivery without inserts.

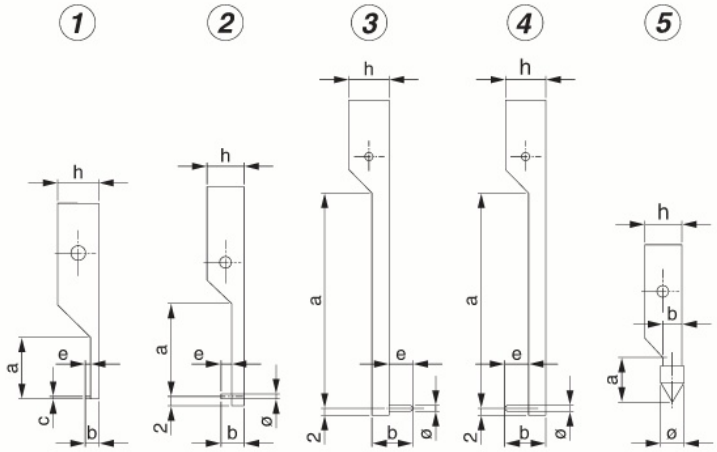


910.285

PRICE

Item No.	Measuring range/mm internal[1]	external[1]	Price EUR
910.285	20 - 200	0 - 200	202.00
910.286	20 - 300	0 - 300	263.00
Option:			
836.535	Spare battery		0.80

[1] The measuring range can change depending on inserts.



PRICE

Inserts

No.	Item No.	Description	Length/mm a	b	c	e	h	ø mm	Price EUR
①	910.287	For internal/external measurements	12	2.5	0.4	1	8		44.00
①	910.288	For internal/external measurements	16	3.5	0.4	2	8		44.00
①	910.289	For internal/external measurements	25	7.5	0.6	5	8		44.00
①	910.290	For internal/external measurements	30	10	1	6.5	8		44.00
①	910.292	For internal/external measurements	80	22	1	10	12		48.00
②	910.293	For internal/external measurements	20	5		2	8	1	50.00
②	910.294	For internal/external measurements	40	10		5	8	2	50.00
②	910.295	For internal/external measurements	80	22		10	12	2	51.00
③	910.296	For external measurements	70	12		7	12	2	60.00
③	910.297	For external measurements	70	12		7	12	4	60.00
④	910.298	For internal measurements	70	12		7	12	2	60.00
④	910.299	For internal measurements	70	12		7	12	4	60.00
⑤	910.300	For center distances	10	4	–		8	5	77.00
⑤	910.301	For center distances	20	4	–		8	10	80.00
⑤	910.302	For center distances	25	8	–		12	15	85.00

C02.350.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Universal digital calipers

Universal digital calipers with exchangeable measuring inserts for special purposes. Thanks to the seven interchangeable measuring inserts, which are available as an option, you are very flexible with these universal calipers.

- Internal measuring range [1]: 40 - 500 mm.
- External measuring range [1]: 0 - 500 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Large LCD display.
- Locking screw.
- Power supply: 1 battery type V357.
- Standard supplied with measuring insert 1.

Only 910.306:

- Absolute digital display.
- Reset/preset.
- Power supply: 1 battery type CR2032.

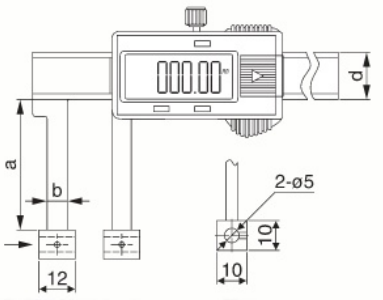


910.303

PRICE

Item No.	Measuring range/mm internal [1]	external [1]	a/mm	b/mm	Price EUR
910.303	40 - 150	0 - 150	45	7	165.00
910.304	40 - 200	0 - 200	85	10	193.00
910.305	40 - 300	0 - 300	100	15	256.00
910.306*	40 - 500	0 - 500	140	20	506.00
Options:					
836.535	Spare battery type V357				0.80
495.157	Spare battery type CR2032				0.40

[1] The measuring range can change depending on inserts. The measuring range indicated is with standard inserts.

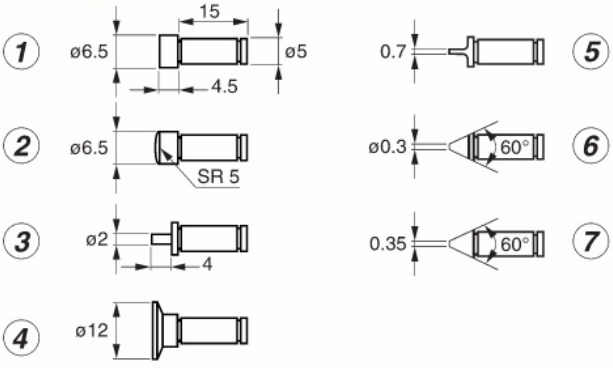




* Model with absolute digital display, fine adjustment and preset function.

Schut

No.	Item No.	Description measuring faces	Price EUR
Measuring inserts, per pair:			
①	906.788	flat	15.90
②	906.789	spherical	19.00
③	906.790	small	28.60
④	906.791	disc	28.60
⑤	906.792	knife/flat	38.00
⑥	906.793	point	28.60
⑦	906.794	knife	48.00
	906.795	Set of 7 pairs	161.00



C02.351.EN.20230516

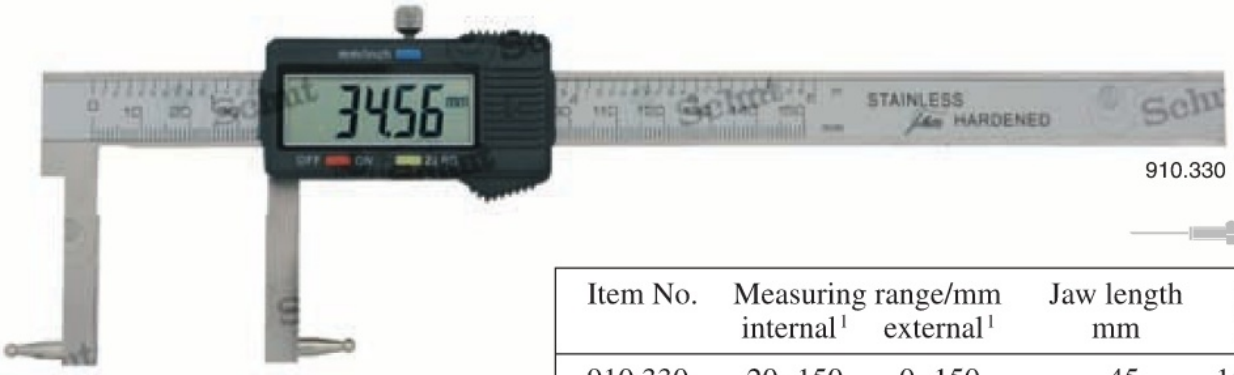
Universal digital calipers

Universal digital calipers with interchangeable measuring inserts for varying purposes. By using M2.5 thread, many different measuring inserts can be used in combination with these calipers. Please see the dial indicator accessories for these inserts.

- Internal measuring range[1]: 20 - 500 mm.
- External measuring range[1]: 0 - 500 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Large LCD display.
- Locking screw.
- Power supply: 1 battery type V357.
- Standard supplied without inserts.

Only 910.333:

- Absolute digital display.
- Reset/preset.
- Power supply: 1 battery type CR2032.



910.330

PRICE



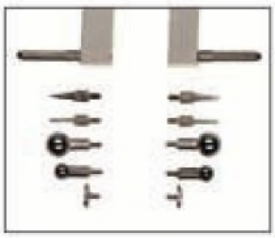
Schut

Item No.	Measuring range/mm internal[1]	external[1]	Jaw length mm	Price EUR
910.330	20 - 150	0 - 150	45	167.00
910.331	25 - 200	0 - 200	85	195.00
910.332	30 - 300	0 - 300	90	259.00
910.333*	35 - 500	0 - 500	150	511.00
Options:				
836.535	Spare battery type V357			0.80
495.157	Spare battery type CR2032			0.40

[1] The measuring range can change depending on inserts.

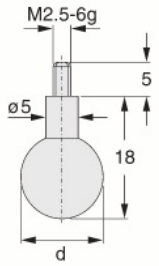


* Model with absolute digital display, fine adjustment and preset function.

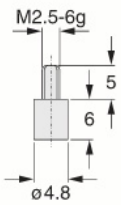




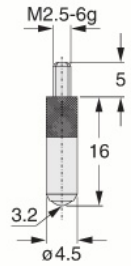
Inserts examples. For more information see the dial indicator accessories section.



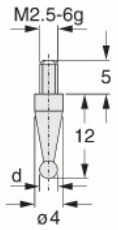
852.426 - 430



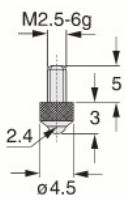
852.431/432



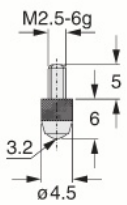
852.406 - 409



852.414 - 425



852.401



852.402 - 405

C02.354.EN.20230516

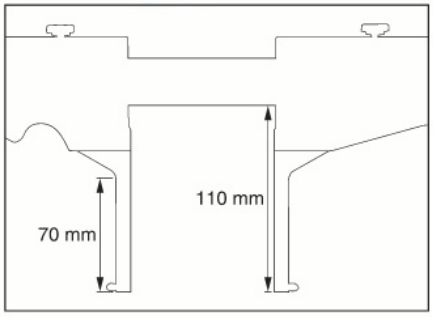
© 2023, Schut Geometrische Meettechniek bv

Digital lightweight universal workshop caliper

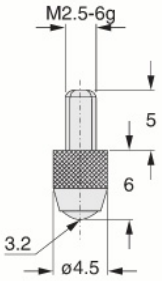
Universal lightweight aluminum workshop caliper with interchangeable measuring inserts for special purposes with both measuring jaws being moveable. All inserts with M2.5 thread can be used with this caliper. Please see the dial indicator accessories section for these inserts.

- Internal measuring range [1]: 30 - 300 mm.
- External measuring range [1]: 0 - 300 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- Tolerance function.
- On/off switch.
- Reset/preset.
- Interchangeable measuring inserts: 1 pair included (ball attachment ø 3.2 mm, l = 6 mm).
- Fine adjustment.
- Locking screws.
- Delivery in a plastic case.
- Power supply: 1 battery type CR2032.



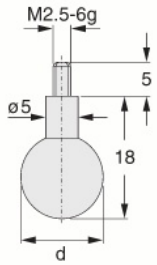


Item No.	Measuring range/mm internal [1]	external [1]	Accuracy mm	Weight kg	Price EUR
853.206	30 - 300	0 - 300	0.04	1	756.00
Option:					
495.157 Spare battery					0.40

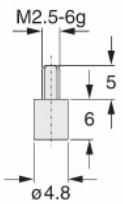


[1] The measuring range can change depending on inserts.

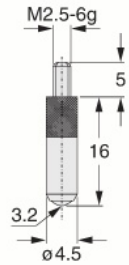
Inserts examples. For more information see the dial indicator accessories section.



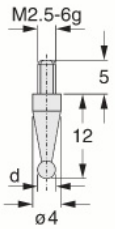
852.426 - 430



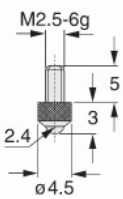
852.431/432



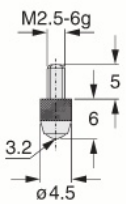
852.406 - 409



852.414 - 425



852.401



852.402 - 405

C02.338.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

HELIOS-PREISSER universal digital calipers

Universal calipers with interchangeable measuring inserts for special purposes. All inserts with M2.5 thread can be used with these calipers. Please see the dial indicator accessories section for these inserts.

- Internal measuring range[1]: 15 - 500 mm.
- External measuring range[1]: 0 - 500 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- ABS/INC switchable.
- Variable data output (Digimatic/USB/ RS232C).
- On/off switch.
- Reset/preset.
- Hold function.
- Interchangeable measuring inserts: 150 mm: 2 pairs included (ball ø5 mm and planar ø4.8 mm), 300/500 mm: not included.
- Locking screw.
- Stainless steel construction.
- Protection: IP65 (836.548: IP67).
- Delivered with accurate setting standard 50 mm (only 836.548).
- Delivery in a wooden case.
- Power supply: 1 battery type CR2032.



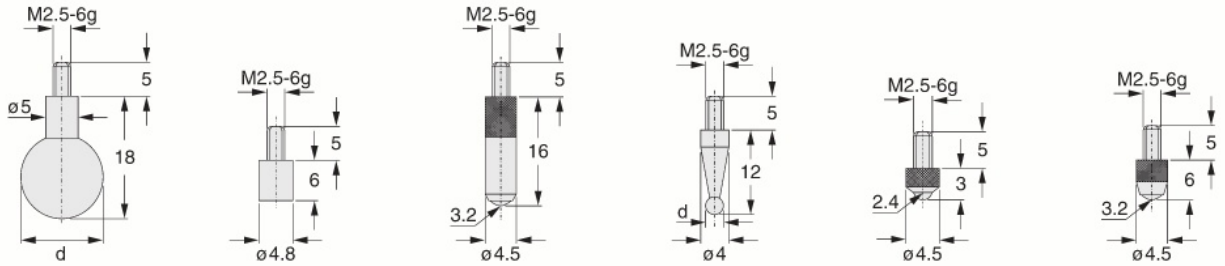
Item No.	Measuring range/mm internal[1]	external[1]	Jaw length mm	Jaw width mm	Weight kg	Price EUR
836.548	15 - 150	0 - 150	40	5	0.7	405.00
836.569	30 - 300	0 - 300	90	12	1.2	685.00
836.570	40 - 500	0 - 500	100	16	2.5	877.00

Options:

495.157	Spare battery	0.40
836.119	Digimatic output cable (2 m)	73.00
836.552	USB output cable (2 m) incl. software	82.00
836.571	RS232C output cable (2 m)	57.00

[1] The measuring range can change depending on inserts.

Inserts examples. For more information see the dial indicator accessories section.



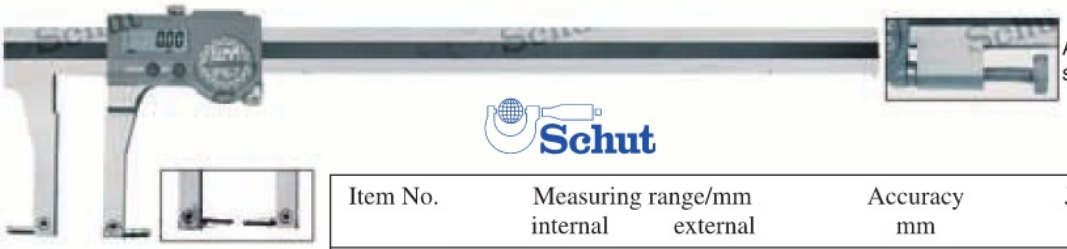
C02.308.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

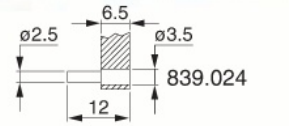
Universal digital calipers IP67

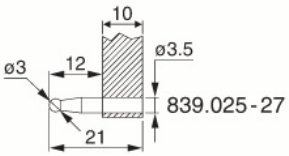
Large universal digital calipers made of stainless steel for internal and external measurements. In combination with these universal calipers many inserts are available e.g. for measuring thread. See accessories universal digital calipers.

- Internal measuring range: 24 - 650 mm.
- External measuring range: 0 - 570 mm.
- Resolution: 0.01 mm.
- Accuracy: ±0.02 or ±0.03 mm.
- mm/inch conversion.
- Proximity data output.
- On/off switch.
- Reset/preset.
- Interchangeable measuring inserts.
- Many extensions and inserts available.
- Protection: IP67.
- Conforms to factory standard.
- Delivery in a wooden case with a manufacturer measuring report, two inserts and two insert holders.
- Power supply: 1 battery type CR2032.



Also models with spring system available.





Item No.	Measuring range/mm internal	external	Accuracy mm	Jaw length mm	Price EUR
839.024	24 - 250	0 - 210	±0.02	64	854.00
839.025[1]	42 - 350	0 - 270	±0.03	103	954.00
839.026[1]	42 - 450	0 - 370	±0.03	103	1,199.00
839.027[1]	42 - 650	0 - 570	±0.03	103	1,578.00
Options:					
495.157	Spare battery				0.40
840.666	Proximity USB cable (2 m)				235.00

[1] Inserts 837.821 and insert holders standard included.

Universal digital calipers accessories

Inserts for thread measurements, per pair

Pitch mm	Item No.	Price EUR	Item No.	Price EUR
	Internal meas.:		**External meas.:**	
0.4 - 0.5	839.010	169.00	839.018	169.00
0.6 - 0.9	839.011	169.00	839.019	169.00
1 - 1.75	839.014	169.00	839.020	169.00
2 - 3	839.015	169.00	839.021	169.00
3.5 - 5	839.016	169.00	839.022	169.00
5.5 - 7	839.017	169.00	839.023	169.00



839.010 - 839.017



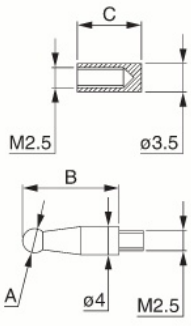
839.018 - 839.023

Steel inserts (M2.5), per pair

Item No.	Diameter A/mm	Length B/mm	Price EUR
837.818	1.5	12	58.00
837.819	2	12	58.00
837.820	2.5	12	58.00
837.821	3	12	58.00
837.822	3.5	12	58.00
837.823	4	12	58.00
837.824	4.5	12	58.00
837.825	5	12	58.00
837.826	5.5	12	58.00
837.827	6	12	58.00
837.828	6.5	12	63.00
837.829	7	18	63.00
837.830	8	18	63.00
837.831	10	18	63.00

Insert holders (M2.5), per piece

Item No.	Length C/mm	Price EUR
837.832	8	28.00
837.833	10	28.00
839.054	12	46.00
839.055	20	54.00
839.056	50	78.00



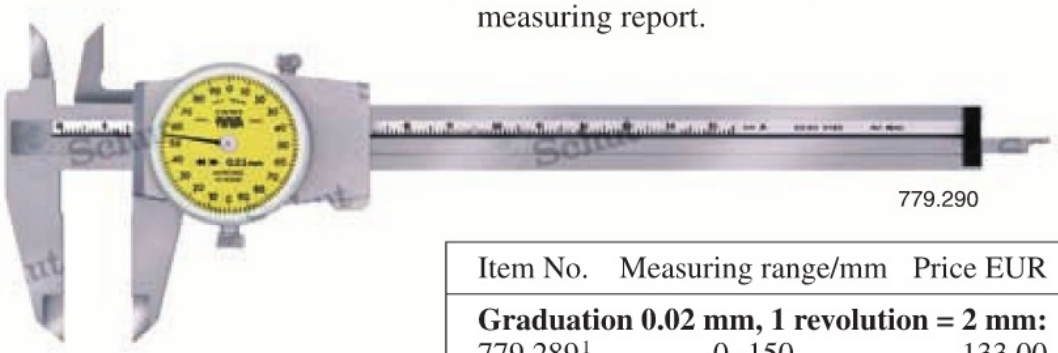
C02.358.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

TESA dial calipers

Rugged dial calipers model CCMA-M and CCMA-P, out of hardened stainless steel and with patented shockproof design. Ideal for use in the workshop.

- Measuring range: 0 - 300 mm.
- Graduation: 0.01 or 0.02 mm.
- Rotatable dial, ø 32 mm.
- Shockproof.
- Thumb wheel (only 782.528/529).
- Hardened stainless steel construction.
- ISO 13385-1.
- Delivery in a plastic case with a manufacturer measuring report.



779.290



782.444



779.289

Item No.	Measuring range/mm	Price EUR
Graduation 0.02 mm, 1 revolution = 2 mm:		
779.289[1]	0 - 150	133.00
779.290	0 - 150	144.00
782.528[2]	0 - 200	231.00
782.529[2]	0 - 300	323.00
Graduation 0.01 mm, 1 revolution = 1 mm:		
782.444	0 - 150	155.00

[1] Plastic dial housing.
[2] With thumb wheel.

Mitutoyo dial calipers

Mitutoyo dial calipers, made of special corrosion-free steel, with hardened and lapped measuring faces and protected rack. The slider is titanium coated (except 505.745).

- Measuring range: 0 - 300 mm.
- Graduation: 0.01 mm or 0.02 mm.
- Rotatable dial.
- Shockproof.
- Caliper and dial with locking screw.
- Dial indicator jewel beared.
- Conforms to factory standard.
- Delivery in a plastic case with a manufacturer measuring report.



505.732

Item No.	Measuring range/mm	Accuracy mm	Price EUR
Graduation 0.02 mm, 1 revolution = 2 mm:			
505.730	0 - 150	±0.03	119.00
505.731	0 - 200	±0.03	240.00
505.745	0 - 300	±0.04	360.00
Graduation 0.01 mm, 1 revolution = 1 mm:			
505.732	0 - 150	±0.02	136.00

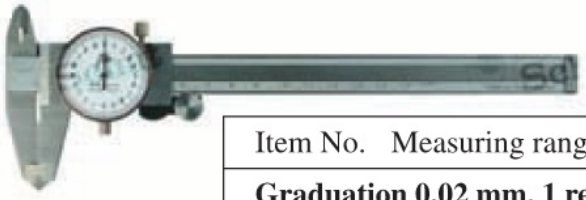
C02.215.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Dial calipers

Stainless steel dial calipers with protected rack.

- Measuring range: 0 - 300 mm.
- Graduation: 0.01 or 0.02 mm.
- Accuracy: ±0.03 mm.
- 1 pointer revolution = 1 or 2 mm.
- Rotatable dial.
- Thumb wheel.
- Delivery in a plastic case.



Item No.	Measuring range/mm	Price EUR
Graduation 0.02 mm, 1 revolution = 2 mm:		
906.500	0 - 150	39.30
906.499	0 - 200	60.00
906.501	0 - 300	75.00
Graduation 0.01 mm, 1 revolution = 1 mm:		
906.498	0 - 150	48.00

High-quality plastic calipers

These modern designed Swiss calipers are made of fiberglass reinforced plastic, which makes them very firm and light, wear-proof, and resistant to all kinds of chemicals – ideal for the workshop!

- Measuring range: 0 - 150 mm.
- Thumb wheel.
- Flat depth rod.
- Delivery in a plastic case.

Vernier caliper

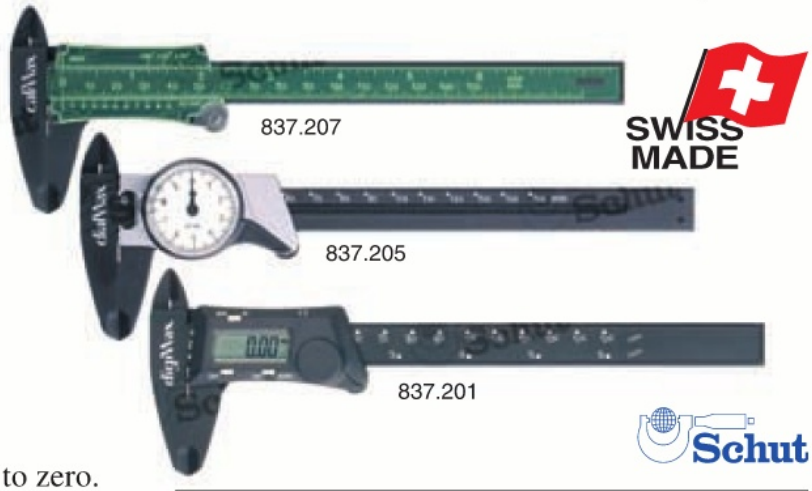
- Vernier: 0.1 mm / 1/64 inch.
- The scale lights up with minimal light.

Dial caliper

- Graduation: 0.1 mm.
- 1 pointer revolution = 10 mm.
- Rotatable dial, ø 32 mm.
- The dial is shockproof and can be set to zero.

Digital caliper

- Resolution: 0.01 mm.
- mm/inch conversion.
- On/reset switch.
- Off switch.
- Power supply: 1 battery type V357.



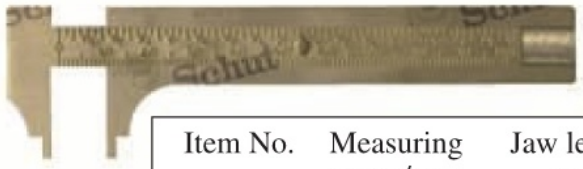
Item No.	Description	Price EUR
837.207	Vernier caliper	19.60
837.205	Dial caliper	23.90
837.201	Digital caliper	68.00
Option:		
836.535	Spare battery	0.80

Brass caliper

Brass caliper with a vernier.

- Measuring range: 0 - 100 mm.
- Vernier: 0.1 mm, parallax-free.
- Dovetail guide.
- Antimagnetic.

NEW



Item No.	Measuring range/mm	Jaw length mm	Price EUR
841.629	0 - 100	20	6.80

C02.359.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Calipers

Hardened stainless steel calipers with a matt chrome-plated beam and vernier.

- Measuring range: 0 - 300 mm.
- Vernier: 0.05 or 0.02 mm.
- Raised sliders (except 909.538).
- Accuracy: ±0.03 mm.
- Monoblock.
- Locking screw or spring release.
- Flat depth rod (except 909.423/424).
- Thread table on the back side.
- Delivery in a sleeve.



909.521

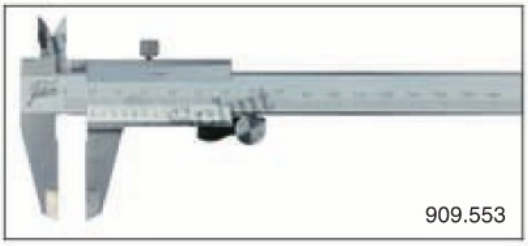
NEW



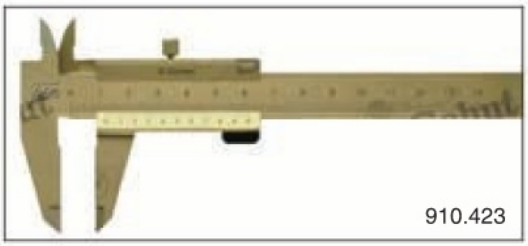
909.525

PRICE

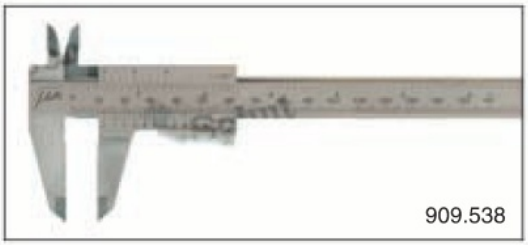
Schut



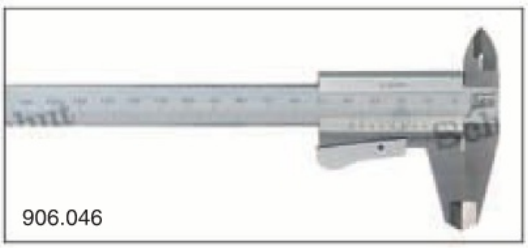
909.553



910.423



909.538



906.046

Item No.	Measuring range/mm	Vernier mm	Jaw length mm	Price EUR
Locking screw on top:				
909.541	0 - 150	0.02	40	19.30
909.542	0 - 160	0.02	40	24.10
909.543	0 - 200	0.02	50	27.40
909.544	0 - 300	0.02	62	53.00
Locking screw on top:				
909.520	0 - 100	0.05	30	18.20
909.521	0 - 150	0.05	40	19.30
909.522	0 - 160	0.05	40	24.10
909.523	0 - 200	0.05	50	27.40
909.524	0 - 300	0.05	62	53.00
With thumb wheel (locking screw on top):				
909.553	0 - 150	0.05	40	21.00
909.554	0 - 200	0.05	50	30.00
909.555	0 - 300	0.05	62	58.00
Spring release:				
909.525	0 - 150	0.05	40	20.00
909.526	0 - 160	0.05	40	24.80
909.527	0 - 200	0.05	50	28.50
909.528	0 - 300	0.05	62	53.00
Brass calipers (without depth rod):				
910.424	0 - 150	0.05	40	114.00
910.423	0 - 150	0.02	40	116.00
Parallax-free (spring release):				
909.538	0 - 150	0.05	40	55.00
Spring release, left-handed model:				
906.046	0 - 150	0.05	40	24.00
906.047	0 - 150	0.02	40	25.40

C02.360.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo calipers

Mitutoyo calipers suitable for outside, inside, height and depth measurements. Measuring jaws and knives with beveled measuring faces for measuring small grooves and bores.

- Measuring range: 0 - 300 mm.
- Vernier: 0.05 mm / 1/128 inch or 0.02 mm.
- Flat depth rod (except 530.102: round depth rod ø 1.9 mm).
- Raised sliders.
- Thread table on the back side (only 531.122/530.316).
- Matt chrome-plated beam and vernier.
- Lapped, hardened steel measuring faces.
- Tungsten carbide outside measuring jaws (only 530.320/335).
- Tungsten carbide inside measuring jaws (only 530.335).



530.104


531.122

Item No.	Measuring range/mm	Vernier mm	Accuracy mm	Jaw length mm	Price EUR
Locking screw on top:					
530.122[1]	0 - 150	0.02	±0.03	40	44.00
530.123[1]	0 - 200	0.02	±0.03	50	72.00
530.124[1]	0 - 300	0.02	±0.04	64	222.00
Locking screw on top:					
530.104	0 - 150	0.05	±0.05	40	36.00
530.114	0 - 200	0.05	±0.05	50	92.00
530.115	0 - 300	0.05	±0.08	64	222.00
Locking screw on top:					
530.102[1]	0 - 150	0.05	±0.05	40	57.00
530.101[1]	0 - 150	0.05	±0.05	40	37.00
Locking screw on top:					
530.320[1]	0 - 150	0.05	±0.05	40	143.00
Locking screw on top:					
530.335[1]	0 - 150	0.05	±0.05	40	225.00
Locking screw on the bottom-side:					
530.316	0 - 150	0.05	±0.05	40	64.00
Spring release:					
531.122	0 - 150	0.05	±0.05	40	45.00
531.108	0 - 200	0.05	±0.05	50	107.00
531.109	0 - 300	0.05	±0.08	64	240.00

[1] Without inch graduation.

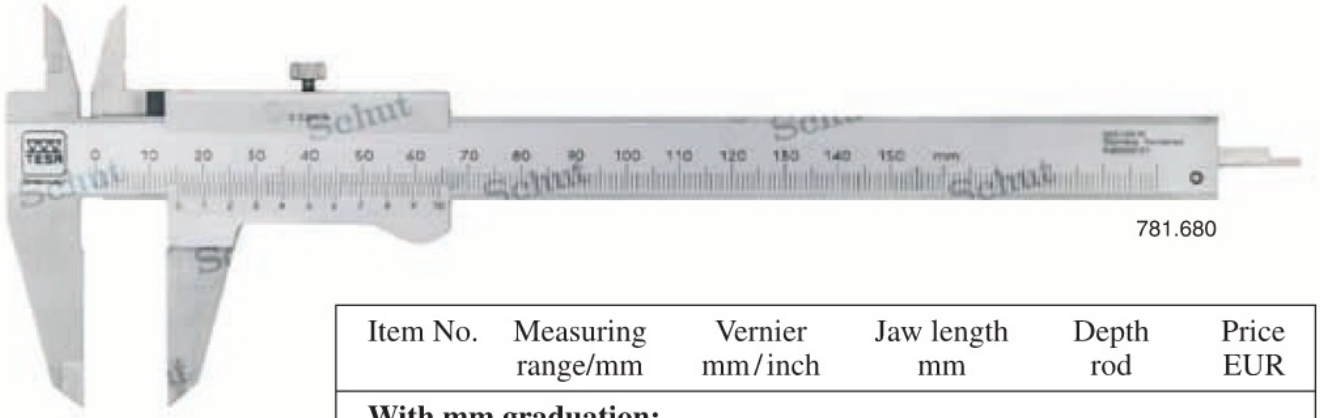
C02.278.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

TESA calipers

Swiss high-precision stainless steel caliper with a matt chrome-plated beam and vernier.

- Measuring range: 0 - 300 mm.
- Vernier: 0.02 mm, 0.05 mm or 0.05 mm / 1/128 inch.
- Locking screw.
- ISO 13385-1.
- Delivery in a plastic case with a declaration of conformity.



781.680



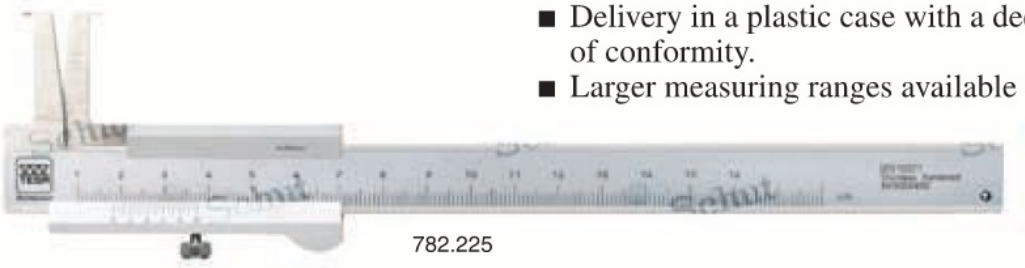
783.276

Item No.	Measuring range/mm	Vernier mm / inch	Jaw length mm	Depth rod	Price EUR
With mm graduation:					
781.680	0 - 150	0.02	40	flat	38.00
783.275	0 - 150	0.05	40	flat	38.00
With mm/inch graduation:					
783.489	0 - 150	0.02 / 0.001	40	flat	38.00
783.276	0 - 150	0.05 / 1/128	40	round	38.00
783.277	0 - 200	0.05 / 1/128	50	flat	56.00
783.278	0 - 300	0.05 / 1/128	64	–	102.00

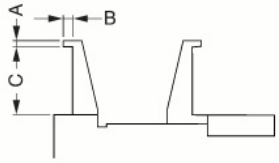
TESA calipers with outside angled measuring jaws

Specially designed for measuring bore and internal groove diameters, e.g. on internal safety rings.

- Measuring range: 10 - 160 mm.
- Vernier: 0.05 mm.
- Locking screw.
- Hardened stainless steel construction.
- Conforms to factory standard.
- Delivery in a plastic case with a declaration of conformity.
- Larger measuring ranges available on request.



782.225



Item No.	Measuring range/mm	Length/mm A	B	C	Price EUR
782.225	10 - 160	0.9	3	25	102.00
782.226	20 - 160	2	5	40	113.00

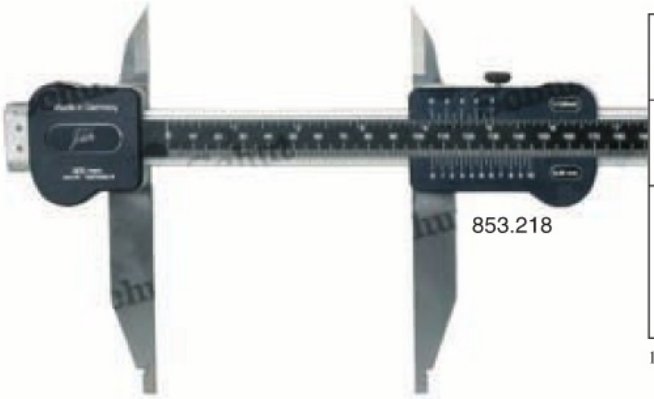
C02.216.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Parallax-free lightweight workshop calipers

Lightweight parallax-free aluminum workshop calipers with interchangeable hardened stainless steel measuring jaws, with rounded jaw ends for internal and external measurements. High contrast reading due to white print on black background. Excellent sliding properties due to double prismatic joint.

- Measuring range: 0 - 900 mm.
- Vernier: 0.05 mm / 1/128 inch.
- Jaw length standard delivered jaw: 90 mm.
- Length meas. knives for external measurements: 40 mm.
- Parallax-free.
- Locking screw.
- Delivery in a plastic case.


853.218

Item No.	Measuring range/mm	Weight kg	Price EUR
853.217	0 - 500	0.6	238.00
853.218	0 - 900	0.8	432.00
Options:			
853.219[1]	Pair measuring jaws 90 mm		50.00
853.220	Pair measuring jaws 125 mm		63.00
853.221	Pair measuring jaws 150 mm		71.00

[1] Standard included.

Workshop calipers

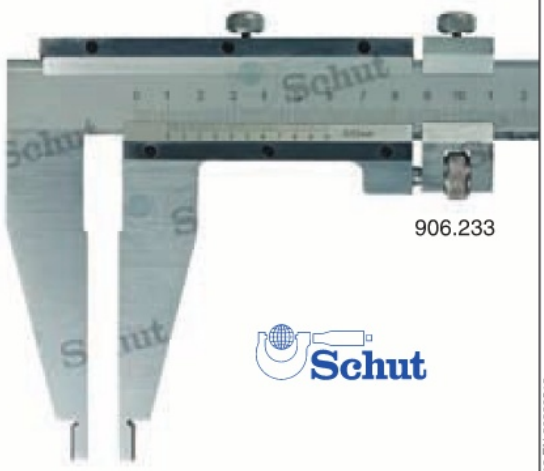
Hardened stainless steel workshop calipers with a matt chrome-plated beam and vernier.

- Measuring range: 0 - 1500 mm.
- Vernier: 0.02 mm.
- Raised sliders.
- Fine adjustment.
- With measuring knives or rounded jaw ends for internal measurements.
- Locking screws.
- Delivery in a plastic case.


906.230



Item No.	Measuring range mm	Internal measurements from/mm	Jaw length mm	Price EUR
With measuring knives for internal measurements:				
906.230	0 - 300	–	65	74.00
With rounded jaw ends for internal measurements:				
906.231	0 - 300	10	90	81.00
906.233	0 - 500	10	100	96.00
906.234	0 - 600	10	100	96.00
906.235	0 - 1000	20	125	315.00
906.236	0 - 1500	20	125	765.00


906.233

Schut

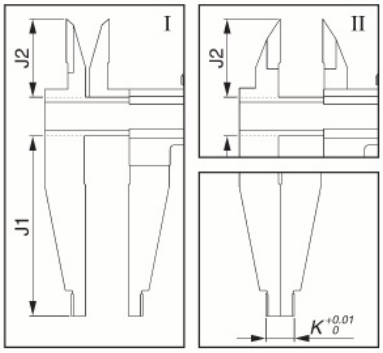
C02.218.EN.20230516

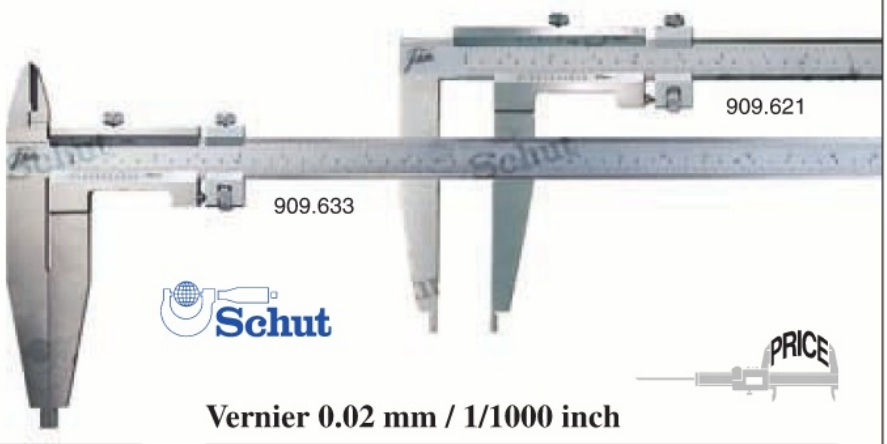
© 2023, Schut Geometrische Meettechniek bv

Workshop calipers

Large and solid, stainless steel calipers with a matt chrome-plated beam and vernier.

- Measuring range: 0 - 2000 mm.
- Vernier: 0.02 mm / 1/1000 inch or 0.05 mm / 1/128 inch.
- Fine adjustment.
- With or without measuring knives for internal or external measurements.
- Monoblock.
- Rounded jaw ends for internal measurements; measuring range ≤ 600 mm: $K = 10$ mm, measuring range > 600 mm: $K = 20$ mm.
- Locking screws.
- Delivery in a wooden case.





Vernier 0.05 mm / 1/128 inch

Item No.	Measuring range mm	Length mm J1	J2	K	Price EUR
Without measuring knives:					
909.670	0 - 300	90	–	10	97.00
909.620	0 - 450	150	–	10	177.00
909.621	0 - 500	150	–	10	183.00
909.622	0 - 600	150	–	10	197.00
909.623	0 - 800	150	–	20	384.00
909.624	0 - 1000	150	–	20	445.00
909.639	0 - 1500	200	–	20	980.00
909.640	0 - 2000	200	–	20	1,335.00
Meas. knives for internal measurements (I):					
909.672	0 - 300	90	22	10	126.00
909.632	0 - 400	100	46	10	176.00
909.633	0 - 500	150	46	10	263.00
909.634	0 - 600	150	46	10	315.00
909.635	0 - 750	150	54	20	583.00
909.636	0 - 1000	150	54	20	669.00
909.637	0 - 1500	200	66	20	1,344.00
909.638	0 - 2000	200	66	20	1,633.00
Meas. knives for external measurements (II):					
909.674	0 - 300	90	22	10	132.00
909.656	0 - 400	100	46	10	185.00
909.657	0 - 500	150	46	10	291.00
909.658	0 - 600	150	46	10	330.00
909.659	0 - 750	150	54	20	585.00
909.660	0 - 1000	150	54	20	702.00
909.661	0 - 1500	200	66	20	1,411.00
909.662	0 - 2000	200	66	20	1,715.00

Vernier 0.02 mm / 1/1000 inch

Item No.	Measuring range mm	Length mm J1	J2	K	Price EUR
Without measuring knives:					
909.671	0 - 300	90	–	10	97.00
909.615	0 - 450	150	–	10	177.00
909.616	0 - 500	150	–	10	183.00
909.617	0 - 600	150	–	10	197.00
909.618	0 - 800	150	–	20	384.00
909.619	0 - 1000	150	–	20	472.00
909.641	0 - 1500	200	–	20	980.00
909.642	0 - 2000	200	–	20	1,335.00
Meas. knives for internal measurements (I):					
909.673	0 - 300	90	22	10	126.00
909.625	0 - 400	100	46	10	185.00
909.626	0 - 500	150	46	10	263.00
909.627	0 - 600	150	46	10	315.00
909.628	0 - 750	150	55	20	583.00
909.629	0 - 1000	150	55	20	669.00
909.630	0 - 1500	200	66	20	1,344.00
909.631	0 - 2000	200	66	20	1,633.00
Meas. knives for external measurements (II):					
909.675	0 - 300	90	22	10	132.00
909.663	0 - 400	100	46	10	194.00
909.664	0 - 500	150	46	10	290.00
909.665	0 - 600	150	46	10	330.00
909.666	0 - 750	150	55	20	585.00
909.667	0 - 1000	150	55	20	703.00
909.668	0 - 1500	200	66	20	1,411.00
909.669	0 - 2000	200	66	20	1,715.00

C02.318.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

HELIOS-PREISSER workshop calipers

Large and solid, stainless steel calipers with a matt chrome-plated beam and vernier. The calipers with a measuring range up to 300 mm have a mm/inch graduation, those with a measuring range of 400 mm and more only have a metric graduation.

- Measuring range: 0 - 2000 mm.
- Vernier: 0.05 mm.
- Rounded jaw ends for internal measurements.
- With or without fine adjustment.
- With or without measuring knives for external measurements.
- Locking screw.
- Delivery with a manufacturer measuring report.



Without measuring knives

Item No.	Measuring range/mm	Jaw length mm	Price EUR
Without fine adjustment:			
836.360	0 - 200	80	107.00
836.363	0 - 500	150	407.00
836.365	0 - 800	150	504.00
836.367	0 - 1000	150	629.00
With fine adjustment:			
836.340	0 - 2000	300	2,663.00

With meas. knives for external measurements

Item No.	Measuring range/mm	Jaw length mm	Price EUR
Without fine adjustment:			
836.371	0 - 300	90	164.00
836.372	0 - 400	125	379.00
836.373	0 - 500	150	489.00
836.375	0 - 800	150	628.00
With fine adjustment:			
836.390	0 - 200	80	147.00
836.391	0 - 300	90	189.00
836.392	0 - 400	125	429.00
836.393	0 - 500	150	528.00

C02.219.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Probe set for calipers

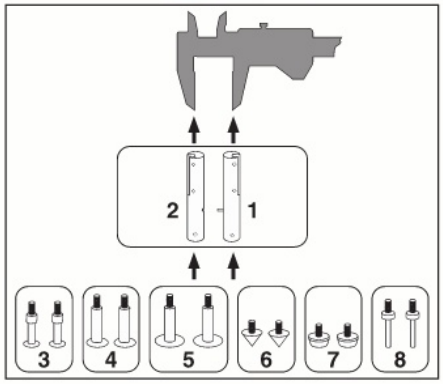
This probe set enlarges the possibilities with a regular caliper. Probe holders are slid on the measuring jaw of the caliper. The different probes can be screwed into them. The probe set makes it possible to perform measurements which are not possible with a regular caliper, such as measuring internal grooves and center distances.

- Screw thread probe holder: M3.
- Maximum caliper jaw thickness: 3.5 mm (mostly compatible with calipers with a measuring range ≤ 150 mm).
- Delivery in a wooden case.

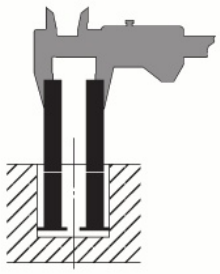




The set consists of:
① right probe holder,
② left probe holder,
③ pair of disc probes ø 6 mm,
④ pair of disc probes ø 10 mm,
⑤ pair of disc probes ø 12.5 mm,
⑥ pair of cone probes ø 9 mm, 60°,
⑦ pair of cone probes ø 12.5 mm, 60°,
⑧ pair of cylindrical probes ø 1.5 x 9 mm,
⑨ hexagon key.

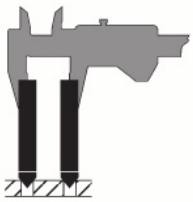


Item No.	Description	Price EUR
909.655	Probe set for calipers	61.00

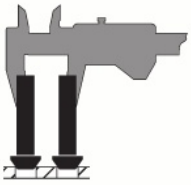


ø		
6 mm	>16 mm	>4 mm
10 mm	>20 mm	>1 mm
12.5 mm	>22 mm	>0 mm

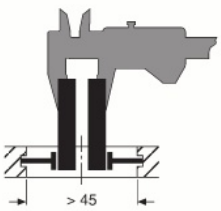
3, 4, 5
Disc probes for internal measurements.



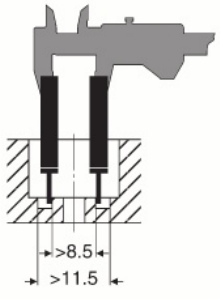
6
Conical probes (9 mm) for measuring center distances of two equal holes.



7
Conical probes (12.5 mm) for measuring center distances of two equal holes.



8
Horizontally positioned cylindrical probes for measuring internal grooves > 45 mm.



8
Vertically positioned cylindrical probes.

C02.225.EN.20230516

Caliper inspection set

For checking the accuracy of DIN 862 calipers. The set consists of three special steel gauge blocks (30 mm, 41.3 mm and 131.4 mm, ISO 3650 class 1), two steel setting rings (ø4 mm and ø25 mm) and a pair of gloves.

- Delivery in a wooden case with a manufacturer measuring report.

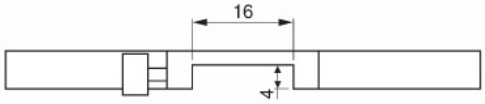


Item No.	Description	Price EUR
909.347	Caliper inspection set	253.00

Depth measuring base for calipers

Universal depth measuring base for stable and accurate depth measurements. Suitable for most of the calipers with a depth rod and a measuring range up to 200 mm. For more information please contact our sales department.





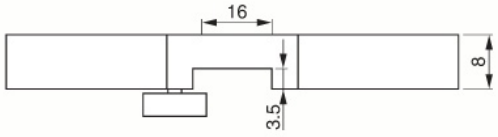
Item No.	Measuring face *l* x *w*/mm	Price EUR
909.156	75 x 6	19.70

Depth measuring bases for calipers

Universal depth measuring bases for stable and accurate depth measurements. Suitable for most of the calipers with a depth rod and a measuring range up to 200 mm. For more information please contact our sales department.



909.386



Item No.	Measuring face *l* x *w*/mm	Price EUR
909.386	80 x 8	18.30
909.387	100 x 8	20.40

C02.310.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo caliper inspection set

For checking the accuracy of DIN 862 or ISO 13385-1: 2011.
516.124: gauge blocks 30, 41.3 and 131.4 mm, setting rings ø4 and ø25 mm.
516.526: gauge blocks 10, 30, 50 and 125 mm, setting rings ø4 and ø25 mm, measuring pin ø10 mm.

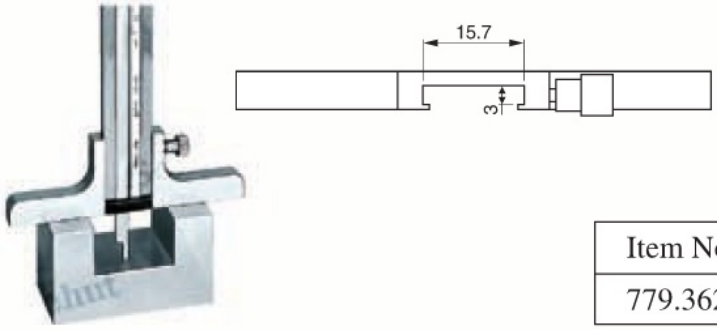
- Delivery in a wooden case with a manufacturer measuring report.



Item No.	Description	Price EUR
516.124	Inspection set DIN 862	895.00
516.526	Inspection set ISO 13385-1: 2011	1,192.00

TESA depth measuring base for calipers

Suitable for most of the TESA calipers with a depth rod and measuring range 150 mm.

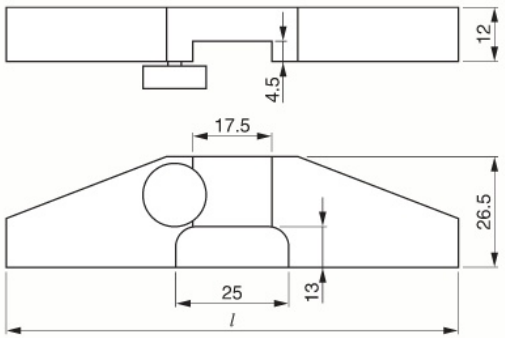




Item No.	Measuring face *l* x *w*/mm	Price EUR
779.362	75 x 6	36.00

Mitutoyo depth measuring bases for calipers

Universal depth measuring bases for stable and accurate depth measurements. Suitable for most of the calipers with a depth rod and a measuring range up to 200 mm.





150.083



150.084



Item No.	Measuring face *l* x *w*/mm	Price EUR
150.083	75 x 12	58.00
150.084	100 x 12	65.00

C02.324.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Wooden cases for calipers

Wooden cases of high quality with foam inlay for calipers.



836.416

Item No.	Inside dimensions l x w x h/mm	Price EUR
836.455	250 x 90 x 20	8.70
836.437	315 x 145 x 20	10.40
836.416	435 x 175 x 20	18.10
836.406	610 x 180 x 20	30.50
836.400	690 x 200 x 20	53.00
836.349	690 x 250 x 25	54.00
836.387	790 x 200 x 25	50.00
836.399	1000 x 270 x 25	75.00
841.305	1100 x 480 x 25	86.00

Schut

C02.357.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Caliper holder

Plastic holder for calipers (analog and digital; regular shaped) of 150 mm.

- For regular shaped calipers (analog and digital).
- Delivery including mounting set (belt clip and mounting clip).
- Rotatable 360°.





PRICE

Item No.	For meas. range/mm	Price EUR
360.000	150	14.00

Cases for calipers

- For regular shaped vernier calipers.
- For regular shaped calipers (analog, digital and dial type) (only 910.108 - 910.110).



909.495



910.108

PRICE

Item No.	For meas. range/mm	Price EUR
Plastic cases:		
910.108	150	6.20
910.109	200	9.40
910.110	300	14.00
Soft cases made of synthetic leather:		
909.494	100	3.40
909.495	150	4.30
909.496	160	4.60
909.497	200	6.90
909.498	300	9.40

Digital protractor

Compact digital protractor to attach to a caliper or height gauge.

- Measuring range: 180°.
- Resolution: 0.01° or 1'.
- Accuracy: ±5'.
- Digimatic data output.
- On/off switch.
- Automatic switch-off (adjustable).
- Preset or hold function.
- Reset.
- Reversible measuring direction.
- Weight: 160 g.
- Delivery in a wooden case including assembly key, mounting bracket (clamping shaft 9 x 9 mm) and clamping screw for height gauge.
- Power supply: 2 batteries type AAA.



Item No.	Description	Price EUR
855.803	Digital protractor	683.00
Options:		
497.914	Spare battery (2 needed)	0.80
905.338	Digimatic cable, 1 m	36.00
905.409	Digimatic cable, 2 m	43.00

C02.355.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Measuring instruments set

For specifications see relevant pages elsewhere in this catalog.

- Digital caliper 906.838: measuring range 0 - 150 mm, resolution 0.01 mm.
- Digital micrometer 906.862: measuring range 0 - 25 mm, resolution 0.001 mm, with tolerance indication.
- Bevelled edge square 907.252: dimensions 100 x 70 mm, DIN 875/00.
- Delivery in a plastic carrying case.



PRICE

Item No.	Description	Price EUR
910.338	Meas. instruments set	130.00

Measuring instruments set

For specifications see relevant pages elsewhere in this catalog.

- Caliper 909.521: measuring range 0 - 150 mm, vernier 0.05 mm.
- Micrometer 906.000: measuring range 0 - 25 mm, graduation 0.01 mm.
- Bevelled edge square 907.252: dimensions 100 x 70 mm, DIN 875/00.
- Ruler 835.421: measuring range 0 - 150 mm, graduation 0.5 mm.
- Delivery in a plastic case.

PRICE



Item No.	Description	Price EUR
910.339	Meas. instruments set	68.00

Measuring instruments set

- Caliper: measuring range 0 - 150 mm, vernier 0.02 mm.
- Micrometer: measuring range 0 - 25 mm, graduation 0.01 mm.
- Bevelled edge square: dimensions 100 x 70 mm.
- Ruler: measuring range 0 - 150 mm, 0 - 50 mm: graduation 0.5 mm.
- Delivery in a plastic case.

Schut PRICE



Item No.	Description	Price EUR
906.176	Meas. instruments set	70.00

C02.340.EN.20230516

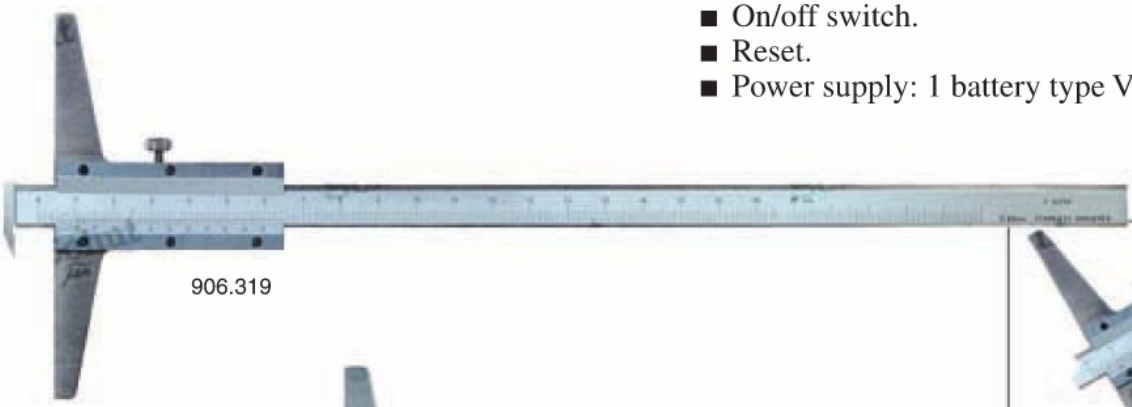
© 2023, Schut Geometrische Meettechniek bv

Depth calipers

- Measuring range: 0 - 500 mm.
- Analog: vernier 0.02 mm, digital: resolution 0.01 mm.
- With or without hook (8 x 3 mm, *l* x *w*).
- Locking screw.

Analog
- Stainless steel construction.
- Matt chrome-plated beam and vernier.

Digital
- mm/inch conversion.
- On/off switch.
- Reset.
- Power supply: 1 battery type V357.


906.319


906.313



906.309



907.886

Schut

Analog

Item No.	Measuring range/mm	Base length/mm	Price EUR
Without hook:			
906.314	0 - 150	100	36.80
906.313	0 - 200	100	36.80
906.315	0 - 300	100	43.00
906.317	0 - 500	100	61.00
With hook:			
906.318	0 - 150	100	42.00
906.319	0 - 200	100	42.00
906.321	0 - 300	100	45.00
906.322	0 - 500	100	69.00

Digital

PRICE

Item No.	Measuring range/mm	Base length/mm	Price EUR
Without hook:			
907.886	0 - 150	100	47.00
907.887	0 - 200	100	47.00
907.888	0 - 300	100	69.00
907.898	0 - 500	100	124.00
With hook:			
906.309	0 - 150	100	50.00
906.310	0 - 200	100	50.00
906.311	0 - 300	100	72.00
906.312	0 - 500	100	123.00
Option:			
836.535	Spare battery		0.80

C02.227.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Depth calipers

Depth calipers with or without hook.

- Measuring range: 0 - 300 mm.
- Vernier: 0.05 mm.
- Accuracy: ±0.03 mm.
- Locking screw.
- Matt chrome-plated beam and vernier.
- Monoblock.
- Stainless steel construction.



909.910

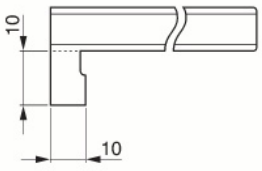


909.916

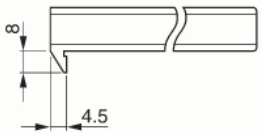


909.922





Type I



Type II

Item No.	Measuring range/mm	Base length/mm	Price EUR
Without hook:			
909.910	0 - 150	100	34.50
909.911	0 - 200	100	47.00
909.912	0 - 300	100	61.00
With hook (type I):			
909.916	0 - 150	100	53.00
909.917	0 - 200	100	67.00
909.918	0 - 300	100	102.00
With hook (type II):			
909.922	0 - 150	100	53.00
909.923	0 - 200	100	67.00
909.924	0 - 300	100	102.00

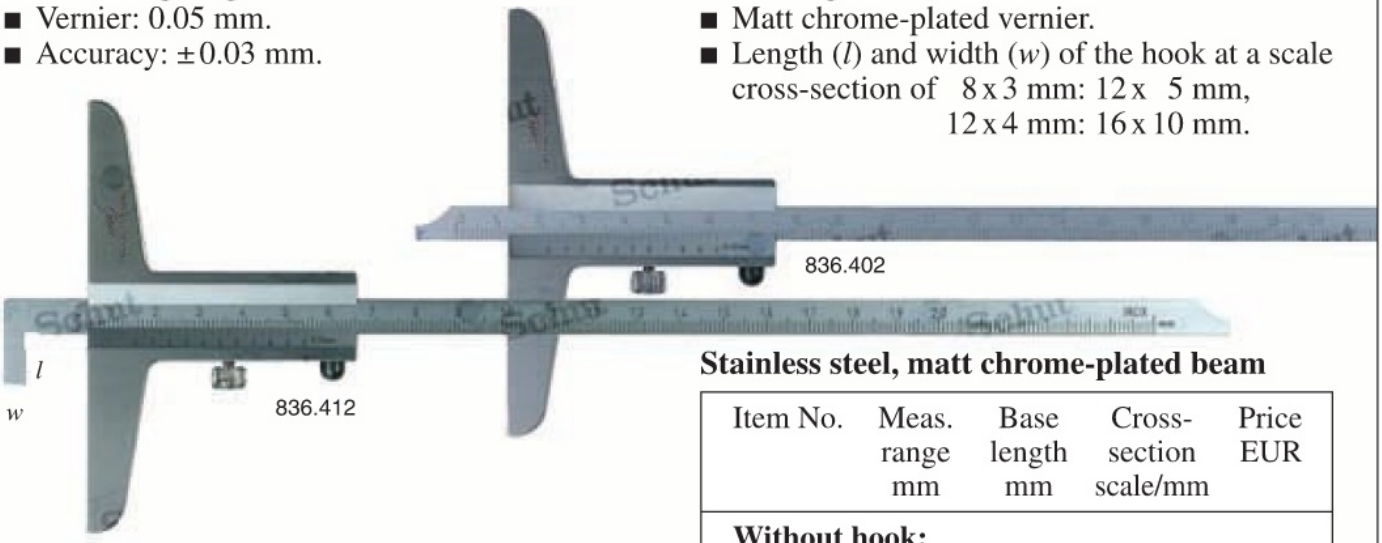
C02.326.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

HELIOS-PREISSER depth calipers

Depth calipers with or without hook. The models with a hook have graduations on both sides of the scale, allowing reverse usage (i.e. without hook) of the instrument.

- Measuring range: 0 - 1000 mm.
- Vernier: 0.05 mm.
- Accuracy: ±0.03 mm.
- Locking screw.
- Matt chrome-plated vernier.
- Length (*l*) and width (*w*) of the hook at a scale cross-section of 8 x 3 mm: 12 x 5 mm, 12 x 4 mm: 16 x 10 mm.



Stainless steel

Item No.	Meas. range mm	Base length mm	Cross-section scale/mm	Price EUR
Without hook:				
836.622	0 - 200	100	8 x 3	74.00
836.621	0 - 500	150	12 x 4	139.00
With hook:				
836.628	0 - 500	150	12 x 4	167.00

Stainless steel, matt chrome-plated beam

Item No.	Meas. range mm	Base length mm	Cross-section scale/mm	Price EUR
Without hook:				
836.402	0 - 200	100	8 x 3	93.00
836.403	0 - 300	150	12 x 4	112.00
836.404	0 - 500	150	12 x 4	172.00
836.405	0 - 500	250	20 x 5	262.00
836.407	0 - 800	250	20 x 5	437.00
836.410	0 - 1000	250	20 x 5	618.00
With hook:				
836.412	0 - 200	100	8 x 3	106.00
836.413	0 - 300	150	12 x 4	130.00
836.414	0 - 500	150	12 x 4	208.00

Mitutoyo depth calipers

Depth calipers also available with hook or with fine adjustment.

- Measuring range: 0 - 300 mm.
- Vernier: 0.05 mm or 0.02 mm.
- Locking screw.
- Length measuring base: 100 mm.
- Stainless steel construction.



Item No.	Meas. range mm	Vernier mm	Price EUR
527.201	0 - 150	0.05	136.00
527.202	0 - 200	0.05	148.00
527.203	0 - 300	0.05	199.00
527.121	0 - 150	0.02	142.00
527.122	0 - 200	0.02	157.00
527.123	0 - 300	0.02	200.00
Options:			
900.370	Measuring base 180 mm		67.00
900.371	Measuring base 260 mm		91.00
900.372	Measuring base 320 mm		104.00

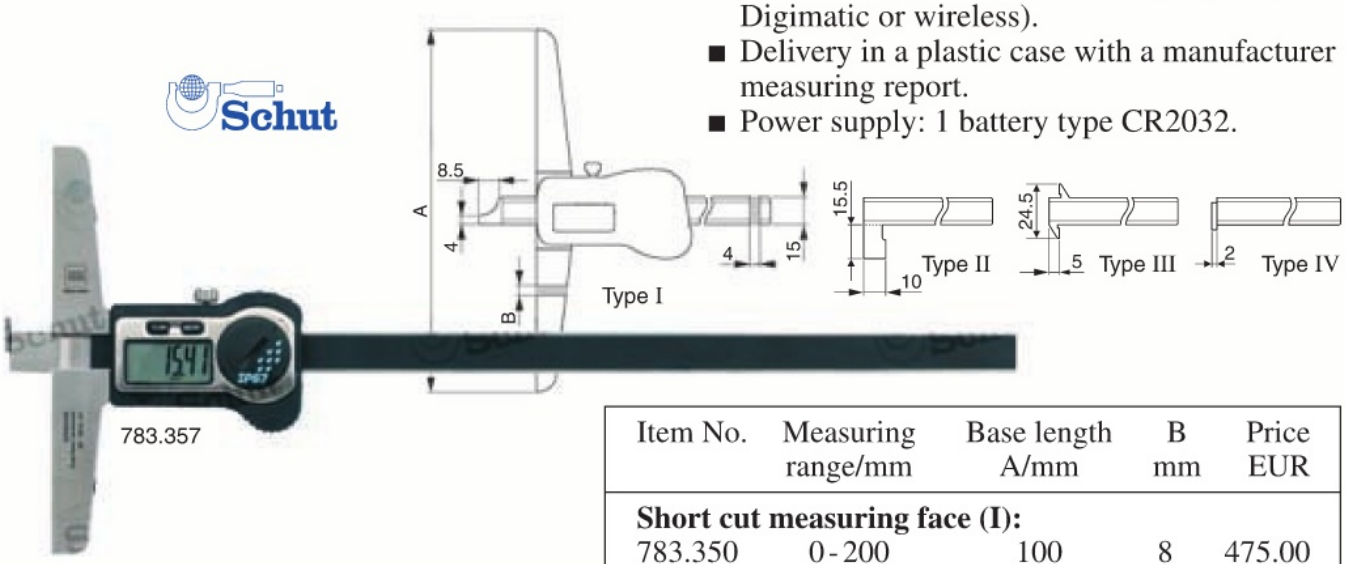
C02.364.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

TESA TWIN-Cal absolute digital depth calipers IP67

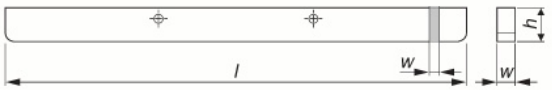
New generation IP67 depth calipers, TESA TWIN-Cal, with an absolute measuring system and a "soft touch" grip. These depth calipers have a unique connectivity concept TESA LINK. All TWIN-Cal depth calipers are equipped with a data output. Connect the TESA Link Connector to the TWIN-Cal for "plug and play" (wireless) data transfer. Waterproof, hardened stainless steel depth calipers, in different versions of the beam's measuring face. Suited for use with removable bridges. There is also a small depth gauge available.

- Measuring range: 0 - 500 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- Digit height: 11 mm.
- Automatic switch-off.
- Reset.
- Max. measuring speed: approx. 2.5 m/s.
- Locking screw.
- Protection: IP67 (also in combination with data output cable).
- ISO 13385-2.
- Standard supplied with data output (USB, Digimatic or wireless).
- Delivery in a plastic case with a manufacturer measuring report.
- Power supply: 1 battery type CR2032.



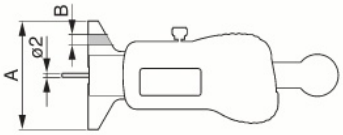
Removable bridges*

Item No.	Meas. face l x w/mm	Height h/mm	Price EUR
782.886	200 x 8	$10^{\pm 0.005}$	209.00
782.949	300 x 8	$16^{\pm 0.005}$	226.00
782.887	400 x 8	$16^{\pm 0.005}$	234.00



* Not suited for use with 783.360.





Item No.	Measuring range/mm	Base length A/mm	B mm	Price EUR
Short cut measuring face (I):				
783.350	0 - 200	100	8	475.00
783.352	0 - 300	150	8	524.00
783.353	0 - 500	150	8	648.00
Measuring face with one hook (II):				
783.354	0 - 300	150	8	612.00
783.355	0 - 500	150	8	721.00
Measuring face with two hooks (III):				
783.356	0 - 300	150	8	680.00
Measuring face with rotary stop (IV):				
783.357	0 - 250	100	8.5	540.00
783.358	0 - 350	100	8.5	599.00
783.359	0 - 500	150	8.5	755.00
Small depth gauge with steel depth rod:				
783.360	0 - 25	50	7.4	393.00

Options:		
495.157	Spare battery	0.40
783.301[1]	TESA Link Connector USB	115.00
783.302[1]	TESA Link Connector Digimatic	249.00
783.555[1]	TESA Link Connector Bluetooth	50.00

[1] The TESA Link Connector will replace the battery cover.

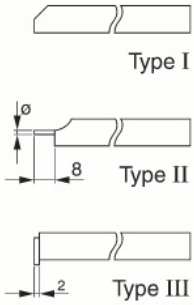
C02.315.EN.20230516

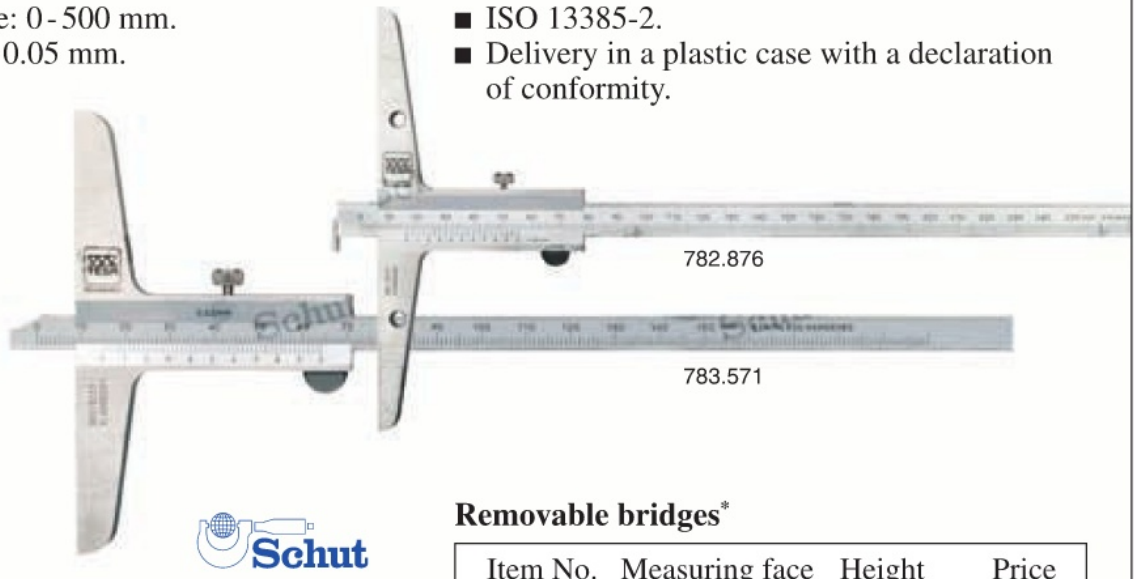
© 2023, Schut Geometrische Meettechniek bv

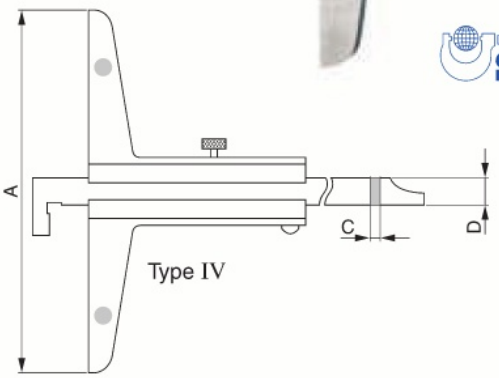
TESA depth calipers

Hardened stainless steel depth calipers with a matt chrome-plated beam and vernier. Reduced scale section for easy access to difficult measuring points. The main scale is slightly set back for wear protection. Suited for use with removable bridges.

- Measuring range: 0 - 500 mm.
- Vernier: 0.02 or 0.05 mm.
- Locking screw.
- ISO 13385-2.
- Delivery in a plastic case with a declaration of conformity.







Removable bridges*

Item No.	Measuring face *l* x *w*/mm	Height *h*/mm	Price EUR
783.627	180 x 8	17	59.00
783.628	260 x 8	17	79.00
783.629	320 x 8	17	90.00



* For depth calipers from 300 mm.

Measuring range/mm	Base length A/mm	Dimensions/mm C	D	ø	**Vernier 0.05 mm** Item No.	Price EUR	**Vernier 0.02 mm** Item No.	Price EUR
Short cut measuring face (I):								
0 - 150	100	3	8	–	782.872	85.00	782.300	85.00
0 - 200	100	3	8	–	782.075	95.00	783.571	95.00
0 - 300	150	4	12	–	782.076	106.00	783.572	106.00
0 - 500	150	4	12	–	782.873	134.00	783.612	134.00
Steel tip (II):								
0 - 150	100	3	8	1.5	782.304	104.00	782.870	104.00
0 - 200	100	3	8	1.5	782.079	116.00	783.573	116.00
0 - 250	100	3	8	1.5	–		782.305	105.00
0 - 300	150	4	12	2	782.161	126.00	783.574	126.00
Measuring face with rotary stop (III):								
0 - 150	150	4	12	–	782.858	128.00	782.306	128.00
0 - 250	150	4	12	–	782.876	160.00	782.307	160.00
0 - 500	150	4	12	–	782.877	201.00	782.308	201.00
Convertible models with a hook and a short cut measuring face (IV):								
0 - 150	100	3	8	–	782.879	121.00	782.878	121.00
0 - 200	100	3	8	–	782.162	132.00	783.575	132.00
0 - 300	150	4	10	–	782.883	143.00	782.882	143.00
0 - 500	150	4	10	–	782.885	166.00	782.884	166.00

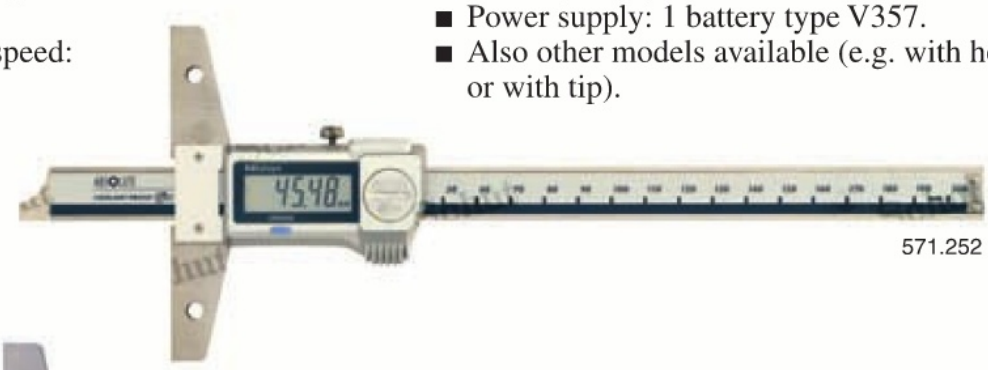
C02.316.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo Absolute Digimatic depth calipers

Mitutoyo depth calipers with the Absolute measuring system. For use in workshop conditions, Mitutoyo has also developed *Coolant Proof* models with high protection degree (IP67); these are resistant to oil and coolants, and even last temporary immersion.

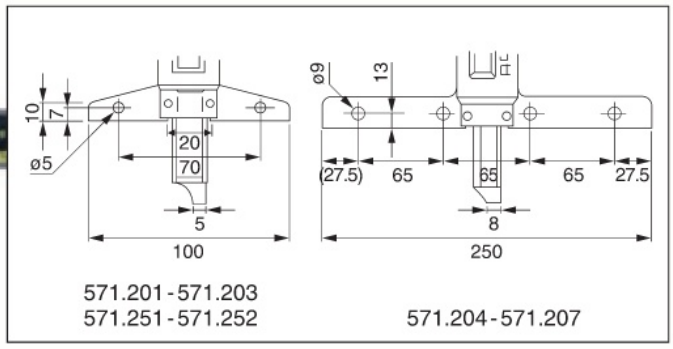
- Measuring range: 0 - 1000 mm.
- Resolution: 0.01 mm.
- ABS/INC switchable (except 571.251 - 253).
- Digimatic data output.
- Reset.
- Max. measuring speed: unlimited.
- Beam: 16 x 3.5 mm.
- Protection: IP67 (only *Coolant Proof* models).
- Conforms to factory standard.
- Delivery in a plastic case.
- Power supply: 1 battery type V357.
- Also other models available (e.g. with hook or with tip).



571.252



571.201



571.201 - 571.203
571.251 - 571.252

571.204 - 571.207

Data cables Digimatic, USB Input Tool Direct, U-WAVE available on request.

Item No.	Measuring range/mm	Base length/mm	Accuracy/mm	Price EUR
571.201	0 - 150	100	±0.02	394.00
571.202	0 - 200	100	±0.02	476.00
571.203	0 - 300	100	±0.03	486.00
571.204	0 - 450	250	±0.05	981.00
571.205	0 - 600	250	±0.05	1,042.00
571.206	0 - 750	250	±0.06	1,124.00
571.207	0 - 1000	250	±0.07	1,239.00
Protection IP67 (*Coolant Proof*):				
571.251	0 - 150	100	±0.02	447.00
571.252	0 - 200	100	±0.02	519.00
571.253	0 - 300	100	±0.03	580.00
Options:				
836.535	Spare battery			0.80
900.370	Removable bridge, length 180 mm (for depth calipers up to 300 mm)			67.00
900.371	Removable bridge, length 260 mm (for depth calipers up to 300 mm)			91.00
900.372	Removable bridge, length 320 mm (for depth calipers up to 300 mm)			104.00

C02.229.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Depth calipers

Waterproof, hardened stainless steel depth calipers, in different versions of the beam's measuring face. Suited for use with removable bridges.

- Measuring range: 0 - 800 mm.
- Resolution: 0.01 mm.
- Accuracy: ±0.03 mm or ±0.04 mm.
- Proximity data output.
- On/off switch.
- Automatic switch-off.
- Reset/preset.
- Hold function.
- Locking screw.
- Protection: IP67.
- Standard supplied with insert 839.077.
- Conforms to factory standard.
- Delivery in a wooden case with a manufacturer measuring report.
- Power supply: 1 battery type CR2032.





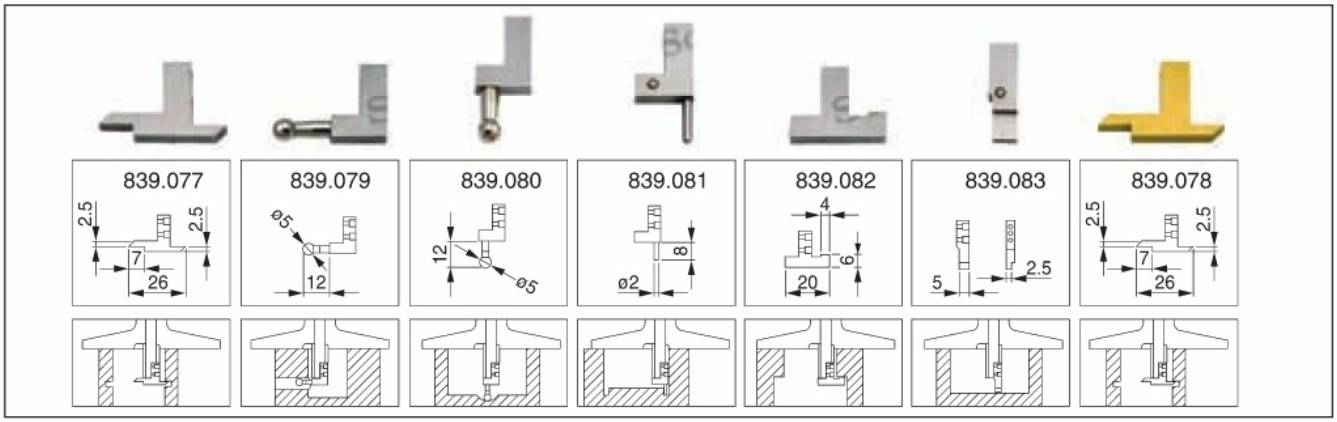
Item No.	Measuring range/mm	Accuracy mm	Price EUR
839.069	0 - 300	±0.03	789.00
839.070	0 - 400	±0.03	919.00
839.071	0 - 500	±0.03	1,079.00
839.072	0 - 600	±0.03	1,199.00
839.073	0 - 800	±0.04	1,798.00
Option:			
495.157	Spare battery		0.40
840.666	Proximity USB cable (2 m)		235.00

Removable bridges

Item No.	Length/mm	Price EUR
839.074	400	450.00
839.075	500	519.00
839.076	600	679.00

Inserts

Item No.	Description	Price EUR
839.077	Insert	138.00
839.079	Insert	138.00
839.080	Insert	138.00
839.081	Insert	138.00
839.082	Insert	138.00
839.083	Insert	138.00
839.078	Insert	180.00



C02.328.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital lightweight depth calipers

Universal lightweight aluminum depth calipers with two interchangeable measuring inserts set at 90° and 3 measuring bases. All inserts with M2.5 thread can be used with these calipers. Please see the dial indicator accessories section for these inserts. Excellent sliding properties due to double prismatic joint.

- Measuring range: 0 - 800 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Length included measuring bases: 150, 300 and 450 mm.
- Interchangeable measuring inserts: 2 measuring inserts included (ball attachments ø3.2 mm, l=6 mm and ø5 mm, l=12 mm).
- Locking screw.
- Delivery in a plastic case with a manufacturer measuring report.
- Power supply: 1 battery type V357.

Item No.	Measuring range/mm	Accuracy mm	Weight kg	Price EUR
853.209	0 - 300	0.04	0.4	324.00
853.210	0 - 500	0.05	0.5	440.00
853.211	0 - 800	0.06	0.8	556.00
Options:				
836.535	Spare battery			0.80



Digital lightweight depth calipers with with round depth rod

Universal lightweight aluminum depth calipers with round depth rod and M2.5 threaded hole for interchangeable inserts. Inserts with M2.5 thread can be used with these calipers. Please see the dial indicator accessories section for these inserts. Excellent sliding properties due to double prismatic joint.

- Measuring range: 0 - 500 mm.
- Diameter depth rod:
  Measuring range 0 - 300 mm ø4 mm
  Measuring range 500 mm ø6 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Length included measuring base: 350 mm.
- Interchangeable measuring inserts: 2 measuring inserts included (ball attachment ø3.2 mm, l=6 mm and disc attachment ø10 mm, d=2 mm at 0 - 300 mm or disc attachment ø20 mm, d=2 mm at 500 mm).
- Locking screw.
- Delivery in a plastic case with a manufacturer measuring report.
- Power supply: 1 battery type V357.



Item No.	Measuring range/mm	Accuracy mm	Weight kg	Price EUR
853.212	0 - 200	0.03	0.3	337.00
853.213	0 - 300	0.04	0.4	450.00
853.214	0 - 500	0.05	0.6	562.00
Options:				
853.222	Measuring base 550 mm			227.00
853.223	Measuring base 750 mm			334.00
853.224	Measuring base 950 mm			489.00
836.535	Spare battery			0.80

C02.339.

© 2023, Schut Geometrische Meettechniek bv

Digital depth calipers with with round depth rod

Universal depth calipers with round depth rod with M2.5 threaded hole for exchangeable inserts. Inserts with M2.5 thread can be used with these calipers. Please see the dial indicator accessories section for these inserts.

- Measuring range: 0 - 150 mm.
- Diameter depth rod: 4 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Large LCD display.
- Locking screw.
- Length measuring base: 85 mm.
- Interchangeable measuring inserts: disc attachment included ø 8 mm, $d = 1$ mm.
- Power supply: 1 battery type V357.



910.355

PRICE

Item No.	Measuring range/mm	Price EUR
910.355	0 - 100	148.00
910.356	0 - 150	184.00
Option:		
836.535	Spare battery	0.80

Digital depth gauge

- Measuring range: 0 - 21.5 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Locking screw.
- Measuring face: 45 x 6 mm.
- Measuring pin: 6 x 2.3 mm, taper to 4 x 2.3 mm.
- Power supply: 1 battery type V357.



PRICE

Item No.	Measuring range/mm	Price EUR
907.861	0 - 21.5	35.20
Option:		
836.535	Spare battery	0.80

Digital depth gauge

Digital tire tread depth gauge made of high quality plastic.

- Measuring range: 0 - 25 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Large LCD display.
- Measuring face: 60 x 5.7 mm.
- Measuring pin: ø 4 mm.
- Measuring tip: 2.6 x 0.9 mm.
- Power supply: 1 battery type V357.



PRICE

Item No.	Measuring range/mm	Price EUR
910.357	0 - 25	14.00
Option:		
836.535	Spare battery	0.80

C02.341.EN.20230516

Depth caliper for keyway depths

- Measuring range: keyway depths 0 - 25 mm.
- Application range: cylinders ø5 - 200 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Large LCD display.
- Locking screw.
- Measuring pin: ø2 mm.
- Power supply: 1 battery type V357.



PRICE

Item No.	Application range/mm	Price EUR
910.258	ø5 - 200	175.00
Option:		
836.535	Spare battery	0.80

Depth calipers for keyway depths

- Measuring range: keyway depths 0 - 60 mm.
- Application range: cylinders ø5 - 200 mm.
- Vernier: 0.05 mm.
- Stainless steel construction.



PRICE

Item No.	Application range/mm	Price EUR
907.192	ø5 - 80	113.00
907.193	ø6 - 120	137.00
907.194	ø7 - 160	159.00
907.195	ø8 - 200	184.00

Digital depth gauge

- Measuring range: 0 - 80 mm.
- Resolution: 0.05 mm.
- mm/inch conversion.
- On/off switch.
- Detachable measuring pin ø4.3 mm, length 50 mm.
- Power supply: 1 battery type CR2032.



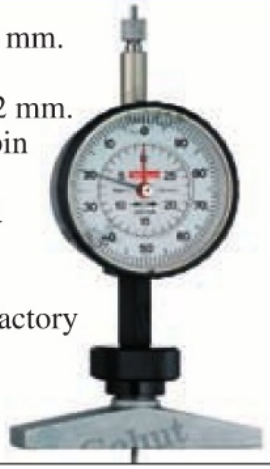
Schut

PRICE

Item No.	Measuring range/mm	Price EUR
906.428	0 - 80	31.60
Option:		
495.157	Spare battery	0.40

Käfer depth dial indicators

- Measuring range: 0 - 30 mm.
- Graduation: 0.01 mm.
- Measuring pin shaft: ø2 mm.
- Measuring depth with pin 852.385: 200 mm.
- Excl. measuring pin and measuring base.
- Accuracy according DIN 878 (852.383) or factory standard (852.384).



Item No.	Measuring range/mm	Price EUR
852.383	0 - 10	156.00
852.384	0 - 30	274.00
Options:		
852.385	Measuring pin ø2 mm, 340 mm	10.80
907.153	Meas. base 63 x 17 mm	19.80
907.165	Meas. base 101.5 x 17 mm*	20.80

* Larger sizes available on request.

C02.232.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Micrometers / Micrometer heads



C03.001.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital micrometers

Rugged digital micrometers with simple functions and an excellent price-performance ratio.

- Measuring range: 0 - 200 mm.
- Resolution: 0.001 mm.
- Automatic switch-off.
- Reset/preset.
- Tungsten carbide measuring faces: ø6.5 mm.
- From measuring range 25 - 50 mm including setting gauge.
- Power supply: 1 battery type V357.



908.758

Schut



908.769

PRICE

Item No.	Measuring range/mm	Accuracy mm	Price EUR
Not switchable:			
908.752	50 - 75	±0.005	54.00
908.753	75 - 100	±0.005	59.00
908.755	125 - 150	±0.006	72.00
Switchable mm/inch and ABS/INC:			
908.758	0 - 25	±0.004	65.00
908.759	25 - 50	±0.004	77.00
908.760	50 - 75	±0.005	84.00
908.761	75 - 100	±0.005	92.00
908.762	100 - 125	±0.006	101.00
908.763	125 - 150	±0.006	111.00
908.764	150 - 175	±0.007	121.00
908.765	175 - 200	±0.007	132.00

Sets

Item No.	Measuring range/mm	Pieces	Price EUR
Switchable mm/inch and ABS/INC:			
908.769	0 - 75	3	225.00
908.770	0 - 100	4	317.00
908.771	0 - 150	6	528.00

Option

Item No.	Description	Price EUR
836.535	Spare battery	0.80

C03.305.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital micrometers

Rugged digital micrometers with simple functions and an excellent price-performance ratio.

- Measuring range: 0 - 150 mm.
- Resolution: 0.001 mm.
- mm/inch conversion.
- ABS/INC switchable.
- Automatic switch-off.
- Reset/preset.
- Tungsten carbide measuring faces: ø6.5 mm.
- From measuring range 25 - 50 mm including setting gauge.
- Delivery in a plastic case with a manufacturer measuring report.
- Power supply: 1 battery type CR2032.



909.982

Item No.	Measuring range/mm	Accuracy mm	Price EUR
909.982	0 - 25	±0.003	51.00
909.983	25 - 50	±0.003	65.00
909.984	50 - 75	±0.004	75.00
909.985	75 - 100	±0.004	87.00
909.986	100 - 125	±0.005	111.00
909.987	125 - 150	±0.005	130.00
Option:			
495.157	Spare battery		0.40

Digital micrometers with double display

This patented micrometer distinguishes itself with its two large displays on both sides of the instrument, which can also display the read-out upside-down. Therefore the measuring value can always be presented upright, which enables ergonomic read-out at all times. Add to this its measuring range of 30 mm, the tungsten carbide measuring faces and you have a micrometer with a great price-performance ratio.

- Measuring range: 0 - 205 mm.
- Resolution: 0.001 mm.
- mm/inch conversion.
- ABS/INC switchable.
- Double LCD display.
- Second display can be switched on/off separately.
- Automatic switch-off.
- Reset/preset.
- Tungsten carbide measuring faces: ø6.5 mm.
- From measuring range 25 - 55 mm including setting gauge.
- Delivery in a plastic case.
- Power supply: 1 battery type CR2032.



907.682



Measuring value 'upside-down'.



Second display: also for left-handed use.

Item No.	Measuring range/mm	Accuracy mm	Price EUR
907.682	0 - 30	±0.004	152.00
907.683	25 - 55	±0.004	188.00
907.684	50 - 80	±0.005	215.00
907.685	75 - 105	±0.005	242.00
907.686	100 - 130	±0.006	270.00
907.687	125 - 155	±0.006	297.00
907.688	150 - 180	±0.007	325.00
907.689	175 - 205	±0.007	352.00
Option:			
495.157	Spare battery		0.40

C03.301.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital micrometers with tolerance indication

These absolute digital micrometers are provided with both a tolerance and a hold function, as well as a large display.

- Measuring range: 0 - 75 mm.
- Resolution: 0.001 mm.
- mm/inch conversion.
- ABS/INC switchable.
- Digit height: 9 mm.
- Automatic switch-off.
- Reset/preset.
- Hold function.
- Adjustable tolerance limits.
- Tungsten carbide measuring faces: ø6.5 mm.
- Power supply: 1 battery type V357.



907.570

Schut

PRICE

Item No.	Measuring range/mm	Accuracy mm	Price EUR
907.570	0 - 25	±0.004	101.00
907.571	25 - 50	±0.004	111.00
907.572	50 - 75	±0.005	153.00
Option:			
836.535	Spare battery		0.80

Micrometers with counter

These solid micrometers have a counter with a resolution of 0.01 mm for an error free read-out of the measuring value, and a very favourable price-performance ratio.

- Measuring range: 0 - 200 mm.
- Resolution: 0.01 mm.
- Numerical counter adjustable.
- Tungsten carbide measuring faces: ø6.5 mm.
- Delivery with adjustment tool.
- From measuring range 25 - 50 mm including setting gauge.



906.556

PRICE

Sets (delivered incl. setting gauges)

Item No.	Measuring range/mm	Pieces	Price EUR
906.564	0 - 75	3	195.00
906.565	0 - 100	4	274.00
906.566	0 - 150	6	477.00

Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.556	0 - 25	±0.01	58.00
906.557	25 - 50	±0.01	65.00
906.558	50 - 75	±0.01	72.00
906.559	75 - 100	±0.01	80.00
906.560	100 - 125	±0.02	94.00
906.561	125 - 150	±0.02	109.00
906.562	150 - 175	±0.02	130.00
906.563	175 - 200	±0.02	146.00

C03.309.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo Digimatic micrometer

Digital micrometer with a very compact design.

- Measuring range: 0 - 25 mm.
- Resolution: 0.001 mm.
- Reset.
- Measuring force: 5 - 10 N.
- Spindle: ø6.35 mm.
- Ground and lapped tungsten carbide measuring faces.
- Varnished frame.
- Weight: 275 g.
- Delivery in a plastic case with a manufacturer measuring report.
- Power supply: 1 battery type V357.



Item No.	Measuring range/mm	Accuracy mm	Price EUR
293.821	0 - 25	±0.002	184.00
Option:			
836.535	Spare battery		0.80

Mitutoyo Absolute Digimatic Quick micrometers

Very fast adjustable digital micrometer (10 mm/rotation!) with the absolute system and a non-rotating spindle. It works according to the Abbe principle and has an almost unlimited measuring speed. All this makes the Quick Micrometer the most accurate 'quick meter' of its kind.

The model with adjustable measuring force is for measurements of small, vulnerable and deformable objects. Should be used in horizontal position for optimal accuracy of the measuring force.

- Measuring range: 0 - 30 mm.
- Resolution: 0.001 mm.
- Digimatic data output.
- On/off switch.
- Reset/preset.
- Hold function.
- Max. measuring speed: unlimited.
- 1 revolution of the thimble = 10 mm.
- Flatness measuring faces: ≤0.3 µm.
- Parallelism measuring faces: ≤2.0 µm.
- Non-rotating spindle.
- Ground and lapped tungsten carbide measuring faces: ø6.35 mm.
- Varnished frame.
- Protection: 293.666: IP65.
- Conforms to factory standard.
- Delivery in a plastic case.
- Power supply: 1 battery type V357.
- Also larger sizes available.



293.666

Item No.	Measuring range/mm	Accuracy mm	Measuring force/N	Price EUR
293.666	0 - 30	±0.002	5 - 12	571.00
With adjustable measuring force:				
227.205	0 - 10	±0.002	2 - 10	1,239.00
227.202	0 - 15	±0.002	2 - 10	982.00
227.201	0 - 15	±0.002	0.5 - 2.5	1,190.00
Option:				
836.535	Spare battery			0.80

Data cables Digimatic, USB Input Tool Direct, U-WAVE available on request.


Setting measuring force (227.201/202/205)

C03.279.EN.20230516

Absolute digital micrometers with tolerance indication IP54

Digital micrometers with a function to set tolerance limits with clear optical Go (NoGo) reading.

- Measuring range: 0 - 100 mm.
- Resolution: 0.001 mm.
- mm/inch conversion.
- ABS/INC switchable.
- With data output.
- Adjustable tolerance limits.
- **Tolerance display** by means of illuminated green LED at GO value.
- On/off switch.
- Automatic switch-off.
- Reset.
- Tungsten carbide measuring faces: ø6.5 mm.
- Protection: IP54.
- Delivery in a plastic case with a manufacturer measuring report.
- Power supply: 1 battery type CR2032.

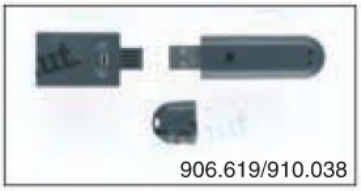


906.862

USB interface:
- For data transfer to PC (e.g. Excel, Word).
- Operating system: Windows and other.
- PC connection: USB.
- No software or driver to install.
- Foot switch (optional).


906.618


909.687


906.619/910.038

PRICE

Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.862	0 - 25	±0.003	63.00
906.863	25 - 50	±0.003	75.00
906.864	50 - 75	±0.004	88.00
906.865	75 - 100	±0.004	101.00

Options:		
495.157	Spare battery	0.40
906.618[1,2]	USB interface	77.00
909.687	Footswitch for USB interface	18.50
910.038	Wireless USB receiver	50.00
906.619[2]	Wireless transmitter	52.00

[1] Standard configured for PC with English (US) keyboard. Also available on request for alternative keyboards.
[2] With micro-USB connection.

C03.323.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital micrometers IP54

- Measuring range: 0 - 150 mm.
- Resolution: 0.001 mm.
- mm/inch conversion.
- Automatic switch-off.
- Reset.
- Tungsten carbide measuring faces: ø6.5 mm.
- Protection: IP54.
- From measuring range 25 - 50 mm including setting gauge.
- Delivery in a plastic case.
- Power supply: 1 battery type V357.



910.041

PRICE

Item No.	Measuring range/mm	Accuracy mm	Price EUR
910.041	0 - 25	±0.004	71.00
910.042	25 - 50	±0.004	85.00
910.043	50 - 75	±0.005	96.00
910.044	75 - 100	±0.005	106.00
910.045	100 - 125	±0.006	124.00
910.046	125 - 150	±0.006	135.00
Option:			
836.535	Spare battery		0.80

Sets

Item No.	Measuring range/mm	Pieces	Price EUR
910.053	0 - 75	3	251.00
910.055	0 - 150	6	617.00

Digital micrometers IP65

These IP65 protected micrometers are especially suitable for use in production environments.

- Measuring range: 0 - 100 mm.
- Resolution: 0.001 mm.
- mm/inch conversion.
- ABS/INC switchable.
- On/off switch.
- Automatic switch-off.
- Reset.
- Tungsten carbide measuring faces: ø6.5 mm.
- Protection: IP65.
- From measuring range 25 - 50 mm including setting gauge.
- Delivery in a plastic case with a manufacturer measuring report and ball attachment.
- Power supply: 1 battery type CR2032.



909.988



PRICE

Item No.	Measuring range/mm	Accuracy mm	Price EUR
909.988	0 - 25	±0.003	86.00
909.989	25 - 50	±0.003	105.00
909.990	50 - 75	±0.004	119.00
909.991	75 - 100	±0.004	136.00
Option:			
495.157	Spare battery		0.40

C03.322.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital fast adjustable external measuring instruments IP65

These digital external measuring instruments have an IP65 classification and are therefore not only resistant to dust, but can also withstand water jets. The non-rotating spindle is solely lever operated and fast adjustable.

- Measuring range: 0 - 100 mm.
- Resolution: 0.001 mm.
- mm/inch conversion.
- ABS/INC switchable.
- Digimatic data output.
- On/off switch.
- Reset.
- Non-rotating spindle.
- Tungsten carbide measuring faces: ø6.5 mm.
- Protection: IP65.
- From measuring range 25 - 50 mm including setting gauge.
- Delivery in a plastic case with a manufacturer measuring report and ball attachment.
- Power supply: 1 battery type CR2032.



909.994

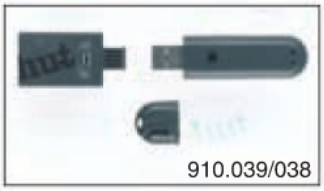
USB interface:
- For data transfer to PC (e.g. Excel, Word).
- Operating system: Windows and other.
- PC connection: USB.
- No software or driver to install.
- Foot switch (optional).






909.686


909.687


910.039/038

Item No.	Measuring range/mm	Accuracy mm	Price EUR
909.994	0 - 25	±0.003	168.00
909.995	25 - 50	±0.003	192.00
909.996	50 - 75	±0.004	215.00
909.997	75 - 100	±0.004	238.00
With Bluetooth:			
910.075	0 - 25	±0.003	169.00
Options:			
495.157	Spare battery		0.40
909.686[1,2]	USB interface		109.00
909.687	Footswitch for USB interface		18.50
910.038	Wireless USB receiver		50.00
910.039[2]	Wireless transmitter		50.00

[1] Standard configured for PC with English (US) keyboard. Also available on request for alternative keyboards.
[2] For instruments with a Digimatic data output.

C03.319.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital micrometers IP65

These digital micrometers have an IP65 classification and are therefore not only resistant to dust but can also withstand water jets. Also available as fast adjustable micrometers with a pitch of 2 mm.

- Measuring range: 0 - 300 mm.
- Resolution: 0.001 mm.
- mm/inch conversion.
- ABS/INC switchable.
- With data output.
- On/off switch.
- Automatic switch-off.
- Tungsten carbide measuring faces: ø6.5 mm.
- Protection: IP65.
- From measuring range 25 - 50 mm including setting gauge.
- Delivery in a plastic case or a wooden case.
- Power supply: 1 battery type V357.

Fast adjustable micrometers

- 1 revolution of the thimble = 2 mm.



909.549



909.545

Schut

Item No.	Measuring range/mm	Accuracy mm	Price EUR
909.549	0 - 25	±0.002	78.00
909.550	25 - 50	±0.002	96.00
909.551	50 - 75	±0.003	114.00
909.552	75 - 100	±0.003	132.00
909.556	100 - 125	±0.003	151.00
909.557	125 - 150	±0.003	169.00
909.558	150 - 175	±0.004	187.00
909.559	175 - 200	±0.004	205.00
909.560	200 - 225	±0.004	223.00
909.561	225 - 250	±0.004	241.00
909.562	250 - 275	±0.005	259.00
909.563	275 - 300	±0.005	278.00

Options:

836.535	Spare battery	0.80
910.458	Bluetooth transmitter	75.00

Fast adjustable micrometers

PRICE

Item No.	Measuring range/mm	Accuracy mm	Price EUR
909.545	0 - 25	±0.002	145.00
909.546	25 - 50	±0.002	163.00
909.547	50 - 75	±0.003	181.00
909.548	75 - 100	±0.003	199.00

Sets

Item No.	Measuring range/mm	Pieces	Price EUR
909.577	0 - 75	3	289.00
909.578	0 - 100	4	421.00
909.579	0 - 150	6	740.00

C03.315.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

TESA Micromaster digital *capa μ* micrometers IP54

This line of digital micrometers with the patented *capa μ* measuring system has a very light-weight and ergonomic design and is equipped with a large easy-to-read LCD display with 7 mm large digits. Especially the high protection degree – IP54 against dust and splash water – makes this series of micrometers very suitable for use in workshop conditions. The friction thimble ensures a constant measuring force of approximately 10 N for optimal repeatability. The models with Opto-RS232C data output are suitable for data transfer by means of a cable, or wireless with the TESA Link Connector-Bluetooth and Opto-RS232/TLC adapter.

- Measuring range: 0 - 300 mm.
- Resolution: 0.001 mm.
- mm/inch conversion.
- ABS/INC switchable.
- With or without bidirectional Opto-RS232C data output.
- Automatic switch-off.
- Reset/preset and hold function.
- Locking screw.
- Friction thimble.
- Tungsten carbide measuring faces: ø6.5 mm (from measuring range 100 - 125 mm: ø8 mm).
- Matt chrome-plated frame with insulating grip.
- Protection: IP54. (When using data output: IP40.)
- Delivery in a plastic case or a wooden case with a manufacturer measuring report.
- Power supply: 1 battery type CR2032.









Item No.	Measuring range/mm	Accuracy mm	Price EUR
Without Opto-RS232C data output:			
782.100[1]	0 - 30	±0.004	376.00
782.101	0 - 30	±0.004	388.00
782.102	25 - 50	±0.004	481.00
782.103	50 - 75	±0.005	537.00
782.104	75 - 100	±0.005	599.00
With Opto-RS232C data output:			
782.105	0 - 30	±0.004	418.00
782.106	25 - 50	±0.004	520.00
782.107	50 - 75	±0.005	606.00
782.108	75 - 100	±0.005	671.00
782.115	100 - 125	±0.006	918.00
782.116	125 - 150	±0.006	935.00
782.117	150 - 175	±0.007	966.00
782.118	175 - 200	±0.007	1,073.00
782.119	200 - 225	±0.008	1,150.00
782.122	225 - 250	±0.008	1,158.00
782.123	250 - 275	±0.009	1,166.00
782.124	275 - 300	±0.009	1,177.00
Options:			
495.157	Spare battery		0.40
783.556	TESA Link Connector Adapter Opto-RS232/TLC		174.00
783.555	TESA Link Connector Bluetooth		50.00
781.887	Opto-RS232C cable 9p (2 m)		157.00

[1] Micromaster "Easy": simple model with protection IP40 and without preset function.

C03.303.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo Digimatic and *QuantuMike* micrometers IP65

These digital *Coolant Proof* micrometers have an IP65 classification and are therefore not only resistent to dust but can also withstand water jets and splashing coolant. The large and clear LCD with 7.5 mm high digits enables easy read-out. The revolutionary *QuantuMike* has a spindle pitch of 2 mm. The spindle feed is therefore 4x faster compared to a standard micrometer.

- Measuring range: 0 - 150 mm.
- Resolution: 0.001 mm.
- ABS/INC switchable.
- Automatic switch-off.
- Reset.
- ABS reset by means of origin.
- Hold function.
- 1 revolution of the thimble = 2 mm (only *QuantuMike*).
- Tungsten carbide measuring faces: ø6.35 mm.
- Varnished frame with insulating grip.
- Protection: IP65.
- Conforms to factory standard.
- Delivery in a plastic case with a manufacturer measuring report (0 - 50 mm).
- Power supply: 1 battery type V357.
- Battery life: approx. 2.4 years.
- The standard model with data output (293.230 - 293.233) is available up to 300 mm, and is also available in sets.
- Models with ratchet thimble are available up to 100 mm measuring range.



293.145

Available up to 300 mm measuring range.





Item No.	Measuring range/mm	Accuracy mm	Digimatic output	Price EUR
293.240	0 - 25	±0.001	no	237.00
293.241	25 - 50	±0.001	no	332.00
293.242	50 - 75	±0.001	no	400.00
293.243	75 - 100	±0.002	no	456.00
293.230	0 - 25	±0.001	yes	306.00
293.231	25 - 50	±0.001	yes	362.00
293.232	50 - 75	±0.001	yes	476.00
293.233	75 - 100	±0.002	yes	519.00
293.250	100 - 125	±0.002	yes	699.00
293.251	125 - 150	±0.002	yes	719.00
293.234[1]	0 - 25	±0.001	yes	368.00
293.244[1]	0 - 25	±0.001	no	255.00
***QuantuMike*:**				
293.145	0 - 25	±0.001	no	261.00
293.146	25 - 50	±0.001	no	360.00
293.147	50 - 75	±0.001	no	430.00
293.148	75 - 100	±0.002	no	490.00
293.140	0 - 25	±0.001	yes	369.00
293.141	25 - 50	±0.001	yes	455.00
293.142	50 - 75	±0.001	yes	545.00
293.143	75 - 100	±0.002	yes	615.00

Options:		
836.535	Spare battery	0.80
105.662[2]	Digimatic data cable, 1 m	102.00
105.663[2]	Digimatic data cable, 2 m	104.00
106.380[2]	USB Input Tool Direct cable, 2 m	138.00
102.310[2,3]	U-WAVE fit connector	107.00
264.622[3]	U-WAVE fit transmitter IP67	183.00
264.626	U-WAVE Bluetooth transmitter IP 67	181.00

[1] With ratchet thimble.
[2] With data switch.
[3] Connector + transmitter are needed.

C03.302.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo Absolute Digimatic Submicrometer MDH

Micrometer with a higher resolution (switchable) and accuracy.

- Measuring range: 0 - 25 mm.
- Resolution: **0.0001** or 0,0005 mm.
- Digimatic data output.
- On/off switch.
- Automatic switch-off.
- Reset/preset.
- Hold function.
- Measuring force: 7 - 9 N.
- Spindle: ø6.35 mm.
- Locking screw.
- Tungsten carbide measuring faces: ø3.2 mm.
- Varnished frame with insulating grip.
- Absolute rotary sensor.
- Weight: 400 g.
- Conforms to factory standard.
- Delivery in a plastic case with a manufacturer measuring report.
- Power supply: 1 battery type CR2032.



Item No.	Measuring range/mm	Accuracy mm	Price EUR
293.100	0 - 25	±0.0005	1,951.00
Options:			
495.157	Spare battery		0.40
105.662[1]	Digimatic data cable, 1 m		102.00
105.663[1]	Digimatic data cable, 2 m		104.00
106.380[1]	USB Input Tool Direct cable, 2 m		138.00
102.791[1]	U-WAVE data cable		107.00

[1] With data switch.

Mitutoyo Quick Mini digital quick thickness gauge

The measuring instrument to always carry with you. Pull back the lever, insert the sample, release the lever and read the value!

- Measuring range: 0 - 12 mm.
- Resolution: 0.01 mm.
- Accuracy: ±0.02 mm.
- Repeatability: 0.01 mm.
- ABS/INC switchable.
- Reset.
- Measuring force: 2 N.
- Anvil measuring face: ø6.5 mm.
- Pin measuring face: ø5 mm.
- Delivery in a plastic case.
- Power supply: 1 battery type V357.



Item No.	Measuring range/mm	Price EUR
700.119	0 - 12	192.00
Option:		
836.535	Spare battery	0.80

C03.316.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Micrometers

- Measuring range: 0 - 300 mm.
- Graduation: 0.01 mm.
- Friction thimble.
- Tungsten carbide measuring faces: ø6.5 mm.
- From measuring range 25 - 50 mm including setting gauge.



906.000



906.008



906.059

906.057



906.056

PRICE

Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.000	0 - 25	±0.004	21.30
906.001	25 - 50	±0.004	23.30
906.002	50 - 75	±0.005	25.90
906.003	75 - 100	±0.005	28.40
906.004	100 - 125	±0.006	32.90
906.005	125 - 150	±0.006	38.50
906.006	150 - 175	±0.007	45.00
906.007	175 - 200	±0.007	51.00
906.008	200 - 225	±0.008	56.00
906.009	225 - 250	±0.008	61.00
906.010	250 - 275	±0.009	66.00
906.011	275 - 300	±0.009	72.00
Model for left- and right-handed use:			
907.167	0 - 25	±0.004	29.80
907.168	25 - 50	±0.004	33.10
907.169	50 - 75	±0.005	35.80
907.170	75 - 100	±0.005	39.70

Sets

Item No.	Measuring range/mm	Price EUR
906.055	0 - 75	70.00
906.056	0 - 100	99.00
906.057	0 - 150	170.00
906.058	150 - 300	351.00
906.059	0 - 300	522.00



907.168

Double graduation: for left- and right-handed use.

C03.210.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Micrometers 0.001 mm, parallax-free

Rugged micrometers with a vernier graduation of 0.001 mm and a favourable price-performance ratio.

- Measuring range: 0 - 200 mm.
- Vernier: 0.001 mm, parallax-free by enlarged thimble.
- Friction thimble.
- Tungsten carbide measuring faces: ø 6.5 mm.
- Delivery incl. adjustment tool.
- From measuring range 25 - 50 mm including setting gauge.



906.280

PRICE

Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.280	0 - 25	±0.004	64.00
906.281	25 - 50	±0.004	70.00
906.282	50 - 75	±0.005	75.00
906.283	75 - 100	±0.005	81.00
906.284	100 - 125	±0.006	93.00
906.285	125 - 150	±0.006	104.00
906.286	150 - 175	±0.007	109.00
906.287	175 - 200	±0.007	120.00

Fast adjustable micrometers

Fast adjustable micrometers due to one revolution resulting in a displacement of 1 mm. The measuring value can be read directly from the 100 step graduation on the thimble.

- Measuring range: 0 - 200 mm.
- Graduation: 0.01 mm.
- 1 revolution of the thimble = 1 mm.
- Thimble with 100 step graduation.
- Tungsten carbide measuring faces: ø 8 mm.
- From measuring range 25 - 50 mm including setting gauge.



907.000

PRICE

Item No.	Measuring range/mm	Accuracy mm	Price EUR
907.000	0 - 25	±0.004	52.00
907.001	25 - 50	±0.004	57.00
907.002	50 - 75	±0.005	63.00
907.003	75 - 100	±0.005	68.00
907.004	100 - 125	±0.006	84.00
907.005	125 - 150	±0.006	94.00
907.006	150 - 175	±0.007	105.00
907.007	175 - 200	±0.007	115.00

Schut

C03.283.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo lightweight micrometers

Mitutoyo micrometers in a lightweight workshop design.

- Measuring range: 0 - 300 mm.
- Graduation: 0.01 mm.
- Measuring force: 5 - 10 N (from 100 mm: 5 - 15 N).
- Locking screw.
- Tungsten carbide measuring faces: ø6.35 mm.
- Varnished frame, from 75 mm with insulating grip.
- Delivery in a plastic case with a manufacturer measuring report (0 - 50 mm), adjustment tool and setting gauge (except 103.137). Sets delivered in a wooden case.
- Available up to 1000 mm.



103.137



Item No.	Measuring range/mm	Accuracy mm	Price EUR
103.137	0 - 25	±0.002	57.00
103.138	25 - 50	±0.002	81.00
103.139	50 - 75	±0.002	107.00
103.140	75 - 100	±0.003	115.00
103.141	100 - 125	±0.003	180.00
103.142	125 - 150	±0.003	201.00
103.143	150 - 175	±0.004	223.00
103.144	175 - 200	±0.004	244.00
103.145	200 - 225	±0.004	268.00
103.146	225 - 250	±0.005	297.00
103.147	250 - 275	±0.005	312.00
103.148	275 - 300	±0.005	334.00

Sets (delivered incl. setting gauges)

Item No.	Measuring range/mm	Pieces	Price EUR
103.927	0 - 75	3	284.00
103.913	0 - 150	6	581.00
103.915	150 - 300	6	1,463.00
103.914	0 - 300	12	2,267.00

TESA micrometers

- Measuring range: 0 - 100 mm.
- Graduation: 0.01 mm.
- Tungsten carbide measuring faces: ø6.5 mm.
- No-glare chrome finished frame and thimble.
- DIN 863 T1.
- Delivery in a plastic case with a manufacturer measuring report.



779.005

Item No.	Measuring range/mm	Accuracy mm	Price EUR
TESA Isomaster			
779.005	0 - 25	±0.004	180.00
779.006	25 - 50	±0.004	265.00
779.007	50 - 75	±0.005	280.00
779.008	75 - 100	±0.005	322.00

Sets

Item No.	Measuring range/mm	Price EUR
781.975	0 - 100	1,042.00

C03.324.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo micrometers

- Measuring range: 0 - 100 mm.
- Graduation: 0.01 mm.
- Measuring force: 5 - 10 N.
- Locking screw.
- Tungsten carbide measuring faces: ø6.35 mm.
- Varnished frame with insulating grip.
- Delivery in a plastic case with a manufacturer measuring report (0 - 50 mm), adjustment tool and setting gauge (except 102.301).



102.301

Set (delivered incl. setting gauges)

Item No.	Measuring range/mm	Pieces	Price EUR
102.911	0 - 100	4	405.00

Item No.	Measuring range/mm	Accuracy mm	Price EUR
102.301	0 - 25	±0.002	65.00
102.302	25 - 50	±0.002	94.00
102.303	50 - 75	±0.002	122.00
102.304	75 - 100	±0.003	142.00

Mitutoyo micrometers with ratchet thimble

Mitutoyo micrometers with a special ratchet thimble, it works both from the thimble and the speeder. For easy one-handed operation.

- Measuring range: 0 - 50 mm.
- Graduation: 0.01 mm or vernier 0.001 mm.
- Measuring force: 5 - 10 N.
- Locking screw.
- Tungsten carbide measuring faces: ø6.35 mm.
- Varnished frame with insulating grip.
- Delivery in a plastic case with a manufacturer measuring report, adjustment tool and setting gauge (except 102.701/707).



102.707

Item No.	Measuring range/mm	Graduation mm	Accuracy mm	Price EUR
102.701	0 - 25	0.01	±0.002	69.00
102.702	25 - 50	0.01	±0.002	105.00
102.707	0 - 25	0.001	±0.002	95.00
102.708	25 - 50	0.001	±0.002	154.00


102.701

C03.306.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Micrometers with a large measuring range

The varnished tubular frame is very stable and equipped with heat insulating grips. With two spacers for a large measuring span.

- Measuring range: 300 - 2000 mm.
- Measuring span:
  300 - 1000 mm: 100 mm
  (travel 25 mm, spacers 25 and 50 mm),
  1000 - 2000 mm: 200 mm
  (travel 50 mm, spacers 50 and 100 mm).
- Graduation: 0.01 mm.
- Rotating spindle.
- Tungsten carbide measuring faces: ø 8 mm.
- Matt chrome-plated thimble.
- With two setting gauges.

Item No.	Measuring range/mm	Accuracy mm	Price EUR
Measuring span 100 mm:			
906.012	300 - 400	±0.011	250.00
906.013	400 - 500	±0.013	283.00
906.014	500 - 600	±0.015	334.00
906.015	600 - 700	±0.016	399.00
906.016	700 - 800	±0.018	471.00
906.017	800 - 900	±0.020	548.00
906.018	900 - 1000	±0.020	646.00
Measuring span 200 mm:			
906.019	1000 - 1200	±0.020	1,311.00
906.020	1200 - 1400	±0.024	1,400.00
906.021	1400 - 1600	±0.028	1,559.00
906.022	1600 - 1800	±0.031	1,656.00
906.023	1800 - 2000	±0.034	1,752.00





906.012

Delivery ex Groningen, Netherlands

C03.214.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Micrometers with a large measuring range

Micrometers with a large measuring range, with very accurate, interchangeable anvils.

- Measuring range: 0 - 300 mm.
- Graduation: 0.01 mm.
- Tungsten carbide measuring faces: ø 6.35 mm.
- Delivery in a plastic case, incl. setting gauges and interchangeable anvils (increasing per 25 mm).



PRICE

Item No.	Measuring range/mm	Accuracy mm	Number of anvils	Number of setting gauges	Price EUR
906.290	0 - 50	±0.004	2	1	62.00
906.294	0 - 100	±0.005	4	3	122.00
906.292	0 - 150	±0.006	6	5	156.00
906.291	50 - 100	±0.005	2	2	81.00
906.295	100 - 200	±0.007	4	4	177.00
906.293	150 - 300	±0.009	6	6	196.00
906.296	200 - 300	±0.009	4	4	190.00

Micrometers with adjustable anvil with dial indicator

Micrometers with an adjustable anvil with dial indicator, for measurements in a wide measuring range.

- Measuring range: 0 - 1000 mm.
- Graduation: 0.01 mm.
- Tungsten carbide measuring faces: ø 8 mm.
- Delivery in a plastic case.

Specifications dial indicator:

- Graduation: 0.01 mm.
- Range adjustable anvil: 5 mm.
- Max. measuring force anvil with dial indicator: 10 N.
- Adjustable tolerance markers.

PRICE



Item No.	Measuring range/mm	Accuracy mm	Price EUR
907.015	0 - 100	±0.006	240.00
907.016	100 - 200	±0.007	324.00
907.017	200 - 300	±0.008	342.00
907.018	300 - 400	±0.009	444.00
907.019	400 - 500	±0.010	498.00
907.020	500 - 600	±0.011	558.00
907.021	600 - 700	±0.012	661.00
907.022	700 - 800	±0.013	763.00
907.023	800 - 900	±0.014	859.00
907.024	900 - 1000	±0.015	979.00

Schut

C03.289.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital micrometers IP65 with a large measuring range

- Measuring range: 0 - 1000 mm.
- Resolution: 0.001 mm.
- mm/inch conversion.
- ABS/INC switchable.
- Automatic switch-off.
- Reset/preset.
- Rotating spindle.
- Adjustable tolerance limits.
- Tungsten carbide measuring faces: ø6.35 mm.
- 0 - 300 mm: cast iron frame, 300 - 1000 mm: tubular steel frame with insulating grips.
- Protection: IP65.
- Delivery in a wooden case with setting gauges interchangable anvils.
- Power supply: 1 battery type V357.



909.580

Item No.	Measuring range/mm	Accuracy mm	Number of anvils	Number of setting gauges	Price EUR
909.580	0 - 100	±0.005	4	3	192.00
909.581	100 - 200	±0.007	4	4	207.00
909.582	200 - 300	±0.008	4	4	229.00
909.583	300 - 400	±0.009	4	2	269.00
909.584	400 - 500	±0.010	4	2	294.00
909.585	500 - 600	±0.010	4	2	330.00
909.586	600 - 700	±0.011	4	2	377.00
909.587	700 - 800	±0.012	4	2	428.00
909.588	800 - 900	±0.013	4	2	486.00
909.589	900 - 1000	±0.013	4	2	534.00
Option:					
836.535 Spare battery					0.80

C03.207.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Micrometers with dial indicator

Micrometers with adjustable anvil and clamping shaft for a dial indicator. Especially suitable for Go/NoGo determination and batch measurements.

- Measuring range: 0 - 175 mm.
- Graduation thimble and dial indicator: 0.01 mm.
- Range adjustable anvil: 8 mm.
- Trigger for (fast) adjustment.
- Tungsten carbide measuring faces: ø6.5 mm.
- Delivery in a wooden case.
- Can also be used in combination with various other dial indicators with clamping stem ø8 mm.



907.008

PRICE

Item No.	Measuring range/mm	Accuracy mm	Price EUR
907.008	0 - 25	±0.004	170.00
907.009	25 - 50	±0.004	181.00
907.010	50 - 75	±0.005	192.00
907.011	75 - 100	±0.005	203.00
907.012	100 - 125	±0.006	214.00
907.013	125 - 150	±0.006	225.00
907.014	150 - 175	±0.007	236.00

Mini-micrometer

- Measuring range: 0 - 15 mm.
- Graduation: 0.01 mm.
- Measuring faces: ø5 mm.
- Without friction thimble.
- Dimensions: total length: 70 mm, throat depth: 14 mm.
- Delivery in a plastic case.



PRICE

Item No.	Measuring range/mm	Price EUR
906.180	0 - 15	41.00

Micrometer with an extra large measuring range

The measuring range of this micrometer can be 'switched' from 25 - 50 to 0 - 25 mm by easy mounting of the extension anvil.

- Measuring range: 0 - 50 mm.
- Graduation: 0.01 mm.
- Accuracy: ±0.004 mm.
- Tungsten carbide measuring faces: ø6.5 mm.
- Delivery in a wooden case, incl. adjustment tool and extension anvil.



PRICE

Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.567	0 - 50	±0.004	91.00

C03.211.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

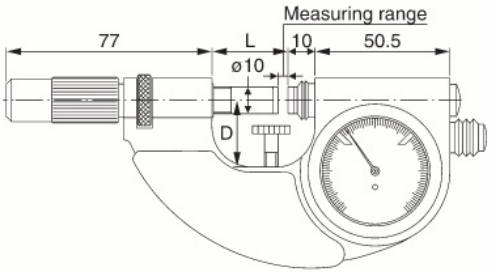
Tolerance micrometers with precision dial indicator

Because of the retractable anvil, the fine adjustment and the tolerance markers, this micrometer is very suitable for batch inspection and tolerance measurements.

- Measuring range: 0 - 100 mm.
- Measuring range dial indicator: ±0.04 mm.
- Graduation (dial indicator): 0.001 mm.
- Accuracy:
  micrometer: ±0.003 mm (only 906.568),
  dial indicator: ±0.001 mm.
- Measuring force: 5 - 10 N
  (only 906.569/570/571/614).
- Adjustable tolerance markers.
- Tungsten carbide measuring faces:
  906.568 - 599: ø6.5 mm,
  906.569 - 614: ø10 mm.
- Delivery in an aluminum case.







Item No.	D/mm	L/mm
906.569	25	28.5
906.570	35	53.5
906.571	47.5	78.5
906.614	60	103.5

Item No.	Measuring range/mm	Graduation mm	Vernier thimble/mm	Price EUR
906.568	0 - 25	0.001	0.002	230.00
906.597	25 - 50	0.001	–	265.00
906.598	50 - 75	0.001	–	300.00
906.599	75 - 100	0.001	–	348.00
With protection IP54:				
906.569	0 - 25	0.001	–	309.00
906.570	25 - 50	0.001	–	340.00
906.571	50 - 75	0.001	–	364.00
906.614	75 - 100	0.001	–	391.00

Tolerance micrometers with two spindles

Can be used as a Go/NoGo micrometer by setting of the lower and upper limits.



- Measuring range: 0 - 50 mm.
- Vernier: 0.002 mm.
- Accuracy: ±0.003 mm.
- Tungsten carbide measuring faces: ø6.5 mm.

906.288

Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.288	0 - 25	±0.003	85.00
906.289	25 - 50	±0.003	102.00

C03.205.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Dial snap gauges

Snap gauges with adjustable anvil and clamping shaft for a dial indicator. Especially suitable for Go/NoGo determination and batch measurements.

- Measuring range: 0 - 300 mm.
- Measuring force: 6 - 9 N.
- Clamping shaft: ø 8 mm (dial gauge not included).
- Travel of moving anvil: 3 mm.
- Anvil size: 14 x 11 mm.
- Chamfered anvils for easy insertion.
- Delivery in a wooden case.
- For suitable dial indicators refer to the dial indicators elsewhere in this catalog.

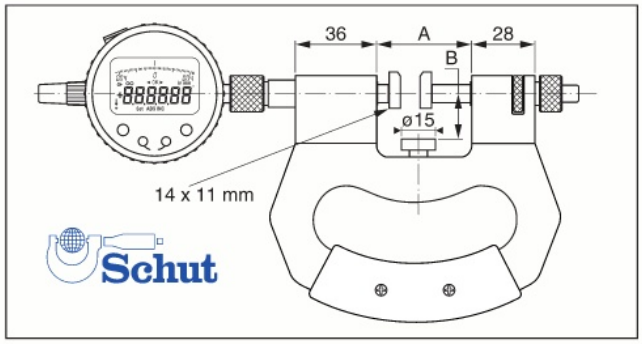




906.237
+ 907.879

PRICE

Item No.	Measuring range/mm	Length/mm A	B	Price EUR
906.237	0 - 25	42	20	203.00
906.238	25 - 50	69	32.5	227.00
906.239	50 - 75	94	45	255.00
906.240	75 - 100	119	57.5	287.00
906.241	100 - 125	144	70	311.00
906.242	125 - 150	169	82.5	335.00
906.243	150 - 175	194	95	359.00
906.244	175 - 200	219	107.5	383.00
906.245	200 - 225	244	120	407.00
906.246	225 - 250	269	132.5	431.00
906.247	250 - 275	294	145	455.00
906.248	275 - 300	319	157.5	479.00



Digital vertical micrometers

Digital vertical micrometers for easy reading, for example, when measuring the thickness of metal or plastic sheet. These micrometers have an IP65 classification and are therefore not only resistant to dust but can also withstand water jets.

- Measuring range: 0 - 50 mm.
- Resolution: 0.001 mm.
- Accuracy: ± 0.002 mm.
- mm/inch conversion.
- ABS/INC switchable.
- On/off switch.
- Automatic switch-off.
- Tungsten carbide measuring faces: ø 6.5 mm.
- Protection: IP65.
- Delivery in a wooden case.
- Power supply: 1 battery type V357.



909.458

PRICE

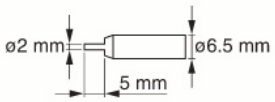
Item No.	Measuring range/mm	Price EUR
909.458	0 - 25	175.00
909.459	25 - 50	205.00
Option:		
836.535	Spare battery	0.80

C03.320.EN.20230516

Micrometers with small measuring faces

For measuring hard-to-reach measuring points such as grooves.

- Measuring range: 0 - 175 mm.
- Analog: graduation 0.01 mm, digital: resolution 0.001 mm.
- Tungsten carbide measuring pins: ø 2 x 5 mm.
- Delivery in a plastic case.



Digital

- mm/inch conversion.
- ABS/INC switchable.
- Reset/preset.
- Hold function.
- Preservation of the min/max value.
- Protection: IP65.
- Power supply: 1 battery type V357.



906.135



909.591

Analog

Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.135	0 - 25	±0.004	57.00
906.136	25 - 50	±0.004	62.00
906.137	50 - 75	±0.005	67.00
906.119	75 - 100	±0.005	80.00
909.320	100 - 125	±0.006	96.00
909.321	125 - 150	±0.006	115.00
909.322	150 - 175	±0.007	138.00

Digital

Item No.	Measuring range/mm	Accuracy mm	Price EUR
909.591	0 - 25	±0.002	160.00
909.592	25 - 50	±0.002	171.00
909.593	50 - 75	±0.003	181.00
909.594	75 - 100	±0.003	192.00
909.595	100 - 125	±0.003	203.00
909.596	125 - 150	±0.003	210.00
909.597	150 - 175	±0.004	221.00
Option:			
836.535	Spare battery		0.80

C03.224.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Micrometers with spherical anvil

Micrometers for measuring bent surfaces and wall thicknesses of tubes, bearings, rings, etc.

- Measuring range: 0 - 100 mm.
- Analog: graduation 0.01 mm, digital: resolution 0.001 mm.
- Tungsten carbide measuring faces: ø6.5 mm.
- Delivery in a plastic case.

Digital

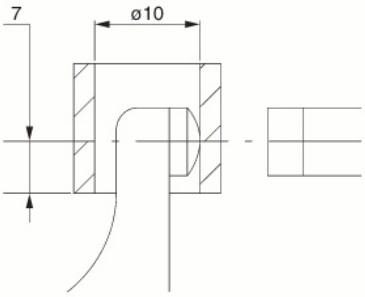
- mm/inch conversion.
- ABS/INC switchable.
- On/off switch.
- Automatic switch-off.
- Reset/preset.
- Protection: IP65.
- Power supply: 1 battery type V357.



906.155



909.598



Analog

Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.155	0 - 25	±0.004	28.80
907.044	25 - 50	±0.004	36.50
907.045	50 - 75	±0.005	60.00
907.046	75 - 100	±0.005	72.00

Digital

Item No.	Measuring range/mm	Accuracy mm	Price EUR
909.598	0 - 25	±0.002	141.00
909.599	25 - 50	±0.002	155.00
909.600	50 - 75	±0.003	170.00
909.601	75 - 100	±0.003	187.00
Option:			
836.535	Spare battery		0.80

C03.272.EN.20230516

Universal micrometers with interchangeable anvils

With these micrometers you are an all-rounder. The instruments have two interchangeable anvils, which gives them a lot of application possibilities. They can also be used as a height gauge, when the clamp for clamping the anvils is removed.

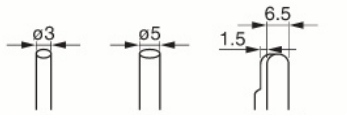
- Measuring range: 0 - 50 mm.
- Analog: graduation 0.01 mm, digital: resolution 0.001 mm.
- Accuracy: ±0.004 mm.
- Tungsten carbide measuring face: ø6.5 mm.
- Delivery in a plastic case, incl. 2 tungsten carbide anvils.

Digital

- mm/inch conversion.
- ABS/INC switchable.
- On/off switch.
- Reset/preset.
- Adjustable tolerance limits (only 909.508).
- Protection: IP65.
- Power supply: 1 battery type V357.



906.190



906.190 906.191 906.190/191
909.508 909.509 909.508/509
Tungsten carbide anvils



909.508

Analog

Item No.	Measuring range/mm	Price EUR
906.190	0 - 25	126.00
906.191	25 - 50	146.00

Digital

Item No.	Measuring range/mm	Price EUR
909.508	0 - 25	167.00
909.509	25 - 50	185.00
Option:		
836.535	Spare battery	0.80

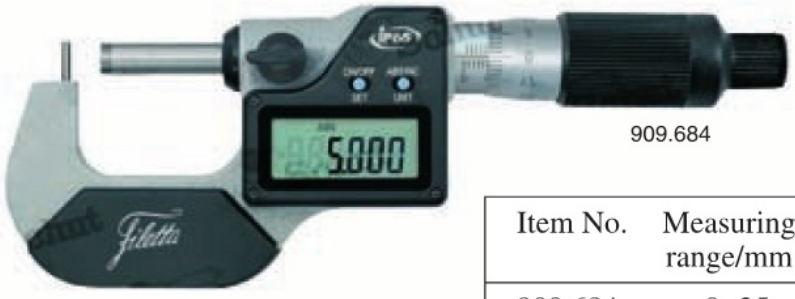
C03.226.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

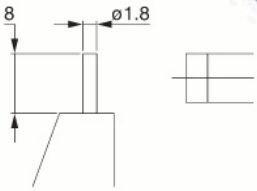
Digital micrometers IP65 with pin-shaped anvil

Digital micrometers for measuring e.g. (tube) wall thickness.

- Measuring range: 0 - 50 mm.
- Resolution: 0.001 mm.
- mm/inch conversion.
- ABS/INC switchable.
- Automatic switch-off.
- Reset/preset.
- Pin-shaped anvil: ø 1.8 mm.
- Tungsten carbide measuring face: ø 6.5 mm.
- Protection: IP65.
- Delivery in a plastic case.
- Power supply: 1 battery type V357.



909.684



Item No.	Measuring range/mm	Accuracy mm	Price EUR
909.684	0 - 25	±0.005	156.00
909.685	25 - 50	±0.005	171.00
Option:			
836.535	Spare battery		0.80

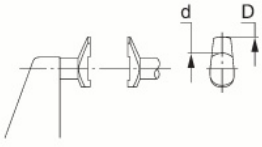
Digital micrometers with special measuring jaws

Digital micrometers with special measuring jaws for measurements in hard-to-reach places such as cut-outs in workpieces, gear pitches, etc.

- Measuring range: 0 - 200 mm.
- Resolution: 0.001 mm.
- mm/inch conversion.
- ABS/INC switchable.
- Automatic switch-off.
- Reset/preset.
- Non-rotating spindle.
- Delivery in a plastic case.
- Power supply: 1 battery type V357.



909.676



Item No.	Measuring range/mm	Accuracy mm	D mm	d ø/mm	Price EUR
909.676	0 - 25	±0.006	R10	8	178.00
909.677	25 - 50	±0.006	R10	8	192.00
909.678	50 - 75	±0.007	R10	8	207.00
909.679	75 - 100	±0.007	R10	8	229.00
909.680	100 - 125	±0.009	R15	12	249.00
909.681	125 - 150	±0.009	R15	12	271.00
909.682	150 - 175	±0.010	R15	12	295.00
909.683	175 - 200	±0.010	R15	12	319.00
Option:					
836.535	Spare battery				0.80

C03.227.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Gear pitch micrometers

Micrometers with large, disk-shaped measuring faces for measuring e.g. gear pitches, paper and foil thickness.

- Measuring range: 0 - 200 mm.
- Analog: graduation 0.01 mm, digital: resolution 0.001 mm.
- Non-rotating spindle: ø 8 mm.
- Measuring faces: stainless steel (HRC 52 - 54).
- Delivery in a plastic case.

Digital

- mm/inch conversion.
- ABS/INC switchable.
- Automatic switch-off.
- Reset/preset.
- Power supply: 1 battery type V357.



906.580



909.777

PRICE

Item No.	Measuring range/mm	Accuracy mm	Measuring faces ø/mm	Price EUR
Analog:				
906.580	0 - 25	±0.006	20	126.00
906.581	25 - 50	±0.006	20	136.00
906.582	50 - 75	±0.007	20	145.00
906.583	75 - 100	±0.007	20	155.00
906.584	100 - 125	±0.009	30	166.00
906.585	125 - 150	±0.009	30	178.00
906.586	150 - 175	±0.010	30	191.00
906.587	175 - 200	±0.010	30	204.00
Digital:				
909.777	0 - 25	±0.006	20	178.00
909.778	25 - 50	±0.006	20	192.00
909.779	50 - 75	±0.007	20	207.00
909.780	75 - 100	±0.007	20	229.00
909.781	100 - 125	±0.009	30	249.00
909.782	125 - 150	±0.009	30	271.00
909.783	150 - 175	±0.010	30	295.00
909.784	175 - 200	±0.010	30	319.00
Option:				
836.535	Spare battery			0.80



C03.274.EN.20230516

Universal micrometers

With the seven interchangeable measuring inserts, which are available as an option, you are very flexible with these micrometers.

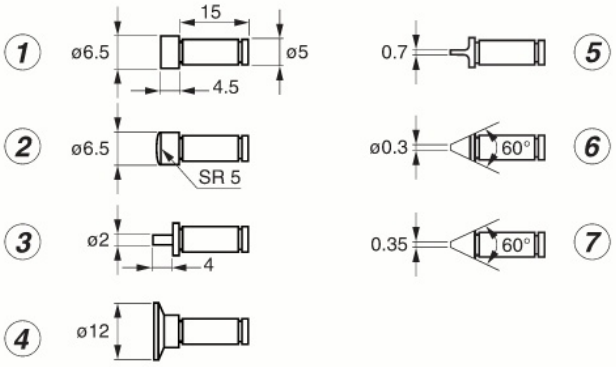
- Measuring range: 0 - 200 mm.
- Analog: graduation 0.01 mm, digital: resolution 0.001 mm.
- Non-rotating spindle.
- Insert shaft: ø5 mm.
- Delivery in a plastic case with cut-outs for inserts.

Digital

- mm/inch conversion.
- ABS/INC switchable.
- On/off switch.
- Preset (except 909.785).
- Power supply: 1 battery type V357.







No.	Item No.	Description measuring faces	Price EUR
Measuring inserts, per pair:			
①	906.788	flat	15.90
②	906.789	spherical	19.00
③	906.790	small	28.60
④	906.791	disc	28.60
⑤	906.792	knife/flat	38.00
⑥	906.793	point	28.60
⑦	906.794	knife	48.00
	906.795	Set of 7 pairs	161.00

Item No.	Measuring range/mm	Accuracy mm	Price EUR
Analog, without measuring inserts:			
906.780	0 - 25	±0.004	81.00
906.781	25 - 50	±0.004	89.00
906.782	50 - 75	±0.005	99.00
906.783	75 - 100	±0.005	114.00
906.784	100 - 125	±0.008	127.00
906.785	125 - 150	±0.008	143.00
906.786	150 - 175	±0.009	156.00
906.787	175 - 200	±0.009	172.00
Digital, without measuring inserts:			
909.785	0 - 25	±0.004	156.00
909.786	25 - 50	±0.004	163.00
909.787	50 - 75	±0.005	171.00
909.788	75 - 100	±0.005	181.00
909.789	100 - 125	±0.008	194.00
909.790	125 - 150	±0.008	207.00
909.791	150 - 175	±0.009	221.00
909.792	175 - 200	±0.009	234.00
Option:			
836.535	Spare battery		0.80

C03.225.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Deep frame micrometers

Micrometers with a deep frame especially for measuring the thickness of e.g. sheet metal, paper and plastic sheets.

- Measuring range: 0 - 50 mm.
- Analog: graduation 0.01 mm, digital: resolution 0.001 mm.
- Tungsten carbide measuring faces: ø6.5 mm.
- Delivery in a wooden case.

Digital

- mm/inch conversion.
- ABS/INC switchable.
- Automatic switch-off.
- Reset/preset.
- Protection: IP65.
- Power supply: 1 battery type V357.



907.068



909.694

PRICE

Item No.	Measuring range/mm	Accuracy mm	Throat depth/mm	Price EUR
Analog:				
907.068	0 - 25	±0.004	50	73.00
907.069	25 - 50	±0.004	50	83.00
907.070	0 - 25	±0.005	100	78.00
907.071	25 - 50	±0.005	100	89.00
907.072	0 - 25	±0.006	150	97.00
907.073	25 - 50	±0.006	150	102.00
Digital:				
909.694	0 - 25	±0.004	50	166.00
909.695	25 - 50	±0.004	50	172.00
909.696	0 - 25	±0.005	100	170.00
909.697	25 - 50	±0.005	100	176.00
909.698	0 - 25	±0.006	150	180.00
909.699	25 - 50	±0.006	150	188.00
Option:				
836.535	Spare battery			0.80

Schut

C03.276.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Brake disc micrometers

Micrometers especially suited for measuring the groove depth of brake discs.

- Measuring range: 7.6 - 50 mm.
- Analog: graduation 0.01 mm, digital: resolution 0.001 mm.
- Anvil with 60° point.
- Tungsten carbide measuring face: ø6.5 mm.
- Throat depth: 88 mm.
- Delivery in a wooden case (except 909.794: delivery in a plastic case).


907.056

Digital

- mm/inch conversion.
- ABS/INC switchable.
- Automatic switch-off.
- Reset/preset.
- Protection: IP65.
- Power supply: 1 battery type V357.


909.793

Analog

Item No.	Measuring range/mm	Accuracy mm	Price EUR
907.056	7.6 - 33	±0.004	50.00
907.057	25 - 50	±0.004	67.00

Digital

Item No.	Measuring range/mm	Accuracy mm	Price EUR
909.793	7.6 - 33	±0.004	148.00
909.794	25 - 50	±0.004	159.00
Option:			
836.535	Spare battery		0.80

Digital micrometers IP65 with large anvils

- Measuring range: 0 - 50 mm.
- Resolution: 0.001 mm.
- mm/inch conversion.
- ABS/INC switchable.
- On/off switch.
- On/reset switch.
- Tungsten carbide measuring face: ø6.5 mm.
- Anvil size: 909.488: 50 x 14 mm, 909.489: 60 x 14 mm.
- Protection: IP65.
- Delivery in a wooden case.
- Power supply: 1 battery type V357.


909.488



Item No.	Measuring range/mm	Accuracy mm	Price EUR
909.488	0 - 25	±0.004	221.00
909.489	25 - 50	±0.004	254.00
Option:			
836.535	Spare battery		0.80

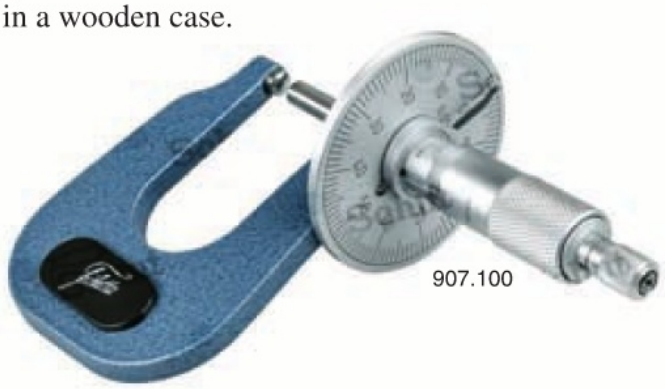
C03.275.EN.20230516

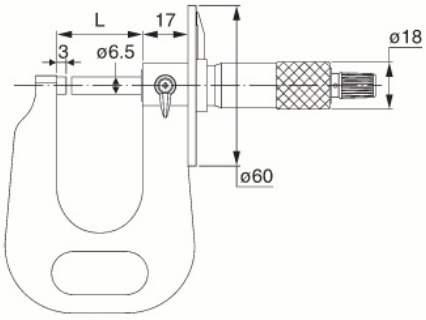
© 2023, Schut Geometrische Meettechniek bv

Sheet metal micrometers

Micrometers especially suited for measuring the thickness of metal sheets, e.g. sheet metal. The large dial makes the reading very easy and quick.

- Measuring range: 0 - 25 mm.
- Graduation: 0.01 mm.
- Tungsten carbide measuring faces: ø 6.5 mm.
- Throat depth: 50.
- Delivery in a wooden case.

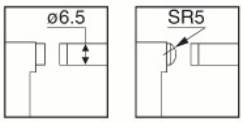




Schut

PRICE

Item No.	Measuring range/mm	Accuracy mm	Measuring faces	L mm	Price EUR
907.058	0 - 15	±0.004	flat/flat	22	75.00
907.059	0 - 25	±0.004	flat/flat	32	90.00
907.099	0 - 15	±0.004	spherical/flat	22	75.00
907.100	0 - 25	±0.004	spherical/flat	32	90.00



Micrometers with extra large measuring faces

Micrometers with extra large disk-shaped measuring faces for measurements of e.g. paper thickness and soft materials.

- Measuring range: 0 - 100 mm.
- Graduation: 0.01 mm.
- Non-rotating spindle.
- Tungsten carbide measuring faces: ø 60 mm.
- Delivery in a wooden case.



PRICE

Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.588	0 - 25	±0.008	179.00
906.589	25 - 50	±0.008	202.00
906.590	50 - 75	±0.010	234.00
906.591	75 - 100	±0.010	276.00

C03.286.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Gear micrometers

Micrometers with ball-tipped measuring faces for measurements of straight and tapered external gears. Several measuring inserts optionally available.

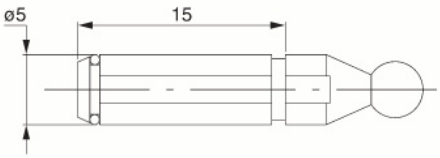
- Measuring range: 0 - 175 mm.
- Analog: graduation 0.01 mm, digital: resolution 0.001 mm.
- Dimensions of anvil-tail: ø 5 x 15 mm.
- Tungsten carbide, ball-tipped measuring faces.
- Delivery in a plastic case with cut-outs for inserts.

Digital

- mm/inch conversion.
- ABS/INC switchable.
- Automatic switch-off.
- Reset/preset.
- Protection: IP65.
- Power supply: 1 battery type V357.







Item No.	Ball ø/mm	Module	Price EUR
Measuring inserts, per pair:			
907.088	1.0	0.6 - 0.65	62.00
907.089	1.5	0.9 - 1.0	62.00
907.090	2.0	1.25	62.00
907.091	2.5	1.5	62.00
907.092	3.0	1.75	62.00
907.093	3.5	2	62.00
907.094	4.0	2.25	62.00
907.095	4.5	2.5	62.00
907.096	5.0	2.75	62.00
907.097	6.0	3.5	62.00
907.098	Set 907.088 - 907.097		557.00

Item No.	Measuring range/mm	Accuracy mm	Price EUR
Analog, without measuring inserts:			
907.081	0 - 25	±0.004	93.00
907.082	25 - 50	±0.004	104.00
907.083	50 - 75	±0.005	115.00
907.084	75 - 100	±0.005	126.00
907.085	100 - 125	±0.006	137.00
907.086	125 - 150	±0.006	148.00
907.087	150 - 175	±0.007	159.00
Digital, without measuring inserts:			
909.859	0 - 25	±0.004	163.00
909.860	25 - 50	±0.004	170.00
909.861	50 - 75	±0.005	177.00
909.862	75 - 100	±0.005	185.00
909.863	100 - 125	±0.006	192.00
909.864	125 - 150	±0.006	199.00
909.865	150 - 175	±0.007	207.00
Option:			
836.535	Spare battery		0.80

C03.271.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Micrometers with prism-shaped anvil

Analog and digital micrometers with prism-shaped anvil for measuring the diameters of objects with an odd number of flutes such as taps, reamers and mills. The angle of the prism aperture is designed for 3-, 5- or 7-fluted workpieces.

- Measuring range: 1 - 105 mm.
- Analog: graduation 0.01 mm, digital: resolution 0.001 mm.
- Spindle: ø6.5 mm.
- Tungsten carbide measuring faces. The 906.160 and 909.866 have a pointed spindle for the smallest objects.
- V-groove for: 3-fluted objects: 60°, 5-fluted objects: 108°, 7-fluted objects: 128° 34' 17".
- Delivery in a plastic case, with a setting standard.

Digital

- mm/inch conversion.
- ABS/INC switchable.
- Automatic switch-off.
- Reset/preset.
- Protection: IP65.
- Power supply: 1 battery type V357.



906.161



909.866

PRICE

Item No.	Measuring range/mm	Accuracy mm	Price EUR	Item No.	Price EUR
For 3-fluted objects (60°), analog:				**Digital:**	
906.160	1 - 15	±0.004	142.00	909.866	221.00
906.161	5 - 20	±0.004	148.00	909.867	226.00
906.162	20 - 35	±0.005	177.00	909.868	247.00
906.163	35 - 50	±0.005	218.00	909.869	278.00
906.164	50 - 65	±0.006	234.00	909.870	282.00
906.165	65 - 80	±0.006	253.00	909.871	296.00
907.060	80 - 95	±0.007	273.00	909.872	311.00
For 5-fluted objects (108°), analog:				**Digital:**	
906.166	5 - 25	±0.004	147.00	909.873	225.00
906.167	25 - 45	±0.005	189.00	909.874	256.00
906.168	45 - 65	±0.006	218.00	909.875	277.00
906.169	65 - 85	±0.007	253.00	909.876	303.00
907.061	85 - 105	±0.008	288.00	909.877	329.00
For 7-fluted objects (128° 34' 17"), analog:				**Digital:**	
906.170	5 - 25	±0.004	147.00	909.878	225.00
906.171	25 - 45	±0.005	189.00	909.879	256.00
906.172	45 - 65	±0.006	218.00	909.880	277.00
906.173	65 - 85	±0.007	253.00	909.881	303.00
Option:					
836.535	Spare battery		0.80		

Schut

Setting standards

Item No.	ø mm	Price EUR
909.323	5	12.80
909.324	20	37.80
909.325	25	42.00
909.326	35	44.00
909.327	45	46.00
909.328	50	54.00
909.329	65	76.00
909.330	80	102.00
909.331	85	110.00



909.326

C03.233.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Micrometers with pointed measuring faces

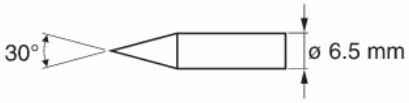
- Measuring range: 0 - 100 mm.
- Analog: graduation 0.01 mm, digital: resolution 0.001 mm.
- Delivery in a plastic case.

Digital

- mm/inch conversion.
- ABS/INC switchable.
- Preset.
- Protection: IP65.
- Power supply: 1 battery type V357.



906.145





909.643

Analog

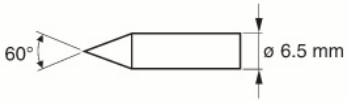
Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.145	0 - 25	±0.004	57.00
906.146	25 - 50	±0.004	62.00
906.147	50 - 75	±0.005	67.00
906.199	75 - 100	±0.005	80.00

Digital

Item No.	Measuring range/mm	Accuracy mm	Price EUR
909.643	0 - 25	±0.004	160.00
909.644	25 - 50	±0.004	171.00
909.645	50 - 75	±0.005	181.00
909.646	75 - 100	±0.005	192.00
Option:			
836.535	Spare battery		0.80

Micrometers with one pointed measuring face

- Measuring range: 0 - 50 mm.
- Graduation: 0.01 mm.
- Delivery in a plastic case.





906.151

Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.151	0 - 25	±0.004	57.00
906.153	25 - 50	±0.004	62.00

C03.234.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Blade micrometers

For measuring grooves, keyways and other hard-to-reach places.

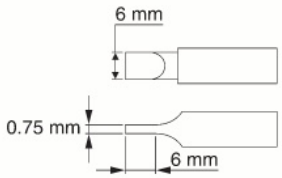
- Measuring range: 0 - 175 mm.
- Analog: graduation 0.01 mm, digital: resolution 0.001 mm.
- Non-rotating spindle.
- Blade width: 0.75 mm, blade length: 6 mm, blade width: 6 mm.
- Delivery in a plastic case.

Digital

- mm/inch conversion.
- ABS/INC switchable.
- Reset/preset.
- Hold function.
- Power supply: 1 battery type V357.



906.141





909.882

Analog

Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.141	0 - 25	±0.004	121.00
906.142	25 - 50	±0.004	130.00
906.143	50 - 75	±0.005	139.00
906.144	75 - 100	±0.005	153.00
906.222	100 - 125	±0.006	168.00
906.223	125 - 150	±0.006	182.00
906.224	150 - 175	±0.007	198.00

Digital



Item No.	Measuring range/mm	Accuracy mm	Price EUR
909.882	0 - 25	±0.004	181.00
909.883	25 - 50	±0.004	192.00
909.884	50 - 75	±0.005	203.00
909.885	75 - 100	±0.005	218.00
909.886	100 - 125	±0.006	229.00
909.887	125 - 150	±0.006	240.00
909.888	150 - 175	±0.007	250.00
Option:			
836.535	Spare battery		0.80

C03.235.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Screw thread micrometers

- Measuring range: 0 - 200 mm.
- Analog: graduation 0.01 mm, digital: resolution 0.001 mm.
- Insert shaft: ø 5 mm.
- DIN 863 T3.
- Delivery incl. adjustment tools.
- From measuring range 25 - 50 mm including setting gauge 60°.
- Matt chrome-plated thimble.
- Delivery in a plastic case with cut-outs for inserts.

Digital

- mm/inch conversion.
- ABS/INC switchable.
- On/off switch.
- Reset/preset.
- Protection: IP65.
- Power supply: 1 battery type V357.

Analog

- Non-rotating spindle.



906.751



909.889

PRICE

Analog, without measuring inserts

Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.750	0 - 25	±0.004	85.00
906.751	25 - 50	±0.004	94.00
906.752	50 - 75	±0.005	109.00
906.753	75 - 100	±0.005	119.00
906.754	100 - 125	±0.006	136.00
906.755	125 - 150	±0.006	153.00
906.756	150 - 175	±0.007	169.00
906.757	175 - 200	±0.007	186.00

Digital, without measuring inserts

Item No.	Measuring range/mm	Accuracy mm	Price EUR
909.889	0 - 25	±0.004	131.00
909.890	25 - 50	±0.004	141.00
909.891	50 - 75	±0.005	152.00
909.892	75 - 100	±0.005	165.00
909.893	100 - 125	±0.006	244.00
909.894	125 - 150	±0.006	265.00
909.895	150 - 175	±0.007	289.00
909.896	175 - 200	±0.007	315.00
Option:			
836.535	Spare battery		0.80

C03.240.EN.20230516

Screw thread micrometers (continued)

Measuring inserts for screw thread micrometers with clamping shaft ø 5 mm.





906.725

Item No.	Threads per inch	Price EUR
Measuring inserts for Whitworth threads, 55° flank angle, per pair:		
906.730	60 - 48	23.80
906.731	48 - 40	23.80
906.732	40 - 32	23.80
906.733	32 - 24	23.80
906.734	24 - 18	23.80
906.735	18 - 14	23.80
906.736	14 - 10	23.80
906.737	10 - 7.0	23.80
906.738	7.0 - 4.5	23.80
906.739	4.5 - 3.5	23.80
906.740	Set 60 - 3.5	186.00

Item No.	Pitch/mm	Price EUR
Measuring inserts for metric threads, 60° flank angle, per pair:		
906.720	0.4 - 0.5	23.80
906.721	0.6 - 0.9	23.80
906.722	1.0 - 1.75	23.80
906.723	2.0 - 3.0	23.80
906.724	3.5 - 5.0	23.80
906.725	5.5 - 7.0	23.80
906.726	Set 0.4 - 7.0	111.00

Item No.	Threads per inch	Price EUR
Measuring inserts for UN, UNC and UNF threads, 60° flank angle, per pair:		
906.741	64 - 48	23.80
906.742	44 - 28	23.80
906.743	24 - 14	23.80
906.744	13 - 9	23.80
906.745	8 - 5	23.80
906.746	4.5 - 3.5	23.80
906.747	Set 64 - 3.5	111.00



909.305

Item No.	Length/mm	Price EUR
Hardened steel setting standards for threads with 60° flank angle:		
909.304	25	43.00
909.305	50	50.00
909.306	75	57.00
909.307	100	66.00
909.308	125	76.00
909.309	150	87.00
909.310	175	100.00
909.311	200	115.00

Item No.	Length/mm	Price EUR
Hardened steel setting standards for threads with 55° flank angle:		
909.312	25	43.00
909.313	50	50.00
909.314	75	57.00
909.315	100	66.00
909.316	125	76.00
909.317	150	87.00
909.318	175	100.00
909.319	200	115.00

C03.241.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Thread measuring wires

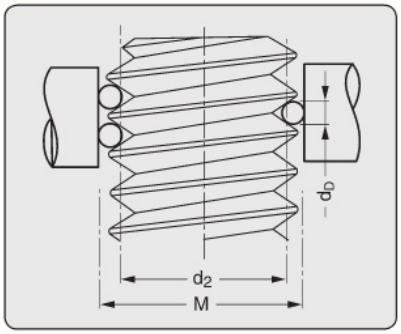
For measuring external threads using the three-wire method. The flank diameter can be determined according to the measured diameter, using tables.

- For micrometers with measuring faces ø6.35, ø6.5 or ø8 mm. (Also available for measuring faces ø6.8 and ø7.5 mm.)
- Very high measuring accuracy: ±0.001 mm.
- In pairs or in a set.
- The wire holders are held in position on the anvil and spindle by a spring clamp.
- The wires are mounted on the holder in such a way that they position themselves on the thread.









Thread measuring wires for micrometers with measuring faces ø6.35, ø6.5 or ø8 mm

ø6.35 mm Item No.	ø6.35 mm Price EUR	ø6.5 mm Item No.	ø6.5 mm Price EUR	ø8 mm Item No.	ø8 mm Price EUR	Wire diameter d_D/mm	Metric, pitch in mm	Whitworth, threads per inch	UN/UNC/UNF, threads per inch
833.442	158.00	779.161	158.00	836.689	158.00	0.17	0.25; 0.3	–	–
833.443	158.00	781.651	158.00	836.690	158.00	0.195	–	–	80
833.444	158.00	779.162	158.00	836.691	158.00	0.22	0.35	–	72
833.445	158.00	779.163	158.00	835.844	158.00	0.25	0.4	–	64
833.446	158.00	779.164	158.00	834.499	158.00	0.29	0.45; 0.5	–	56
833.447	158.00	779.165	158.00	834.498	158.00	0.335	0.6	40	48; 44
833.448	158.00	781.652	158.00	837.848	158.00	0.390	–	–	40
833.449	158.00	779.166	158.00	833.872	158.00	0.455	0.7 - 0.8	–	36
833.450	158.00	779.167	158.00	834.585	158.00	0.53	–	32; 28	32; 28
833.451	158.00	779.168	158.00	834.480	158.00	0.62	1	26; 24	24
833.452	158.00	779.169	158.00	834.586	158.00	0.725	1.25	22; 20; 19	20
833.453	158.00	779.170	158.00	834.290	158.00	0.895	1.5	18; 16	18; 16
833.454	158.00	779.171	158.00	834.502	158.00	1.10	1.75	14	14; 13
833.455	158.00	779.172	158.00	834.291	158.00	1.35	2	12; 11	12; 11
833.456	158.00	779.173	158.00	833.871	158.00	1.65	2.5	10; 9	10; 9
833.457	158.00	779.174	158.00	834.292	158.00	2.05	3.0; 3.5	8; 7	8; 7
833.458	158.00	779.175	158.00	834.416	158.00	2.55	4.0; 4.5	6	6
833.459	158.00	779.176	158.00	834.483	158.00	3.20	5.0; 5.5	5; 4.5	5; 4.5
837.501	491.00	837.642	491.00	834.509	491.00	4.00	6.0	4; 3.5	4
834.580	2,910.00	779.160	2,910.00	834.581	2,910.00	Set with wire diameters 0.17 to 3.20 mm			

C03.244.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Hub micrometers

Micrometers with a shallow bracket for measuring the thickness of bearing bushes, bore shoulders and other hard-to-reach places.

- Measuring range: 0 - 100 mm.
- Graduation: 0.01 mm.
- Tungsten carbide measuring faces: ø6.5 mm.
- Varnished frame.
- Throat depth: 10.2 mm.
- Throat height: 21.2 mm (907.133: 18.7 mm).



907.133

Item No.	Measuring range/mm	Accuracy mm	Price EUR
907.133	0 - 25	±0.004	68.00
907.134	25 - 50	±0.004	79.00
907.135	50 - 75	±0.004	91.00
907.136	75 - 100	±0.005	102.00

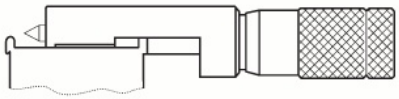
Can seam micrometer

Micrometer especially for measuring the depth and thickness of e.g. the seams of steel cans.

- Measuring range: 0 - 13 mm.
- Graduation: 0.01 mm.
- Accuracy: ±0.004 mm.
- Tungsten carbide measuring faces: ø5 mm.



Item No.	Measuring range/mm	Price EUR
907.175	0 - 13	65.00



Wire and ball micrometer

- Measuring range: 0 - 10 mm.
- Graduation: 0.01 mm.
- Accuracy: ±0.004 mm.
- Tungsten carbide measuring faces: ø6.5 mm.



Item No.	Measuring range/mm	Price EUR
906.175	0 - 10	71.00

C03.236.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo special-purpose micrometers

Mitutoyo special-purpose analog and digital micrometers. For more information please contact our sales department.

Item No.	Measuring range/mm	Read-out[1] mm		Price EUR
With small measuring faces ø3 mm:				
111.115	0 - 25	0.01	(A)	235.00
111.116	25 - 50	0.01	(A)	287.00
111.117	50 - 75	0.01	(A)	326.00
111.118	75 - 100	0.01	(A)	348.00
331.251[2]	0 - 25	0.001	(D)	791.00
331.252[2]	25 - 50	0.001	(D)	847.00
331.253[2]	50 - 75	0.001	(D)	903.00
331.254[2]	75 - 100	0.001	(D)	944.00
With small measuring faces ø2 mm:				
111.215	0 - 25	0.01	(A)	235.00
331.261[2]	0 - 25	0.001	(D)	778.00
331.262[2]	25 - 50	0.001	(D)	847.00
331.263[2]	50 - 75	0.001	(D)	903.00
331.264[2]	75 - 100	0.001	(D)	944.00
With prism-shaped anvil (with grooves):				
114.101	1 - 15	0.01	(A)	397.00
114.102	10 - 25	0.01	(A)	466.00
314.251	1 - 15	0.001	(D)	989.00
314.252	10 - 25	0.001	(D)	1,033.00
With prism-shaped anvil (without grooves):				
114.161	1 - 15	0.01	(A)	372.00
114.204[3]	2.3 - 25	0.01	(A)	545.00
114.162	10 - 25	0.01	(A)	458.00
114.103	25 - 40	0.01	(A)	475.00
314.261	1 - 15	0.001	(D)	989.00
314.262	10 - 25	0.001	(D)	1,033.00
314.253	25 - 40	0.001	(D)	1,059.00


111.115


331.251


114.102


314.251


114.204


314.252

[1] A = analog read-out, D = digital read-out.
[2] Digimatic *Coolant Proof* (IP65) model.
[3] With tungsten carbide measuring faces.


112.201


342.251


112.401


342.271


122.101


422.230

Item No.	Measuring range/mm	Read-out[1] mm		Price EUR
With pointed measuring faces 15°:				
112.153	0 - 25	0.01	(A)	235.00
112.154	25 - 50	0.01	(A)	287.00
342.251[2]	0 - 25	0.001	(D)	745.00
342.252[2]	25 - 50	0.001	(D)	826.00
342.253[2]	50 - 75	0.001	(D)	872.00
342.254[2]	75 - 100	0.001	(D)	918.00
With pointed measuring faces 30°:				
112.201	0 - 25	0.01	(A)	235.00
112.202	25 - 50	0.01	(A)	287.00
342.261[2]	0 - 25	0.001	(D)	748.00
342.262[2]	25 - 50	0.001	(D)	826.00
342.263[2]	50 - 75	0.001	(D)	872.00
342.264[2]	75 - 100	0.001	(D)	918.00
With pointed measuring face and lamellar anvil:				
112.401	0 - 25	0.01	(A)	295.00
342.271[2]	0 - 20	0.001	(D)	700.00
With lamellar measuring faces:				
122.101	0 - 25	0.01	(A)	297.00
122.102	25 - 50	0.01	(A)	359.00
122.103	50 - 75	0.01	(A)	384.00
122.104	75 - 100	0.01	(A)	417.00
122.105	100 - 125	0.01	(A)	443.00
122.106	125 - 150	0.01	(A)	467.00
122.107	150 - 175	0.01	(A)	507.00
122.108	175 - 200	0.01	(A)	554.00
422.230	0 - 25	0.001	(D)	1,119.00
422.231	25 - 50	0.001	(D)	1,175.00
422.232	50 - 75	0.001	(D)	1,232.00
422.233	75 - 100	0.001	(D)	1,284.00

C03.311.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo special-purpose micrometers (continued)

Item No.	Measuring range/mm	Read-out[1] mm		Price EUR
With disk-shaped measuring faces for gear pitch measurements:				
123.101	0 - 25	0.01	(A)	263.00
123.102	25 - 50	0.01	(A)	295.00
123.103	50 - 75	0.01	(A)	324.00
123.104	75 - 100	0.01	(A)	376.00
123.105	100 - 125	0.01	(A)	397.00
123.106	125 - 150	0.01	(A)	419.00
123.107	150 - 175	0.01	(A)	448.00
123.108	175 - 200	0.01	(A)	486.00
123.109	200 - 225	0.01	(A)	497.00
123.110	225 - 250	0.01	(A)	513.00
123.111	250 - 275	0.01	(A)	539.00
123.112	275 - 300	0.01	(A)	562.00
323.250[2]	0 - 25	0.001	(D)	827.00
323.251[2]	25 - 50	0.001	(D)	922.00
323.252[2]	50 - 75	0.001	(D)	970.00
323.253[2]	75 - 100	0.001	(D)	1,006.00
With non-rotating spindle and disk-shaped measuring faces for soft materials:				
169.101	0 - 25	0.01	(A)	318.00
169.201[3]	0 - 25	0.01	(A)	323.00
369.250[3]	0 - 25	0.001	(D)	927.00
369.251[3]	25 - 50	0.001	(D)	1,015.00
369.252[3]	50 - 75	0.001	(D)	1,058.00
369.253[3]	75 - 100	0.001	(D)	1,109.00
Universal, with interchangeable anvils:				
117.101	0 - 25	0.01	(A)	326.00
117.102	25 - 50	0.01	(A)	412.00
317.251[2]	0 - 25	0.001	(D)	697.00
317.252[2]	25 - 50	0.001	(D)	775.00
With measuring jaws for hard-to-reach places:				
143.101	0 - 25	0.01	(A)	382.00
143.102	25 - 50	0.01	(A)	405.00
143.103	50 - 75	0.01	(A)	482.00
143.104	75 - 100	0.01	(A)	507.00
343.250	0 - 25	0.001	(D)	897.00
343.251	25 - 50	0.001	(D)	962.00
343.252	50 - 75	0.001	(D)	1,016.00
343.253	75 - 100	0.001	(D)	1,059.00
With exchangeable ball inserts for external gears[4]:				
224.251[2]	0 - 25	0.001	(D)	1,006.00
224.252[2]	25 - 50	0.001	(D)	1,027.00
224.253[2]	50 - 75	0.001	(D)	1,051.00
224.254[2]	75 - 100	0.001	(D)	1,078.00

[1] A = analog read-out, D = digital read-out.
[2] Digimatic *Coolant Proof* (IP65) model.


123.101


323.250


169.201


369.250


117.101


317.251


143.101


343.250


224.251


126.125


326.251

Item No.	Measuring range/mm	Read-out[1] mm		Price EUR
For thread measurements (pitch diameters)[4]:				
126.125	0 - 25	0.01	(A)	363.00
126.126	25 - 50	0.01	(A)	435.00
126.127	50 - 75	0.01	(A)	484.00
126.128	75 - 100	0.01	(A)	512.00
126.129	100 - 125	0.01	(A)	530.00
126.130	125 - 150	0.01	(A)	640.00
326.251[2]	0 - 25	0.001	(D)	850.00
326.252[2]	25 - 50	0.001	(D)	1,051.00
326.253[2]	50 - 75	0.001	(D)	1,078.00
326.254[2]	75 - 100	0.001	(D)	1,135.00

[3] Offset measuring faces.
[4] Measuring inserts separately available.

C03.312.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

TESA special-purpose micrometers

TESA special-purpose analog and digital micrometers. For more information please contact our sales department.



782.111

Item No.	Measuring range/mm	Read-out[1] mm	Price EUR
With small measuring faces ø 2 mm:			
782.111[1]	0 - 30	0.001	829.00



779.090

Item No.	Measuring range/mm	Read-out[1] mm	Price EUR
With non-rotating spindle and disk-shaped measuring faces for gear pitch measurements:			
779.090	25 - 50	0.01	524.00



782.190

Item No.	Measuring range/mm	Read-out[1] mm	Price EUR
With prism-shaped anvil[2] (V-angle 60°, for 3-fluted objects):			
782.190[1]	5 - 20	0.001	1,177.00

Accessories for (wireless) data transfer available on request.

[1] Model with IP54 protection (IP40 when using data output).
[2] Setting standards are separately available.

C03.325.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Setting gauges

Cylindrical gauges for micrometers with flat parallel measuring faces.

- Measuring faces $L < 100$ mm: ø7 mm, flat,
  $L < 300$ mm: ø8 mm, flat,
  $L \geq 300$ mm: ø8 mm, spherical.
- With plastic insulating grip.
- Larger sizes available on request.



907.464

PRICE

Item No.	Length mm	Accuracy µm	Price EUR
907.464	25	± 2	4.80
907.465	50	± 2	5.50
907.466	75	± 2.5	6.90
907.467	100	± 2.5	8.90
907.468	125	± 3	11.10
907.469	150	± 3	12.50
907.470	175	± 3.5	14.50
907.471	200	± 4	16.60
907.472	225	± 4	18.50
907.473	250	± 4	21.20
907.474	275	± 4.5	23.10
907.475	300	± 4.5	45.00
907.476	325	± 5	45.00
907.477	350	± 5	54.00
907.478	375	± 5.5	45.00
907.479	400	± 5.5	54.00
907.480	425	± 6	48.00
907.481	450	± 6	58.00
907.482	475	± 6.5	48.00
907.483	500	± 6.5	58.00
907.484	525	± 7	59.00
907.485	575	± 7.5	59.00
907.486	625	± 7.5	70.00
907.487	675	± 8	70.00
907.488	725	± 8.5	79.00
907.489	775	± 9.5	79.00
907.490	825	±10	91.00
907.491	875	±10.5	91.00
907.492	925	±11	111.00
907.493	975	±11.5	111.00
907.494	1050	±12	155.00
907.495	1150	±13	155.00
907.496	1250	±14	187.00
907.497	1350	±15	187.00
907.498	1450	±16	223.00
909.529	1550	±17	223.00
909.530	1650	±18	268.00
909.531	1750	±19	268.00
909.532	1850	±20	321.00
909.533	1950	±21	321.00

Setting standards

Cylindrical setting standards for micrometers with prism-shaped anvil.



Schut

909.326

PRICE

Item No.	Diameter/mm	Price EUR
909.323	5	12.80
909.324	20	37.80
909.325	25	42.00
909.326	35	44.00
909.327	45	46.00
909.328	50	54.00
909.329	65	76.00
909.330	80	102.00
909.331	85	110.00

Setting standards

Hardened steel setting standards for threads with 55° or 60° flank angle.



909.305

PRICE

Item No.	Length/mm	Price EUR
For threads with 60° flank angle:		
909.304	25	43.00
909.305	50	50.00
909.306	75	57.00
909.307	100	66.00
909.308	125	76.00
909.309	150	87.00
909.310	175	100.00
909.311	200	115.00
For threads with 55° flank angle:		
909.312	25	43.00
909.313	50	50.00
909.314	75	57.00
909.315	100	66.00
909.316	125	76.00
909.317	150	87.00
909.318	175	100.00
909.319	200	115.00

C03.219.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Micrometer stand

Rigid table stand for micrometers.

- Inclination adjustable.
- Weight: 1.1 kg.



Item No.	Clamping range/mm	Price EUR
906.212	0 - 18	17.40

Micrometer stand

Cast steel stand for micrometers.

- Fixed inclination: 45°.
- Weight: 0.7 kg.



Item No.	Clamping range/mm	Price EUR
908.983	4 - 12	23.20

Foldable micrometer stand

Portable stand with a folded structure for micrometers.

- Inclination adjustable.
- Weight: 1 kg.



Item No.	Clamping range/mm	Price EUR
907.152	7 - 14	27.20

Ball attachments

These ball attachments can be clamped on any anvil and spindle with a diameter of 6.5 or 8 mm.

- Ball: ø 5 mm.



Item No.	Description	Price EUR
907.150	Ball attachment, ø 6.5 mm	18.60
907.166	Ball attachment, ø 8 mm	18.60

Measuring force indicators

Within the range of 5 to 12 N these measuring force indicators can show the measuring force of micrometers.



907.151

Item No.	For micrometers	Price EUR
907.151	0 - 25 mm	11.20
908.947	25 - 50 mm	17.80
908.948	50 - 75 mm	27.80
908.949	75 - 100 mm	31.50

C03.310.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Probe set for micrometers

These attachments can be clamped on any anvil and spindle with a diameter of 6.5 mm. The set consists of a point-shaped, knife-edged, blade-shaped, disk-shaped, ball-shaped probe and one with a small and one with a very small measuring face.

- Delivery in a plastic case.



Item No.	Description	Price EUR
909.118	Probe set for micrometers	22.70

Micrometer inspection sets

For the inspection of micrometers according DIN 863. Suitable for micrometers with a measuring range up to 25 mm.

- Nominal sizes (mm): 2.5 - 5.1 - 7.7 - 10.3 - 12.9 - 15.0 - 17.6 - 20.2 - 22.8 - 25.0.
- Including plan parallel optical flat ø 30 x 12 mm.
- Delivery in a wooden case with a manufacturer measuring report.



909.340

Item No.	Material	Grade	Price EUR
909.346	steel	1	215.00
909.345	steel	0	286.00
909.162	ceramic	1	485.00
909.340	ceramic	0	534.00

Thread and tolerance tables

Thread table

Table with all standard international thread indications: metric, BSW, Gas, BSF, Pg, BA, UNC, UNF, UNEF, EG-M and EG-MF.

Tolerance table

Table compromising all tolerances and fits according ISO 286-2, up to 500 mm (table with over 6400 pairs of tolerance values for internal and external measurements).

Conversion table mm/inch

For converting from mm to inch and from inch to mm.



835.162
835.163
835.164

Item No.	Description	Price EUR
835.162	Thread table	56.00
835.163	Tolerance table	56.00
835.164	Conversion table mm/inch	56.00

C03.246.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital depth micrometers IP65

Digital depth micrometers with interchangeable, spherical rods or flat rods. With the flat rods mainly flat and spherical surfaces can be measured very accurately. The spherical rods are especially suitable for beveled and hollow surfaces. The high accuracy of the rods makes resetting after exchanging the rods unnecessary. Two models with different base lengths available.

- Measuring range: 0 - 300 mm.
- Resolution: 0.001 mm.
- mm/inch conversion.
- ABS/INC switchable.
- Automatic switch-off.
- Preset.
- Measuring rods: ø4.5 mm.
- Locking screw.
- Protection: IP65.
- Power supply: 1 battery type V357.



909.765

PRICE

Model with spherical rods especially for hollow and beveled surfaces

Item No.	Price EUR	Item No.	Price EUR	Measuring range/mm	Accuracy mm	Number of rods
Base 63 mm:		**Base 101.5 mm:**				
909.753	156.00	909.759	156.00	0 - 25	±0.005	1
909.754	163.00	909.760	163.00	0 - 50	±0.005	2
909.755	178.00	909.761	178.00	0 - 100	±0.006	4
909.756	192.00	909.762	192.00	0 - 150	±0.007	6
909.757	207.00	909.763	207.00	0 - 200	±0.008	8
909.758	243.00	909.764	243.00	0 - 300	±0.009	12

Model with flat rods especially for flat and spherical surfaces

Item No.	Price EUR	Item No.	Price EUR	Measuring range/mm	Accuracy mm	Number of rods
Base 63 mm:		**Base 101.5 mm:**				
909.765	156.00	909.771	156.00	0 - 25	±0.005	1
909.766	163.00	909.772	163.00	0 - 50	±0.005	2
909.767	178.00	909.773	178.00	0 - 100	±0.006	4
909.768	192.00	909.774	192.00	0 - 150	±0.007	6
909.769	207.00	909.775	207.00	0 - 200	±0.008	8
909.770	243.00	909.776	243.00	0 - 300	±0.009	12

Option

Item No.	Description	Price EUR
836.535	Spare battery	0.80

Schut

C02.280.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Depth micrometers

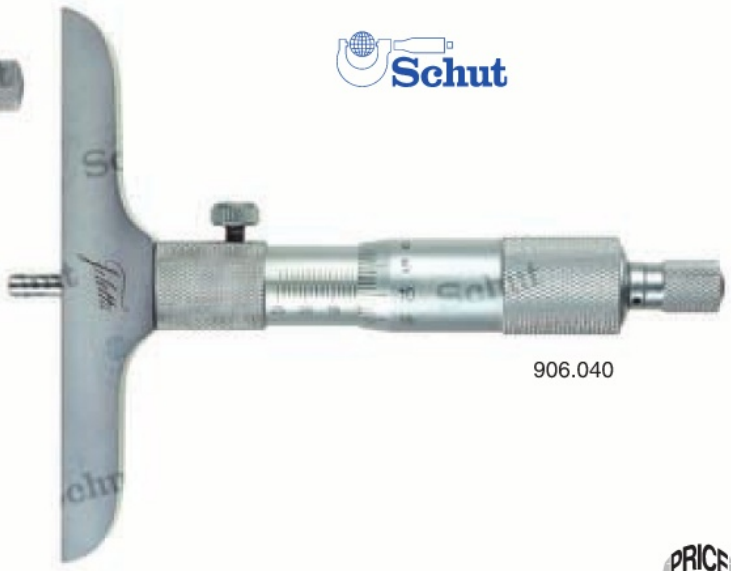
Depth micrometers with interchangeable, spherical or flat rods. With the flat rods mainly flat and spherical surfaces can be measured very accurately. The spherical rods are especially suitable for beveled and hollow surfaces. The high accuracy of the rods makes recalibration after exchanging the rods unnecessary. Two models with different base lengths available.

- Measuring range: 0 - 300 mm.
- Graduation: 0.01 mm.
- Measuring rods: ø4.5 mm.
- Locking screw.



906.970





906.040

PRICE

Model with spherical rods especially for hollow and beveled surfaces

Item No.	Price EUR	Item No.	Price EUR	Measuring range/mm	Accuracy mm	Number of rods
Base 63 mm:		**Base 101.5 mm:**				
906.964	45.00	906.040	45.00	0 - 25	±0.005	1
906.965	54.00	906.039	54.00	0 - 50	±0.005	2
906.966	68.00	906.041	68.00	0 - 100	±0.006	4
906.967	88.00	906.042	88.00	0 - 150	±0.007	6
906.968	127.00	906.043	127.00	0 - 200	±0.008	8
906.969	176.00	906.044	176.00	0 - 300	±0.009	12

Model with flat rods especially for flat and spherical surfaces

Item No.	Price EUR	Item No.	Price EUR	Measuring range/mm	Accuracy mm	Number of rods
Base 63 mm:		**Base 101.5 mm:**				
906.970	64.00	906.976	64.00	0 - 25	±0.005	1
906.971	76.00	906.977	76.00	0 - 50	±0.005	2
906.972	106.00	906.978	106.00	0 - 100	±0.006	4
906.973	127.00	906.979	127.00	0 - 150	±0.007	6
906.974	157.00	906.980	157.00	0 - 200	±0.008	8
906.975	206.00	906.981	206.00	0 - 300	±0.009	12

C02.275.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo depth micrometers

- Measuring range: 0 - 300 mm.
- Analog: graduation 0.01 mm, digital: resolution 0.001 mm.
- Accuracy micrometer: ±0.003 mm (0 - 25 mm).
- Increment of measuring rods: 25 mm.
- Length tolerance measuring rods: ±0.004 mm (0 - 150 mm) ±0.006 mm (0 - 300 mm).
- Hardened steel measuring rods: ø4 mm.
- Conforms to factory standard.
- Delivery in a plastic case with adjustment tool.

Digital (Mitutoyo Digimatic)

- ABS/INC switchable.
- Digimatic data output.
- Reset/preset.
- Hold function.
- Power supply: 1 battery type V357.



329.250



128.101



Item No.	Measuring range/mm	Base *l* x *w*/mm	Number of rods	Price EUR
Mitutoyo analog depth micrometers:				
128.101	0 - 25	63.5 x 16	1	170.00
128.102	0 - 25	101.6 x 16	1	211.00
129.109	0 - 50	63.5 x 16	2	198.00
129.113	0 - 50	101.6 x 16	2	232.00
129.110	0 - 75	63.5 x 16	3	210.00
129.114	0 - 75	101.6 x 16	3	247.00
129.111	0 - 100	63.5 x 16	4	261.00
129.115	0 - 100	101.6 x 16	4	287.00
129.112	0 - 150	63.5 x 16	6	361.00
129.116	0 - 150	101.6 x 16	6	374.00
129.152	0 - 300	63.5 x 16	12	546.00
129.153	0 - 300	101.6 x 16	12	572.00
Mitutoyo Digimatic digital depth micrometers:				
329.250	0 - 150	101.6 x 16	6	912.00
329.251	0 - 300	101.6 x 16	12	1,175.00
Option:				
836.535	Spare battery			0.80

Data cables Digimatic, USB Input Tool Direct, U-WAVE available on request.

C02.233.EN.20230516

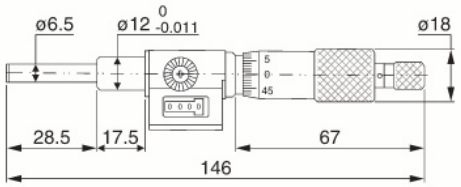
© 2023, Schut Geometrische Meettechniek bv

Micrometer head with counter

Micrometer head with an easy read-out at 0.01 mm by means of the counter mechanism.

- Measuring range: 0 - 25 mm.
- Resolution: 0.01 mm.
- Accuracy: ±0.003 mm.
- Numerical counter adjustable.
- Rotating spindle: ø6.5 mm.
- Tungsten carbide measuring face.
- Delivery with adjustment tool.





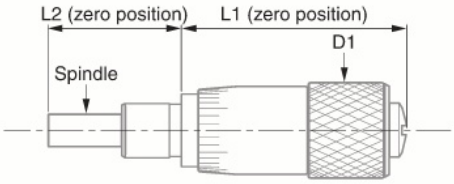
Item No.	Measuring range/mm	Spindle ø/mm	Price EUR
906.543	0 - 25	6.5	33.30

Micrometer heads

- Measuring range: 0 - 25 mm.
- Graduation: 0.01 mm or vernier 0.002 mm.



906.072





906.070

Item No.	Measuring range/mm	Graduation mm	Accuracy mm	Spindle ø/mm	Dimensions/mm clamping	D1	L1	L2	Price EUR
Without friction thimble, steel measuring face:									
906.070	0 - 6.5	0.01	±0.005	3.5 (flat)	ø 6 x 6	ø10	23	14	16.00
906.074	0 - 6.5	0.01	±0.005	3.5 (spherical)	ø 6 x 6	ø10	23	14	16.00
906.071	0 - 13	0.01	±0.004	5.0 (flat)	ø 9.5 x 9.5	ø14	33	26	17.60
Friction thimble with spring click in measuring thimble, tungsten carbide measuring face:									
906.072	0 - 25	0.01	±0.003	6.5 (flat)	ø12 x17	ø19	65	46	18.50
906.073	0 - 25	0.002	±0.003	6.5 (flat)	ø12 x17	ø19	65	46	18.50

C03.277.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital micrometer heads

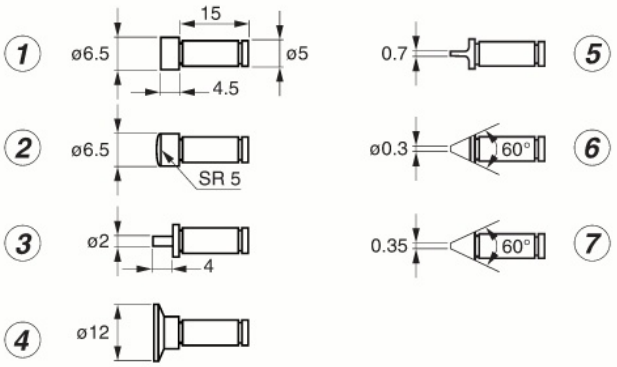
Several digital micrometer heads with different possibilities.

- Measuring range: 0 - 50 mm.
- Resolution: 0.001 mm.
- Accuracy: ±0.003 mm (909.900/901: ±0.005 mm).
- mm/inch conversion.
- ABS/INC switchable.
- On/off switch.
- Automatic switch-off.
- Memory absolute measuring value.
- Preset for ABS measurement.
- Friction thimble.
- Power supply: 1 battery type V357.



Item No.	Measuring range/mm	Dimensions/mm spindle	clamping	L1	L2	Description measuring faces	Price EUR
With IP65 protection:							
909.897	0 - 25	ø6.5	ø12 x 17.5	115	46	flat, tungsten carbide measuring face	109.00
909.898	0 - 25	ø6.5	ø12 x 17.5	115	46	spherical	109.00
909.899	0 - 25	ø6.5	ø12 x 17.5	116	56	flat, non-rotating tip	111.00
909.900	0 - 50	ø7.5	ø12 x 35.5	140	89	flat, tungsten carbide measuring face	174.00
909.901	0 - 50	ø7.5	ø12 x 35.5	140	89	spherical	174.00
With non-rotating spindle:							
909.902	0 - 25	ø7.5	ø12 x 10	124	39	flat, tungsten carbide measuring face	142.00
909.903	0 - 25	ø7.5	ø12 x 10	123	39	interchangeable measuring inserts	145.00
Option:							
836.535	Spare battery						0.80

Interchangeable measuring inserts for 909.903



No.	Item No.	Description measuring faces	Price EUR
Measuring inserts, per pair:			
①	906.788	flat	15.90
②	906.789	spherical	19.00
③	906.790	small	28.60
④	906.791	disc	28.60
⑤	906.792	knife/flat	38.00
⑥	906.793	point	28.60
⑦	906.794	knife	48.00
	906.795	Set of 7 pairs	161.00

C03.317.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo micrometer heads

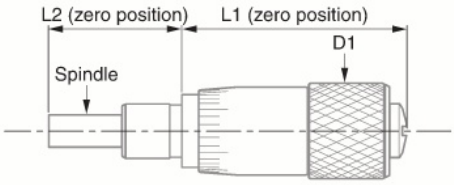
- Measuring range: 0 - 25 mm.
- Graduation: 0.01 or 0.02 mm.
- Clamping stem: with or without clamp nut.
- Conforms to factory standard.
- Many models available, like:
  - with reversed reading,
  - with rotating or non-rotating spindle,
  - with spindle lock,
  - with large thimble diameter, for easy reading.


148.216


148.103


149.131


149.183



Item No.	Measuring range/mm	Graduation mm	Accuracy mm	Clamp nut	Dimensions/mm spindle	D1	L1	L2	Price EUR
For general applications:									
148.104	0 - 13	0.01	±0.002	no	ø5	ø13	31.5	27	61.00
148.103	0 - 13	0.01	±0.002	yes	ø5	ø13	31.5	27	66.00
For general applications with spherical measuring face:									
148.801	0 - 13	0.01	±0.002	no	ø5	ø13	31.5	27	62.00
148.802	0 - 13	0.01	±0.002	yes	ø5	ø13	31.5	27	67.00
Ultra-small micrometer heads with spherical measuring face:									
148.215	0 - 5	0.02	±0.005	no	ø2	ø 6	20.5	11.5	117.00
148.216	0 - 5	0.02	±0.005	yes	ø2	ø 6	20.5	11.5	121.00
148.205	0 - 6.5	0.01	±0.005	no	ø3.5	ø 9	21.7	15	61.00
148.207	0 - 6.5	0.01	±0.005	yes	ø3.5	ø 9	21.7	15	65.00
With lapped tungsten carbide measuring face:									
149.132	0 - 15	0.01	±0.002	no	ø6.35	ø15	43.5	32	70.00
149.131	0 - 15	0.01	±0.002	yes	ø6.35	ø15	43.5	32	73.00
With lapped tungsten carbide spherical measuring face:									
149.801	0 - 15	0.01	±0.002	no	ø6.35	ø15	43.5	32	78.00
149.802	0 - 15	0.01	±0.002	yes	ø6.35	ø15	43.5	32	81.00
With lapped tungsten carbide measuring face, with spindle lock:									
149.183	0 - 15	0.01	±0.002	no	ø6.35	ø15	49	26.5	83.00
149.184	0 - 15	0.01	±0.002	yes	ø6.35	ø15	49	26.5	86.00
With lapped tungsten carbide measuring face, with ratchet:									
150.192	0 - 25	0.01	±0.002	no	ø6.35	ø18	67	42	70.00
150.191	0 - 25	0.01	±0.002	yes	ø6.35	ø18	67	42	82.00
With lapped tungsten carbide spherical measuring face, with ratchet:									
150.801	0 - 25	0.01	±0.002	no	ø6.35	ø18	67	42	83.00
150.802	0 - 25	0.01	±0.002	yes	ø6.35	ø18	67	42	90.00

C03.308.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo Digimatic micrometer heads IP65

These digital micrometer heads have an ergonomic design and a high protection degree against water jets (IP65).

- Measuring range: 0 - 25 mm.
- Resolution: 0.001 mm.
- ABS/INC switchable.
- Digimatic data output.
- Reset/preset.
- Hold function.
- Non-rotating spindle (only 350.261).
- Protection: IP65.
- Resistant to workshop conditions.
- Conforms to factory standard.
- Power supply: 1 battery type V357.





Data cables Digimatic, USB Input Tool Direct, U-WAVE available on request.

Item No.	Measuring range/mm	Accuracy/mm	Spindle ø/mm	Clamp nut	Price EUR
350.261	0 - 25	±0.002	6.35	no	545.00
350.271	0 - 25	±0.002	6.35	no	505.00
350.272	0 - 25	±0.002	6.35	yes	518.00
Option:					
836.535	Spare battery				0.80

Mitutoyo Digimatic micrometer head

Digital micrometer head with non-rotating spindle for integration into machinery and measuring systems such as XY measuring tables of microscopes and projectors. The display and operating unit is rotatable over 330° and guarantees an ideal read-out in any position.

- Measuring range: 0 - 50 mm.
- Resolution: 0.001 mm.
- ABS/INC switchable.
- LCD display 330° rotatable.
- Digimatic data output.
- On/off switch.
- Reset/preset.
- Clamping stem without clamp nut.
- Non-rotating spindle.
- Reversible measuring direction.
- Lapped tungsten carbide measuring face: ø8 mm.
- Conforms to factory standard.
- Power supply: 1 battery type V357.



Data cables Digimatic, USB Input Tool Direct, U-WAVE available on request.

Item No.	Measuring range/mm	Accuracy mm	Spindle ø/mm	Price EUR
164.163	0 - 50	±0.003	8	927.00
Option:				
836.535	Spare battery			0.80

C03.288.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Internal micrometers / Internal & external measuring instruments



Accuracy of internal micrometers according DIN 863-4

Measuring range (mm)	Max. permissible errors (µm)
3 - 10	4
10 - 50	4
50 - 100	5
100 - 150	6
150 - 200	7
200 - 250	8
250 - 300	9

C04.001.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Three-point internal micrometers

Three-point internal micrometers for quick and accurate measurement of internal dimensions, within a large measuring range.

- Measuring range: ø3.5 - 300 mm.
- Graduation: 0.001 mm (ø 3.5 - 12 mm),
  0.005 mm (ø12 - 300 mm).
- Self-centering.
- Tungsten carbide measuring faces.
- Sets are delivered incl. setting rings and extension (836.730 without extension).
- Setting rings are conform to factory standard.
- Delivery in a wooden case.



836.708



836.718



836.745



Measuring head (measuring range) ø3.5 - 50 mm



ø50 - 100 mm



ø100 - 300 mm



ø100 - 300 mm

PRICE

C04.202.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Three-point internal micrometers (continued)

Item No.	Measuring range/mm	Accuracy mm	Length L/mm	Length A/mm	Price EUR
836.700	ø 3.5 - 4	±0.005	19	1.5	152.00
836.701	ø 4.0 - 4.5	±0.005	19	1.5	152.00
836.702	ø 4.5 - 5.5	±0.005	19	1.5	152.00
836.703	ø 5.5 - 6.5	±0.005	19	1.5	152.00
836.704	ø 6 - 8	±0.005	52	1.5	152.00
836.705	ø 8 - 10	±0.005	52	1.5	152.00
836.706	ø 10 - 12	±0.005	52	1.5	152.00
836.707	ø 12 - 16	±0.005	71	1.5	152.00
836.708	ø 16 - 20	±0.005	71	1.5	152.00
836.709	ø 20 - 25	±0.005	82	1.5	152.00
836.710	ø 25 - 30	±0.005	82	1.5	152.00
836.711	ø 30 - 35	±0.005	84	1.5	152.00
836.712	ø 35 - 40	±0.005	84	1.5	152.00
836.713	ø 40 - 50	±0.006	100	1.5	178.00
836.714	ø 50 - 60	±0.006	100	1.5	178.00
836.715	ø 60 - 70	±0.006	100	1.5	178.00
836.716	ø 70 - 80	±0.006	100	1.5	178.00
836.717	ø 80 - 90	±0.006	100	1.5	178.00
836.718	ø 90 - 100	±0.006	100	1.5	178.00
836.719	ø 100 - 125	±0.008	110	17.5	305.00
836.720	ø 125 - 150	±0.008	110	17.5	305.00
836.721	ø 150 - 175	±0.008	110	17.5	305.00
836.722	ø 175 - 200	±0.008	110	17.5	305.00
836.723	ø 200 - 225	±0.012	110	17.5	381.00
836.724	ø 225 - 250	±0.012	110	17.5	381.00
836.725	ø 250 - 275	±0.012	110	17.5	381.00
836.726	ø 275 - 300	±0.012	110	17.5	381.00

Extensions

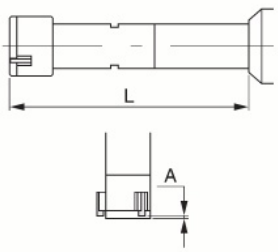
Item No.	Extension mm	For measuring range/mm	Price EUR
836.780	100	ø 6 - 12	72.00
836.782	150	ø 12 - 20	72.00
836.784	150	ø 20 - 40	72.00
836.786	150	ø 40 - 100	72.00



836.784



Sets



Item No.	Measuring range/mm	Setting rings mm	Extension mm	Number of instruments	Price EUR
836.730*	ø 3.5 - 6.5	ø4, 5.5	–	4	635.00
836.735	ø 6 - 12	ø8, 10	100	3	407.00
836.740	ø 12 - 20	ø16	150	2	356.00
836.745	ø 20 - 40	ø25, 35	150	4	635.00
836.750	ø 40 - 100	ø50, 70, 90	150	6	1,017.00

* Without extension.

C04.324.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Three-point internal micrometers

Three-point internal micrometers, with a manufacturer measuring report, for accurately measuring (blind) bores.

- Measuring range: ø6 - 300 mm.
- Self-centering.
- Tungsten carbide measuring faces (measuring range ø6 - 12 mm: hardened steel).
- Separate instruments within measuring range ø6 - 100 mm and the sets are delivered incl. setting ring(s) and extension.
- Setting rings are conform to factory standard.
- To ø100 mm: implementation for blind bores. From ø100 mm: implementation for through holes or blind bores.
- Delivery in an aluminum case (ø6 - 40 mm) or an aluminum carrying case (ø40 - 300 mm and sets) with a manufacturer measuring report.

Analog

- Graduation: 0.001 mm (ø 6 - 12 mm), 0.005 mm (ø12 - 300 mm).

Digital

- Resolution: 0.001 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Preset.
- Hold function.
- Protection: IP54.
- Power supply: 1 battery type V357.



909.811



909.832



Measuring head (measuring range) ø6 - 50 mm



ø50 - 100 mm



ø100 - 175 mm



ø175 - 300 mm



For blind bores



For through holes

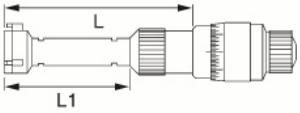
Schut

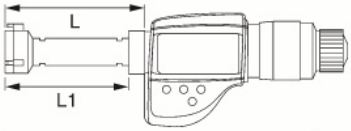
PRICE

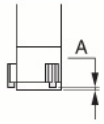
C04.318.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Three-point internal micrometers (continued)







Item No.	Price EUR	Item No.	Price EUR	Measuring range/mm	Accuracy mm	L/mm	Length L/mm	A/mm
Analog (blind bores):		**Digital (blind bores):**				**Analog:** L1 L	**Digital:** L1 L	
909.807	267.00	909.828	407.00	ø 6- 8	±0.004	27 –	43 –	1
909.808	267.00	909.829	407.00	ø 8- 10	±0.004	50 –	43 –	1
909.809	267.00	909.830	407.00	ø 10- 12	±0.004	50 –	43 –	1
909.810	185.00	909.831	394.00	ø 12- 16	±0.004	50 –	45 –	0.4
909.811	185.00	909.832	394.00	ø 16- 20	±0.004	50 –	45 –	0.4
909.812	261.00	909.833	411.00	ø 20- 25	±0.004	– 80	53 –	0.4
909.813	261.00	909.834	411.00	ø 25- 30	±0.004	– 80	53 –	0.4
909.814	288.00	909.835	460.00	ø 30- 40	±0.004	– 90	– 80	0.4
909.815	333.00	909.836	460.00	ø 40- 50	±0.005	– 90	– 80	0.4
909.816	352.00	909.837	489.00	ø 50- 63	±0.005	– 100	– 80	0.5
909.817	378.00	909.838	518.00	ø 62- 75	±0.005	– 100	– 80	0.5
909.818	395.00	909.839	538.00	ø 75- 88	±0.005	– 100	– 80	0.5
909.819	414.00	909.840	563.00	ø 87- 100	±0.005	– 100	– 80	0.5
910.150	620.00	910.158	713.00	ø 100- 125	±0.008	– 140	– 140	0.5
910.151	620.00	910.159	752.00	ø 125- 150	±0.008	– 140	– 140	0.5
910.152	764.00	910.160	845.00	ø 150- 175	±0.008	– 140	– 140	0.5
910.153	781.00	910.161	891.00	ø 175- 200	±0.008	– 140	– 140	0.5
910.154	987.00	910.162	1,080.00	ø 200- 225	±0.008	– 140	– 140	0.5
910.155	1,018.00	910.163	1,145.00	ø 225- 250	±0.008	– 140	– 140	0.5
910.156	1,171.00	910.164	1,307.00	ø 250- 275	±0.008	– 140	– 140	0.5
910.157	1,400.00	910.165	1,546.00	ø 275- 300	±0.008	– 140	– 140	0.5
Analog (through holes):		**Digital (through holes):**				**Analog:** L1 L	**Digital:** L1 L	
909.820	503.00	909.841	574.00	ø 100- 125	±0.008	– 140	– 140	20
909.821	535.00	909.842	660.00	ø 125- 150	±0.008	– 140	– 140	20
909.822	657.00	909.843	747.00	ø 150- 175	±0.008	– 140	– 140	20
909.823	674.00	909.844	789.00	ø 175- 200	±0.008	– 140	– 140	20
909.824	872.00	909.845	982.00	ø 200- 225	±0.008	– 140	– 140	20
909.825	953.00	909.846	1,069.00	ø 225- 250	±0.008	– 140	– 140	20
909.826	1,096.00	909.847	1,222.00	ø 250- 275	±0.008	– 140	– 140	20
909.827	1,310.00	909.848	1,451.00	ø 275- 300	±0.008	– 140	– 140	20

Sets

Item No.	Price EUR	Item No.	Price EUR	Measuring range/mm	Setting rings ø/mm	Extension mm	Number of instruments
Analog:		**Digital:**					
909.849	748.00	909.853	1,112.00	ø 6- 12	8, 10	50	3
909.850	337.00	909.854	634.00	ø 12- 20	16	100	2
909.851	971.00	909.855	1,512.00	ø 20- 50	25, 40	150	4
909.852	1,281.00	909.856	1,753.00	ø 50- 100	62, 87	150	4

Options

Item No.	Description	Price EUR
836.535	Spare battery	0.80
For meas. range ø 100 - 300 mm:		
909.857	Extension with length 150 mm	87.00



909.850

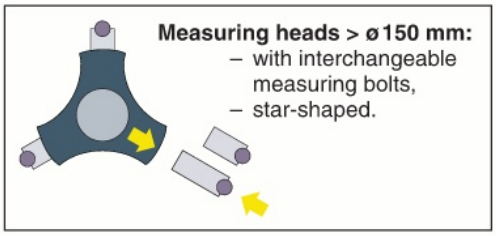
C04.323.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Three-point internal micrometers

Three-point internal micrometers for accurately measuring (blind) bores.

- Measuring range: ø6 - 300 mm.
- Graduation: 0.001 mm (ø 6 - 12 mm), 0.005 mm (ø12 - 300 mm).
- Self-centering.
- Tungsten carbide measuring faces.
- Interchangeable measuring bolts from measuring range ø150 - 175 mm.
- Delivery in an aluminum case (ø6 - 40 mm) or an aluminum carrying case (ø40 - 300 mm and sets) with extension 150 mm (ø6 - 12 mm: 100 mm).
- Separate instruments within measuring range ø6 - 100 mm and the sets are delivered incl. setting ring(s).
- Setting rings are conform to factory standard.



Measuring heads > ø150 mm:
- with interchangeable measuring bolts,
- star-shaped.



908.654



908.662



Measuring head (measuring range) ø6 - 50 mm



ø50 - 100 mm



ø100 - 300 mm



For blind bores



C04.203.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Three-point internal micrometers (continued)

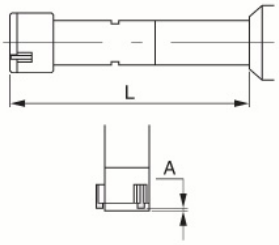


908.672

Per piece

Item No.	Measuring range/mm	Setting ring ø/mm	Accuracy mm	Length L/mm	Length A/mm	Price EUR
908.650	ø 6 - 8	6	±0.004	54.5	0.7	220.00
908.651	ø 8 - 10	8	±0.004	54.5	0.7	220.00
908.652	ø 10 - 12	10	±0.004	54.5	0.7	220.00
908.653	ø 12 - 16	16	±0.004	80	0.7	148.00
908.654	ø 16 - 20	16	±0.004	80	0.7	148.00
908.655	ø 20 - 25	25	±0.004	90	0.7	209.00
908.656	ø 25 - 30	25	±0.004	90	0.7	209.00
908.657	ø 30 - 40	40	±0.004	97	0.7	230.00
908.658	ø 40 - 50	40	±0.005	97	0.7	267.00
908.659	ø 50 - 63	62	±0.005	114	0.7	282.00
908.660	ø 62 - 75	62	±0.005	114	0.7	302.00
908.661	ø 75 - 88	87	±0.005	114	0.7	316.00
908.662	ø 87 - 100	87	±0.005	114	0.7	331.00
908.663	ø 100 - 125	–	±0.005	145	0.7	366.00
908.664	ø 125 - 150	–	±0.005	145	0.7	439.00
908.665	ø 150 - 175	–	±0.005	145	0.7	526.00
908.666	ø 175 - 200	–	±0.005	145	0.7	635.00
908.667	ø 200 - 225	–	±0.007	145	0.7	759.00
908.668	ø 225 - 250	–	±0.007	145	0.7	911.00
908.669	ø 250 - 275	–	±0.007	145	0.7	1,096.00
908.670	ø 275 - 300	–	±0.007	145	0.7	1,313.00

Sets



Item No.	Measuring range/mm	Setting rings ø/mm	Extension mm	Number of instruments	Price EUR
908.671	ø 6 - 12	6, 8, 10	100	3	600.00
908.672	ø 12 - 20	16	150	2	270.00
908.673	ø 20 - 50	25, 40	150	4	778.00
908.674	ø 50 - 100	62, 87	150	4	1,025.00

C04.325.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital three-point internal micrometers IP65

Digital three-point internal micrometers with a resolution of 0.001 mm for accurately measuring (blind) bores. These micrometers have several functions, and combined with the accurate read-out this results in a favourable price-performance ratio.

- Measuring range: ø6 - 300 mm.
- Resolution: 0.001 mm.
- mm/inch conversion.
- ABS/INC switchable.
- On/off switch.
- Automatic switch-off.
- Reset/preset.
- Self-centering.
- Tungsten carbide measuring faces.
- Complete measuring range without changing the measuring bolts.
- Protection: IP65.
- Delivery in an aluminum case (ø6 - 40 mm) or an aluminum carrying case (ø40 - 300 mm and sets) with extension 150 mm (ø6 - 12 mm: 100 mm).
- Separate instruments within measuring range ø6 - 100 mm and the sets are delivered incl. setting ring(s) (conforms to factory standard).
- Power supply: 1 battery type V357.



910.125



910.119


Measuring head (measuring range) ø6 - 50 mm


ø50 - 100 mm


ø100 - 300 mm


For blind bores

PRICE

C04.322.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital three-point internal micrometers IP65 (continued)



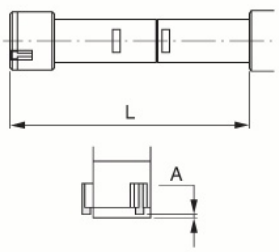
910.134

Per piece

Item No.	Measuring range/mm	Setting ring ø/mm	Accuracy mm	Length L/mm	Length A/mm	Price EUR
910.113	ø 6 - 8	6	±0.004	54.5	1.5	356.00
910.114	ø 8 - 10	8	±0.004	54.5	1.5	356.00
910.115	ø 10 - 12	10	±0.004	54.5	1.5	356.00
910.116	ø 12 - 16	16	±0.004	80	0.7	345.00
910.117	ø 16 - 20	16	±0.004	80	0.7	345.00
910.118	ø 20 - 25	25	±0.004	90	0.7	359.00
910.119	ø 25 - 30	25	±0.004	90	0.7	359.00
910.120	ø 30 - 40	40	±0.004	97	0.7	401.00
910.121	ø 40 - 50	40	±0.005	97	0.7	401.00
910.122	ø 50 - 63	62	±0.005	114	0.7	425.00
910.123	ø 62 - 75	62	±0.005	114	0.7	449.00
910.124	ø 75 - 88	87	±0.005	114	0.7	466.00
910.125	ø 87 - 100	87	±0.005	114	0.7	487.00
910.126	ø 100 - 125	–	±0.005	150	0.7	496.00
910.127	ø 125 - 150	–	±0.005	150	0.7	569.00
910.128	ø 150 - 175	–	±0.005	150	0.7	656.00
910.129	ø 175 - 200	–	±0.005	150	0.7	765.00
910.130	ø 200 - 225	–	±0.007	150	0.7	888.00
910.131	ø 225 - 250	–	±0.007	150	0.7	1,040.00
910.132	ø 250 - 275	–	±0.007	150	0.7	1,224.00
910.133	ø 275 - 300	–	±0.007	150	0.7	1,441.00

Option:

836.535 Spare battery 0.80



Sets

Item No.	Measuring range/mm	Setting rings ø/mm	Extension mm	Number of instruments	Price EUR
910.134	ø 6 - 12	6, 8, 10	100	3	926.00
910.135	ø 12 - 20	16	150	2	628.00
910.136	ø 20 - 50	25, 40	150	4	1,326.00
910.137	ø 50 - 100	62, 87	150	4	1,529.00

C04.326.EN.20230516

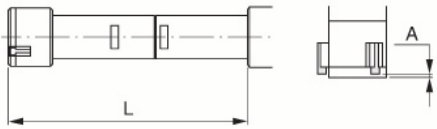
© 2023, Schut Geometrische Meettechniek bv

Digital three-point internal micrometers

Digital three-point internal micrometers with a large measuring range. With optional extensions, also for measuring in deep (blind) bores.

- Measuring range: ø50 - 300 mm.
- Max. measuring depth: 1100 mm.
- Resolution: 0.001 mm.
- mm/inch conversion.
- ABS/INC switchable.
- On/off switch.
- Automatic switch-off.
- Reset/preset.
- Self-centering.
- Tungsten carbide measuring faces.
- Protection: IP54.
- Delivery in an aluminum carrying case with extension 150 mm.
- Separate instruments within measuring range ø50 - 100 mm and the sets are delivered incl. setting ring(s).
- Setting rings are conform to factory standard.
- Power supply: 1 battery type V357.







Extensions

Item No.	Extension mm	Price EUR
906.227	150	32.60
906.228	500	197.00
906.229	1000	591.00

Item No.	Measuring range/mm	Setting ring ø/mm	Accuracy mm	Length L/mm	Length A/mm	Price EUR
906.904	ø 50 - 70	50	±0.004	107	0.5	368.00
906.905	ø 70 - 100	70	±0.004	107	0.5	494.00
906.906	ø100 - 150	–	±0.005	107	0.5	814.00
906.907	ø150 - 250	–	±0.007	107	0.5	1,669.00
906.908	ø200 - 300	–	±0.007	107	0.5	2,340.00

Sets

Item No.	Measuring range/mm	Setting ring ø/mm	Number of instruments	Price EUR
906.909	ø 50 - 100	70	2	862.00
906.910	ø100 - 250	150	2	2,480.00

Option

Item No.	Description	Price EUR
836.535	Spare battery	0.80

C04.278.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital three-point internal micrometers up to 1000 mm

Digital three-point internal micrometers with a large measuring range. With optional extensions, also for measuring in deep bores.

- Measuring range: ø200 - 1000 mm.
- Resolution: 0.001 mm.
- mm/inch conversion.
- ABS/INC switchable.
- On/off switch.
- Automatic switch-off.
- Reset/preset.
- Self-centering.
- Tungsten carbide measuring faces.
- Protection: IP54.
- Delivered incl. setting ring.
- Power supply: 1 battery type V357.



907.787

With interchangeable measuring bolts

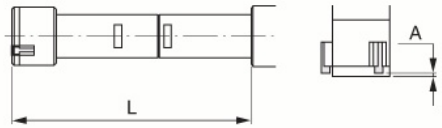
The measuring range is extra large because of the interchangeable measuring bolts. The high accuracy of the measuring bolts enables exchanging without recalibrating the read-out.

- Max. measuring depth:
  907.787: 750 mm,
  907.788: 1750 mm.
- Accuracy:
  $\pm(1+0.02L)$ µm (L in mm).
- Delivery in a wooden case with extensions and setting ring.

Schut

PRICE

Item No.	Measuring range/mm	Setting ring ø/mm	Length L/mm	Length A/mm	Extensions mm	Price EUR
907.787	ø200 - 500	200	105	0.5	150, 500	5,810.00
907.788	ø200 - 1000	200	105	0.5	150, 500, 1000	6,840.00



Option

Item No.	Description	Price EUR
836.535	Spare battery	0.80

Extensions

Item No.	Extension mm	Price EUR
906.227	150	32.60
906.228	500	197.00
906.229	1000	591.00

C04.320.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

TESA Imicro three-point internal micrometers

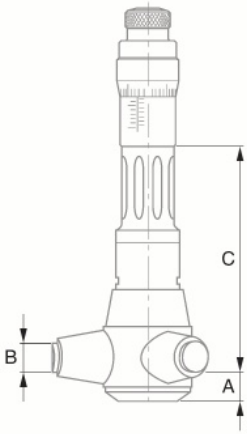
The Imicro measuring system has a unique combination of a threaded cone and three measuring arms. This makes the TESA Imicro a highly accurate measuring instrument.

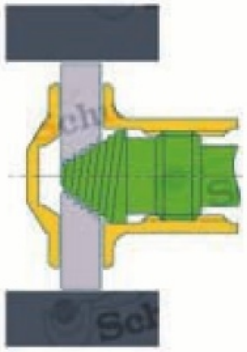
- Measuring range: ø3.5 - 300 mm.
- Graduation: 0.001 mm (ø 3.5 - 12 mm),
  0.005 mm (ø 11 - 100 mm),
  0.01 mm (ø100 - 300 mm).
- Measuring faces:
  ø 3.5 - 12 mm: hardened steel,
  ø 11 - 100 mm: titanium nitride (TiN),
  ø100 - 300 mm: tungsten carbide.
- DIN 863 T4.
- Delivery in a plastic case with a manufacturer measuring report.



779.542

Item No.	Measuring range mm	Accuracy mm	Repeat-ability mm	Length/mm A	B	C	Price EUR
779.571	ø 3.5 - 4	±0.004	0.004	2	1.5	20	959.00
779.572	ø 4 - 4.5	±0.004	0.004	2	1.5	20	959.00
779.573	ø 4.5 - 5.5	±0.004	0.004	2	1.5	25	963.00
779.574	ø 5.5 - 6.5	±0.004	0.004	2	1.5	25	963.00
779.481	ø 6 - 8	±0.004	0.004	2.5	2.5	52	481.00
779.482	ø 8 - 10	±0.004	0.004	2.5	2.5	52	484.00
779.483	ø 10 - 12	±0.004	0.004	2.5	2.5	52	490.00
779.497	ø 11 - 14	±0.004	0.004	3.5	4	77	534.00
779.498	ø 14 - 17	±0.004	0.004	3.5	4	77	538.00
779.499	ø 17 - 20	±0.004	0.004	3.5	4	77	544.00
779.515	ø 20 - 25	±0.004	0.004	7	7	78	605.00
779.516	ø 25 - 30	±0.004	0.004	7	7	78	614.00
779.517	ø 30 - 35	±0.004	0.004	7	7	78	623.00
779.518	ø 35 - 40	±0.004	0.004	7	7	78	634.00
779.539	ø 40 - 50	±0.004	0.004	11	12	84	724.00
779.540	ø 50 - 60	±0.005	0.005	11	12	84	735.00
779.541	ø 60 - 70	±0.005	0.005	11	12	84	748.00
779.542	ø 70 - 80	±0.005	0.005	11	12	84	758.00
779.543	ø 80 - 90	±0.005	0.005	11	12	84	772.00
779.544	ø 90 - 100	±0.005	0.005	11	12	84	801.00
779.553	ø100 - 125	±0.006	0.006	26	18	81	1,427.00
779.554	ø125 - 150	±0.006	0.006	26	18	81	1,435.00
779.555	ø150 - 175	±0.007	0.007	26	18	81	1,442.00
779.556	ø175 - 200	±0.007	0.007	26	18	81	1,486.00
779.562	ø200 - 225	±0.008	0.008	26	18	81	2,163.00
779.563	ø225 - 250	±0.008	0.008	26	18	81	2,187.00
779.564	ø250 - 275	±0.008	0.008	26	18	81	2,212.00
779.565	ø275 - 300	±0.008	0.008	26	18	81	2,248.00





The threaded cone prevents spindle errors (Abbe-comparator principle).

C04.204.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

TESA Imicro three-point internal micrometers in sets

- Measuring range: ø 3.5 - 200 mm.
- Graduation: 0.001 mm (ø 3.5 - 12 mm),
  0.005 mm (ø 11 - 100 mm),
  0.01 mm (ø 100 - 200 mm).
- Measuring faces:
  ø 3.5 - 12 mm: hardened steel,
  ø 11 - 100 mm: titanium nitride (TiN),
  ø 100 - 200 mm: tungsten carbide.
- Sets delivered in a plastic carrying case with a manufacturer measuring report incl. setting rings, extension, screw driver and adjustment tool.



779.538

Item No.	Measuring range/mm	Extension mm	Price EUR
779.570	ø 3.5 - 6.5	–	4,212.00
779.480	ø 6 - 12	100	1,798.00
779.496	ø 11 - 20	150	2,013.00
779.514	ø 20 - 40	150	2,781.00
779.538	ø 40 - 100	150	6,224.00
779.552	ø 100 - 200	150	8,403.00

TESA centering device



779.664

Item No.	For meas. range/mm	Price EUR
779.664	ø 40 - 100	2,516.00
779.681	ø 100 - 200	3,081.00

TESA Imicro extensions

TESA Imicro extensions for measuring in deep bores.



Imicro + extension + centering device

Item No.	Extension mm	For meas. range/mm	Price EUR
779.609	100	ø 6 - 12	98.00
779.623	150	ø 11 - 20	200.00
779.624	500	ø 11 - 20	988.00
779.625	150	ø 20 - 40	144.00
779.626	500	ø 20 - 40	1,450.00
779.627	1000	ø 20 - 40	1,660.00

Item No.	Extension mm	For meas. range/mm	Price EUR
779.628	150	ø 40 - 100	164.00
779.629	500	ø 40 - 100	1,770.00
779.630	1000	ø 40 - 100	2,320.00
779.631	150	ø 100 - 300	191.00
779.632	500	ø 100 - 300	1,150.00
779.633	1000	ø 100 - 300	1,782.00

C04.205.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

TESA Imicro digital *capa μ* three-point internal micrometers

These TESA Imicro internal micrometers combine the unique measuring cone, that prevents spindle errors, with the patented *capa μ* measuring system.

- Measuring range: ø3.5 - 300 mm.
- Resolution: 0.001 mm.
- mm/inch conversion.
- ABS/INC switchable.
- Opto-RS232C data output, bidirectional.
- Automatic switch-off.
- Reset/preset.
- Measuring faces:
  ø 3.5 - 12 mm: hardened steel,
  ø 11 - 100 mm: titanium nitride (TiN),
  ø100 - 300 mm: tungsten carbide.
- Protection: IP54.
  (When using data output: IP40.)
- DIN 863 T4.
- Delivery in a plastic case (ø3.5 - 40 mm) or a wooden case with a manufacturer measuring report.
- Sets delivered in a plastic carrying case with a manufacturer measuring report.
- Power supply: 1 battery type CR2032.
- Electronic measuring elements, several sets, individual measuring heads and extensions available.


782.562



782.543

Schut

Sets with individual measuring heads

Consist of 1 electronic measuring element with interchangeable measuring heads, setting rings and an extension (no extension for the 782.564).

Item No.	Measuring range/mm	Price EUR
782.564	ø 3.5 - 6.5	5,019.00
782.565	ø 6 - 12	2,567.00
782.566	ø 11 - 20	2,756.00
782.567	ø 20 - 40	3,604.00
782.568	ø 40 - 100	6,643.00
782.569	ø100 - 200	9,216.00

Extensions

Item No.	Extension mm	For measuring range/mm	Price EUR
779.609	100	ø 6 - 12	98.00
779.623	150	ø 11 - 20	200.00
779.625	150	ø 20 - 40	144.00
779.628	150	ø 40 - 100	164.00
779.631	150	ø100 - 200	191.00

Complete sets

Consist of all the instruments of the measuring range, setting rings and an extension (no extension for the 782.558).

Item No.	Measuring range/mm	Price EUR
782.558	ø 3.5 - 6.5	6,258.00
782.559	ø 6 - 12	3,801.00
782.560	ø 11 - 20	3,934.00
782.561	ø 20 - 40	5,352.00
782.562	ø 40 - 100	9,703.00
782.563	ø100 - 200	11,930.00

Option

Item No.	Description	Price EUR
495.157	Spare battery	0.40

Accessories for (wireless) data transfer available on request.

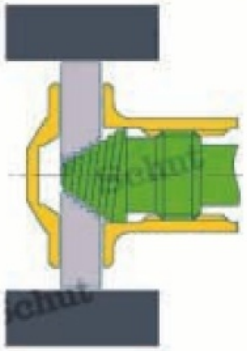
C04.206.EN.20230516

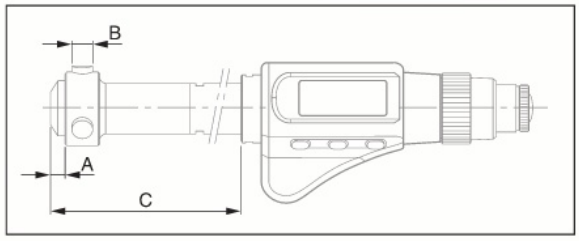
© 2023, Schut Geometrische Meettechniek bv

TESA Imicro digital three-point internal micrometers (continued)



The threaded cone prevents spindle errors (Abbe-comparator principle).





Complete instruments

Item No.	Measuring range/mm	Accuracy mm	Repeatability mm	Length/mm A	B	C	Price EUR
782.530	ø 3.5 - 4	±0.004	0.004	2	1.5	20	1,569.00
782.531	ø 4 - 4.5	±0.004	0.004	2	1.5	20	1,569.00
782.532	ø 4.5 - 5.5	±0.004	0.004	2	1.5	25	1,569.00
782.533	ø 5.5 - 6.5	±0.004	0.004	2	1.5	25	1,569.00
782.534	ø 6 - 8	±0.004	0.004	2.5	2.5	79	1,255.00
782.535	ø 8 - 10	±0.004	0.004	2.5	2.5	79	1,266.00
782.536	ø 10 - 12	±0.004	0.004	2.5	2.5	79	1,277.00
782.537	ø 11 - 14	±0.004	0.004	3.5	4	93	1,283.00
782.538	ø 14 - 17	±0.004	0.004	3.5	4	93	1,291.00
782.539	ø 17 - 20	±0.004	0.004	3.5	4	93	1,299.00
782.540	ø 20 - 25	±0.004	0.004	7	7	91	1,305.00
782.541	ø 25 - 30	±0.004	0.004	7	7	91	1,319.00
782.542	ø 30 - 35	±0.004	0.004	7	7	91	1,337.00
782.543	ø 35 - 40	±0.004	0.004	7	7	91	1,351.00
782.544	ø 40 - 50	±0.005	0.005	11	12	104	1,401.00
782.545	ø 50 - 60	±0.005	0.005	11	12	104	1,424.00
782.546	ø 60 - 70	±0.005	0.005	11	12	104	1,462.00
782.547	ø 70 - 80	±0.005	0.005	11	12	104	1,492.00
782.548	ø 80 - 90	±0.005	0.005	11	12	104	1,526.00
782.549	ø 90 - 100	±0.005	0.005	11	12	104	1,554.00
782.550	ø 100 - 125	±0.006	0.006	26	18	100	2,414.00
782.551	ø 125 - 150	±0.006	0.006	26	18	100	2,422.00
782.552	ø 150 - 175	±0.007	0.007	26	18	100	2,428.00
782.553	ø 175 - 200	±0.007	0.007	26	18	100	2,438.00
782.554	ø 200 - 225	±0.008	0.008	26	18	100	2,736.00
782.555	ø 225 - 250	±0.008	0.008	26	18	100	2,782.00
782.556	ø 250 - 275	±0.008	0.008	26	18	100	2,830.00
782.557	ø 275 - 300	±0.008	0.008	26	18	100	2,878.00

C04.207.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo Holtest three-point internal micrometers

Three-point internal micrometers for quick and accurate measurement of internal dimensions, within a large measuring range. These instruments have an improved ratchet mechanism and the application of high-quality materials ensures a long life span.

- Measuring range: ø6 - 300 mm.
- Graduation: 0.001 mm (ø 6 - 12 mm), 0.005 mm (ø12 - 300 mm).
- Tungsten carbide cone and contact point of the spindle.
- Matt chrome-plated thimble.
- To ø100 mm: implementation for blind bores. From ø100 mm: implementation for through holes.
- Delivery in a plastic case or wooden case with a manufacturer measuring report.

Sets delivered in a wooden carrying case with a manufacturer measuring report.

Measuring range/mm	Accuracy mm	Item No.	Price EUR	Item No.	Price EUR
		Measuring faces with with titanium nitride (TiN) coating:		**Tungsten carbide measuring faces:**	
ø 2 - 2.5	±0.002			368.001	1,053.00
ø 2.5 - 3	±0.002			368.002	1,053.00
ø 3 - 4	±0.002			368.003	841.00
ø 4 - 5	±0.002			368.004	841.00
ø 5 - 6	±0.002			368.005	841.00
ø 6 - 8	±0.002	368.161	396.00		
ø 8 - 10	±0.002	368.162	389.00		
ø 10 - 12	±0.002	368.163	389.00		
ø 12 - 16	±0.002	368.164	466.00	368.764	376.00
ø 16 - 20	±0.002	368.165	479.00	368.765	382.00
ø 20 - 25	±0.003	368.166	491.00	368.766	385.00
ø 25 - 30	±0.003	368.167	502.00	368.767	411.00
ø 30 - 40	±0.003	368.168	520.00	368.768	454.00
ø 40 - 50	±0.003	368.169	528.00	368.769	463.00
ø 50 - 63	±0.003	368.170	594.00	368.770	512.00
ø 62 - 75	±0.003	368.171	620.00	368.771	525.00
ø 75 - 88	±0.003	368.172	632.00	368.772	538.00
ø 87 - 100	±0.003	368.173	646.00	368.773	569.00
ø100 - 125	±0.005	368.174	953.00	368.774	881.00
ø125 - 150	±0.005	368.175	1,015.00	368.775	947.00
ø150 - 175	±0.005	368.176	1,082.00	368.776	1,040.00
ø175 - 200	±0.005	368.177	1,120.00	368.777	1,052.00
ø200 - 225	±0.005	368.178	1,178.00	368.778	1,107.00
ø225 - 250	±0.005	368.179	1,209.00	368.779	1,121.00
ø250 - 275	±0.005	368.180	1,259.00	368.780	1,178.00
ø275 - 300	±0.005	368.181	1,388.00	368.781	1,326.00



368.002 368.168 368.770

Extensions

Item No.	Extension mm	For measuring range/mm	Price EUR
952.322	100	ø 6 - 12	115.00
952.621	150	ø12 - 20	115.00
952.622	150	ø20 - 50	125.00
952.623	150	ø50 - 300	217.00

Sets

Measuring range/mm	Extension mm	Item No.	Price EUR	Item No.	Price EUR
		Measuring faces with with titanium nitride (TiN) coating:		**Tungsten carbide measuring faces:**	
ø 2 - 3	–	–		368.906	2,195.00
ø 3 - 6	–	–		368.907	2,407.00
ø 6 - 12	100	368.911	1,061.00	–	
ø 12 - 20	150	368.912	916.00	368.991	835.00
ø 20 - 50	150	368.913	2,101.00	368.992	1,928.00
ø 50 - 100	150	368.914	2,432.00	368.993	2,340.00
ø100 - 200	150	368.915	5,686.00	368.994	4,681.00



368.914

C04.327.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo Holtest digital three-point internal micrometers

Digital three-point internal micrometers for quick and accurate measurement of internal dimensions, within a large measuring range. These instruments have an improved ratchet mechanism and the application of high-quality materials ensures a long life span.

- Measuring range: ø6 - 300 mm.
- Resolution: 0.001 mm.
- Measuring faces with titanium nitride (TiN) coating.
- Tungsten carbide cone and contact point of the spindle.
- Matt chrome-plated thimble.
- Digimatic data output.
- Automatic switch-off.
- Reset/preset.
- Hold function.
- To ø100 mm: implementation for blind bores. From ø100 mm: implementation for through holes.
- Protection: IP65.
- Delivery in a plastic case or wooden case with a manufacturer measuring report. Sets are delivered with setting rings.
- Power supply: 1 battery type V357.

Item No.	Measuring range/mm	Accuracy mm	Price EUR
468.161	ø 6 - 8	±0.002	1,203.00
468.162	ø 8 - 10	±0.002	1,207.00
468.163	ø 10 - 12	±0.002	1,204.00
468.164	ø 12 - 16	±0.002	1,363.00
468.165	ø 16 - 20	±0.002	1,348.00
468.166	ø 20 - 25	±0.003	1,405.00
468.167	ø 25 - 30	±0.003	1,405.00
468.168	ø 30 - 40	±0.003	1,394.00
468.169	ø 40 - 50	±0.003	1,390.00
468.170	ø 50 - 63	±0.003	1,542.00
468.171	ø 62 - 75	±0.003	1,534.00
468.172	ø 75 - 88	±0.003	1,547.00
468.173	ø 87 - 100	±0.003	1,564.00
468.174	ø100 - 125	±0.005	2,040.00
468.175	ø125 - 150	±0.005	2,127.00
468.176	ø150 - 175	±0.005	2,226.00
468.177	ø175 - 200	±0.005	2,350.00
468.178	ø200 - 225	±0.005	2,484.00
468.179	ø225 - 250	±0.005	2,558.00
468.180	ø250 - 275	±0.005	2,633.00
468.181	ø275 - 300	±0.005	2,763.00



Extensions

Item No.	Extension mm	For measuring range/mm	Price EUR
952.322	100	ø 6 - 12	115.00
952.621	150	ø12 - 20	115.00
952.622	150	ø20 - 50	125.00
952.623	150	ø50 - 300	217.00

Sets

Item No.	Measuring range/mm	Extension mm	Price EUR
One instrument with multiple measuring heads and extension			
468.971	ø 6 - 12	100	2,216.00
468.972	ø 12 - 20	150	1,816.00
468.973	ø 20 - 50	150	2,950.00
468.974	ø 50 - 100	150	4,224.00
468.975	ø100 - 200	150	6,288.00
Multiple instruments			
468.981	ø 6 - 12		3,219.00
468.982	ø 12 - 25		3,570.00
468.983	ø 25 - 50		3,864.00
468.984	ø 50 - 75		2,980.00
468.985	ø 75 - 100		3,553.00

Options

Item No.	Description	Price EUR
836.535	Spare battery	0.80
104.157	Mounting bracket for micrometer stand	60.00
105.662	Digimatic data cable, 1 m	102.00
105.663	Digimatic data cable, 2 m	104.00
106.380	USB Input Tool Direct cable, 2 m	138.00
102.791	U-WAVE data cable	107.00
102.730	U-WAVE transmitter IP67	183.00


468.973


468.983

C04.328.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo Borematic digital three-point internal micrometers

Three-point internal micrometers with the absolute measuring system and a large 6-digit LCD display for an easy read-out of the measurement and tolerance indication. The tolerance values are shown graphically above the current measurement or full size on the display. The 330° rotatable display guarantees an ideal read-out in any position. Easy and fast one-handed operation.

- Measuring range: ø6 - 125 mm.
- Resolution: 0.001 mm.
- Accuracy: refer to the table. Only valid with close contact of all measuring surfaces.
- ABS/INC switchable.
- LCD display 330° rotatable.
- Digimatic data output.
- On/off switch.
- Reset/preset.
- Hold function.
- Adjustable tolerance limits.
- Measuring faces of hardened steel, with titanium nitride (TiN) coating.
- Conforms to factory standard.
- Delivery in a wooden case with a manufacturer measuring report.
- Power supply: 1 battery type V357.

Item No.	Measuring range/mm	Accuracy/mm	Price EUR
568.361	ø 6 - 8	±0.005	1,377.00
568.362	ø 8 - 10	±0.005	1,377.00
568.363	ø 10 - 12	±0.005	1,377.00
568.364	ø 12 - 16	±0.005	1,405.00
568.365	ø 16 - 20	±0.005	1,405.00
568.366	ø 20 - 25	±0.006	1,498.00
568.367	ø 25 - 30	±0.006	1,498.00
568.368	ø 30 - 40	±0.006	1,626.00
568.369	ø 40 - 50	±0.006	1,626.00
568.370	ø 50 - 63	±0.006	1,699.00
568.371	ø 62 - 75	±0.006	1,733.00
568.372	ø 75 - 88	±0.006	1,789.00
568.373	ø 87 - 100	±0.006	1,789.00
568.374	ø100 - 113	±0.006	1,895.00
568.375	ø112 - 125	±0.006	1,925.00
Options:			
836.535	Spare battery		0.80
952.322	Extension 100 mm for Borematic ø 6 - 12 mm		115.00
952.621	Extension 150 mm for Borematic ø12 - 20 mm		115.00
952.622	Extension 150 mm for Borematic ø20 - 50 mm		125.00
952.623	Extension 150 mm for Borematic ø50 - 300 mm		217.00



568.368

Sets

Sets consist of one measuring instrument with interchangeable measuring heads and setting rings.

Item No.	Measuring range/mm	Setting rings ø/mm	Price EUR
568.924	ø 6 - 12	8, 10	2,013.00
568.925	ø12 - 25	16, 20	2,162.00
568.926	ø25 - 50	30, 40	2,544.00
568.927	ø50 - 100[1]	62, 87	4,319.00

[1] Measuring range by means of two sets of interchangeable measuring inserts per measuring head.

Data cables Digimatic, USB Input Tool Direct, U-WAVE available on request.

Schut

C04.273.EN.20230516

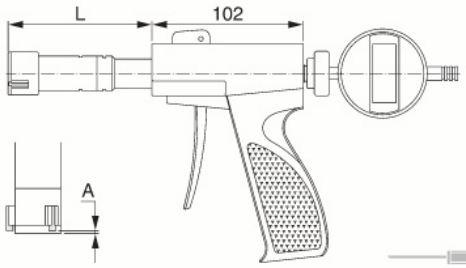
Three-point internal micrometers

Three-point internal micrometers with a clever pistol-shaped base instrument for quick, easy and accurate measurements of internal measures such as (blind) bores. Easy single handed operation for both right and left handed use. Available as single instruments and as sets, with setting ring(s) and extension.

- Measuring range: ø6 - 100 mm.
- Measuring depth: 0 - 270 mm.
- Read-out depends on the type of dial indicator or measuring probe.
- Clamping shaft: ø8 mm.
- Self-centering.
- Excl. dial indicator or measuring probe.
- Tungsten carbide measuring faces.
- Setting rings are conform to factory standard.
- Delivery in an aluminum carrying case.



907.774





Separate instruments

Item No.	Measuring range/mm	Accuracy mm[1]	Setting ring ø/mm	Extension mm	Length/mm L	A	Price EUR
907.770	ø 6 - 8	±0.004	8	100	50	2	259.00
907.771	ø 8 - 10	±0.004	8	100	50	2	254.00
907.772	ø10 - 12	±0.004	10	100	50	2	269.00
907.773	ø12 - 16	±0.004	16	150	65	0.5	272.00
907.774	ø16 - 20	±0.004	16	150	65	0.5	289.00
907.775	ø20 - 25	±0.004	25	150	91	0.5	307.00
907.776	ø25 - 30	±0.004	25	150	91	0.5	327.00
907.777	ø30 - 40	±0.004	40	150	97	0.5	352.00
907.778	ø40 - 50	±0.005	40	150	97	0.5	375.00
907.779	ø50 - 63	±0.005	62	150	112	0.5	400.00
907.780	ø62 - 75	±0.005	62	150	112	0.5	425.00
907.781	ø75 - 88	±0.005	87	150	112	0.5	453.00
907.782	ø87 - 100	±0.005	87	150	112	0.5	483.00

[1] Excl. accuracy of dial indicator or measuring probe.

Sets

Item No.	Measuring range/mm	Setting ring(s) ø/mm	Number of pistol grips	Extension mm	Price EUR
907.783	ø 6 - 12	8, 10	1	100	647.00
907.784	ø12 - 20	16	1	150	477.00
907.785	ø20 - 50	25, 40	2	150	1,174.00
907.786	ø50 - 100	62, 87	1	150	1,443.00

C04.302.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Dial bore gauge for through bores

Dial bore gauge consisting of a grip (clamping shaft ø 8 mm), with a two point split contact point with a needle.

- Measuring range: 3 - 18 mm.
- Measuring elements: hardened steel.
- Measuring needles: hardened steel.
- Including standard dial indicator 0 - 3 mm / 0.01 mm.
- Constant measuring force as a result of a built-in spring, thus eliminating user influence.
- Delivery in a plastic case.

NEW

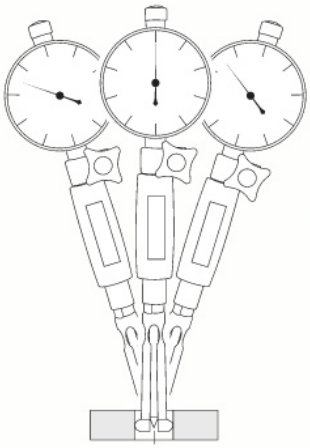


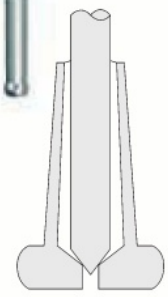
910.327

Schut PRICE

Item No.	Measuring range/mm	Measuring depth/mm	Number of inserts	Price EUR
910.326	3 - 4	20	4	384.00
910.327	4 - 6	30	4	308.00
910.328	6 - 10	40	4	210.00
910.329	10 - 18	130	8	224.00


910.329





Optional dial indicators

Item No.	Measuring range/mm	Graduation mm	Accuracy mm	Price EUR
Analog:				
907.933[1]	0 - 10	0.01	–	19.00
Digital (with determination of the reversal point):				
910.004[1]	0 - 12.7	0.001	±0.004	163.00
909.250[1]	0 - 12.5	0.002	±0.015	112.00
909.251[1]	0 - 12.5	0.0005	±0.006	210.00
910.340[2]	0 - 15	0.0005	±0.002	310.00
Option:				
852.446	Probe extension 10 mm			5.10

[1] Extension 10 mm 852.446 required (only for 910.326 and 910.327).
[2] Only suitable for 910.326 and 910.327.


910.004


910.340

C04.333.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Schwenk Osimess dial bore gauges for through bores

Schwenk dial bore gauges consisting of a grip (clamping shaft ø 8 mm), with a two point split contact point with a needle. Constant measuring force as a result of a built-in spring, thus eliminating user influence. For more information please contact our sales department.

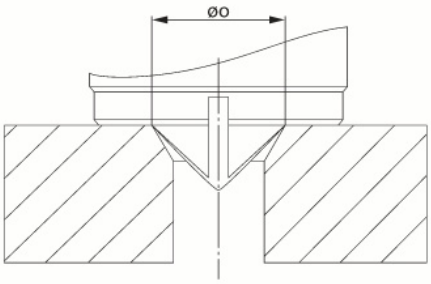




Schwenk internal chamfer gauges

For measuring the large diameter of the countersink of a bore.





NEW

Item No.	Angle	Measuring range/mm	Price EUR
852.069	90°	0.5 - 20	485.00
852.300	90°	20 - 40	696.00
852.267	127°	0.5 - 20	816.00
851.954	127°	20 - 40	1,030.00

C04.338.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Internal measuring instruments

Internal measuring instruments used for measuring diameters of cylindrical bores and form deviations for instance roundness and cylindricity, compared to standards such as setting rings. In order to read out the measured values, any existing dial indicator or measuring probe with a clamping stem of ø8 mm can be used. The reversal point marks the diameter of the bores. When using digital indicators a model with a hold function for minimal measuring value is recommended. Please see the dial indicators section for these dial indicators.

- Measuring range: 6 - 450 mm.
- Read-out depends on the type of dial indicator or measuring probe.
- Incl. standard dial indicator 0 - 3 mm / 0.01 mm.
- Clamping shaft: ø8 mm.
- Self-centering (except 907.230).
- Interchangeable measuring inserts with tungsten carbide stylus tip (907.230 with spherical measuring face).
- Delivery in a plastic case or a wooden case incl. standard dial indicator and measuring inserts.


907.230


907.231


907.232


907.233


907.235


907.236

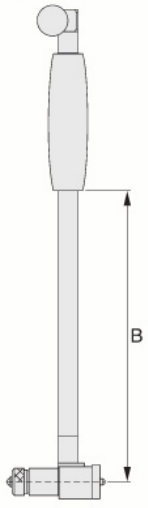

907.237


907.235 + 907.933



907.235 + 907.933





Item No.	Measuring range/mm	Effective measuring range/mm	Measuring depth (B)/mm	Number of probes	Price EUR
907.230	6 - 10	0.5	40	9	91.00
907.231	10 - 18	0.5	100	9	102.00
907.232	18 - 35	1.2	150	9	80.00
907.233	35 - 50	1.2	150	4	80.00
907.235	50 - 160	1.2	150	12	80.00
907.236	160 - 250	1.2	400	5	107.00
907.237	250 - 450	1.2	400	5	115.00

C04.303.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Peacock internal measuring instruments

Internal measuring instruments used for measuring diameters of cylindrical bores and form deviations for instance roundness and cylindricity, compared to standards such as setting rings. In order to read out the measured values, any existing dial indicator or measuring probe with a clamping stem of ø 8 mm can be used. The reversal point marks the diameter of the bores. When using digital indicators a model with a hold function for minimal measuring value is recommended. Please see the dial indicators section for these dial indicators.

- Measuring range: 6 - 400 mm.
- Read-out depends on the type of dial indicator or measuring probe.
- Clamping shaft: ø 8 mm.
- Self-centering bridge.
- Interchangeable measuring inserts with tungsten carbide stylus tip.
- Delivery in a plastic case or a wooden case.
- Excl. dial indicator or measuring probe.


855.010


855.018


855.035


855.060


855.150


855.160


855.250

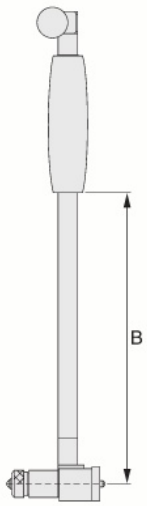

855.260


855.150 + 855.517


859.557 + 855.517


855.150 + 855.517

Item No.	Measuring range/mm	Effective measuring range/mm	Measuring depth (B)/mm	Number of probes	Price EUR
855.010	6 - 10	0.5	50	9	226.00
855.018	10 - 18	0.5	100	9	202.00
855.035	18 - 35	1.2	150	9	168.00
855.060	35 - 60	1.2	150	6	160.00
855.150	50 - 150	1.2	150	11	177.00
855.160	100 - 160	1.2	250	7	337.00
855.250	160 - 250	1.2	250	10	409.00
855.260	250 - 400	1.2	400	16	589.00
Options:					
855.517	Peacock dial indicator 0 - 5 mm, graduation 0.01 mm				41.00
859.557	Protection for dial indicator				27.80



C04.224.EN.20230516

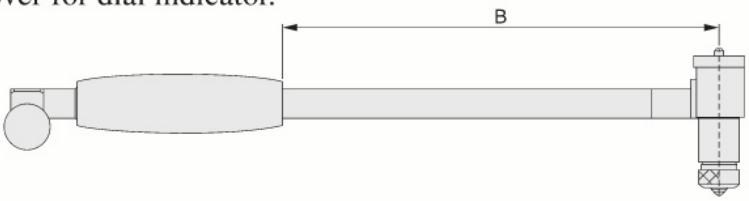
© 2023, Schut Geometrische Meettechniek bv

Mitutoyo bore gauges with dial indicator

Internal measuring instruments used for measuring diameters of cylindrical bores and form deviations for instance roundness and cylindricity, compared to standards such as setting rings. In order to read out the measured values, any existing dial indicator or measuring probe with a clamping stem of ø8 mm can be used. The reversal point marks the diameter of the bores. When using digital indicators a model with a hold function for minimal measuring value is recommended. Please see the dial indicators section for these dial indicators.

- Measuring range: 18 - 400 mm.
- Measuring range dial indicator:
  204.601: 0 - 10 mm,
  210.912: 0 - 1 mm,
  543.310: 0 - 12.7 mm.
- Read-out depends on the type of dial indicator or measuring probe.
- Accuracy: 0.002 mm.
- Repeatability: 0.0005 mm.
- Clamping shaft: ø8 mm.
- Interchangeable measuring inserts with tungsten carbide stylus tip.
- Plastic cover for dial indicator.
- Several accessories available.
- Delivery in a plastic case with dail indicator and measuring inserts.
- Other models also available, including for the measurement of blind bores.

NEW



Schut



511.711

Item No.	Measuring range/mm	Dial indicator No.	Read-out mm	Measuring depth (B)/mm	Price EUR
511.711	18 - 35	204.601	0.01	100	299.00
511.712	35 - 60	204.601	0.01	150	304.00
511.713	50 - 150	204.601	0.01	150	315.00
511.714	100 - 160	204.601	0.01	150	500.00
511.715	160 - 250	204.601	0.01	250	613.00
511.716	250 - 400	204.601	0.01	250	736.00
511.721	18 - 35	210.912	0.001	100	362.00
511.722	35 - 60	210.912	0.001	150	369.00
511.723	50 - 150	210.912	0.001	150	381.00
511.724	100 - 160	210.912	0.001	150	574.00
511.725	160 - 250	210.912	0.001	250	693.00
511.726	250 - 400	210.912	0.001	250	816.00

Sets

Item No.	Measuring range/mm	Dial indicator No.	Read-out mm	Price EUR
Analog:				
511.921	18 - 150	204.601	0.01	580.00
511.922	18 - 150	210.912	0.001	635.00
Digital (with determination of the reversal point):				
511.925	18 - 150	543.310	0.001	1,011.00



511.921

C04.315.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

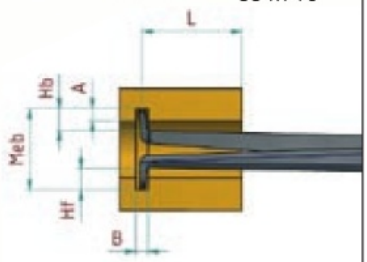
Krœplin digital internal measuring instruments (3-point)

Krœplin digital internal measuring instruments (3-point) for easier centering.

- Measuring range: 7 - 105 mm.
- Resolution: 0.001, 0.002, 0.005, 0.01, 0.02 or 0.05 mm, adjustable.
- mm/inch conversion.
- ABS/INC switchable.
- Mitutoyo Digimatic, Mitutoyo U-WAVE, Bluetooth and USB data outputs optionally available.
- Automatic switch-off.
- Storage for 100 measuring values.
- Reset/preset.
- With tolerance display by means of red/green LED.
- Hold and min/max functions.
- Protection: IP67.
- Delivery with a manufacturer measuring report.
- Power supply: 2 batteries AAA.



854.716



Item No.	Meas. depth L/mm	Groove depth A/mm	Groove width B/mm	Type of insert	Insert length Hb/mm
854.715	34	2.2	0.8	①	2.5
854.716	75	3.5	1.6	②	4.6
854.717	77	5.0	1.6	②	5.8
854.718	84	7.0	1.6	③	7.3
854.719	84	8.0	1.6	③	12.2
854.720	84	8.0	1.6	③	12.2
854.721	84	8.5	1.6	③	12.2
854.722	84	9.0	1.6	③	12.2

Item No.	Measuring range/mm	Accuracy mm	Repeatability mm	Price EUR
854.715	7 - 14	±0.01	0.004	514.60
854.716	10 - 20	±0.02	0.01	514.60
854.717	15 - 30	±0.02	0.01	514.60
854.718	25 - 45	±0.02	0.01	514.60
854.719	40 - 60	±0.02	0.01	514.60
854.720	55 - 75	±0.02	0.01	514.60
854.721	70 - 90	±0.02	0.01	514.60
854.722	85 - 105	±0.02	0.01	514.60

Options:

497.914	Spare battery type AAA	0.80
854.952[1]	Interface	45.90
965.013[1]	Digimatic cable	70.00
206.380[1]	USB cable	121.00
102.790[1]	U-WAVE cable	96.00
854.092[2]	Bluetooth interface adapter (only K and L series)	106.30
854.073	Bluetooth PC dongle	9.30
854.113	Wooden case (only K and L series)	52.00
859.233	Wooden case (only C and G series)	31.10

[1] For data output an interface and cable are needed.
[2] Bluetooth interface adapter is delivered with a Bluetooth PC dongle (854.073).

Types of inserts



C04.317.EN.20230516

Schwenk internal measuring instruments

Internal measuring instruments used for measuring diameters of cylindrical bores and form deviations for instance roundness and cylindricity, compared to standards such as setting rings. In order to read out the measured values, any existing dial indicator or measuring probe with a clamping stem of ø8 mm can be used. The reversal point marks the diameter of the bores. When using digital indicators a model with a hold function for minimal measuring value is recommended.

- Measuring range: 4.5 - 800 mm.
- Read-out depends on the type of dial indicator or measuring probe.
- Accuracy: 4.5 - 290 mm: ≤0.002 mm, 280 - 800 mm: ≤0.003 mm.
- Repeatability: 4.5 - 290 mm: ≤0.0005 mm, 280 - 800 mm: ≤0.0015 mm.
- Clamping shaft: ø8 mm.
- Self-centering bridge.
- Measuring pins supplied with tungsten carbide ball tip.
- Interchangeable pins also available with steel or ruby ball tip.
- Centering bridge also available with a wear-resistant coating.
- Delivery in a wooden case with measuring inserts and spacer rings (from 12 mm).
- Excl. dial indicator or measuring probe.
- Measuring depth extensions available on request.
- Sets consist of 2 or 3 instruments in one wooden case.

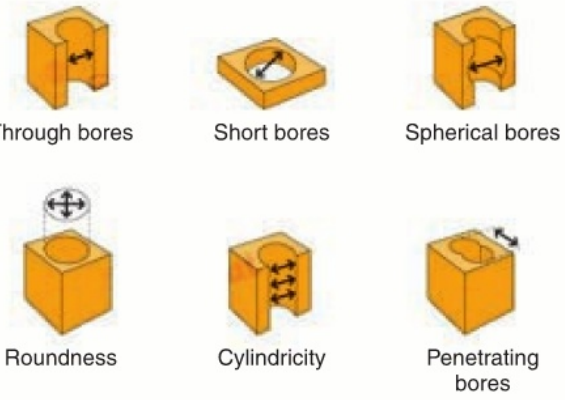


See for dial indicators the page "Schwenk precision dial indicators".

Item No.	Measuring range/mm	Measuring depth/mm	Price EUR
852.500	4.5 - 6	80	986.00
852.501	6 - 8	100	687.00
852.502	8 - 12	100	655.00
852.503	12 - 20	110	446.00
852.504	18 - 35	110	461.00
852.505	35 - 60	177	443.00
852.506	50 - 100	177	505.00
852.507	50 - 150	177	521.00
852.508	100 - 160	234	656.00
852.509	100 - 230	234	680.00
852.510	160 - 290	234	885.00
852.511	160 - 360	234	909.00
852.512	280 - 410	400	2,060.00
852.513	280 - 510	400	2,090.00
852.514	400 - 800	400	3,100.00

Sets

Item No.	Measuring range/mm	Number of instruments	Price EUR
851.925	18 - 100	3	1,246.00
852.752	18 - 150	3	1,262.00
851.926	50 - 160	2	1,052.00
852.624	50 - 230	2	1,076.00



C04.220.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Schwenk internal measuring instruments for great depths

Special series of internal measuring instruments with extra long handles for measuring cylindric bores and form deviations of bores up to 2.5 meters.

- Measuring range: 4.5 - 800 mm.
- Measuring depth: 250 - 2500 mm.
- Read-out depends on the type of dial indicator or measuring probe.
- Clamping shaft: ø 8 mm.
- Self-centering bridge with wear-resistant coating.
- Fixed measuring probe supplied with tungsten carbide ball tip.
- Interchangeable probes supplied with tungsten carbide ball tip.
- Delivery in a wooden case with measuring inserts and spacer rings (from 12 mm).
- Excl. dial indicator or measuring probe.



Meas. depth	**250 mm**	**500 mm**	**750 mm**	**1000 mm**	**1250 mm**	**1500 mm**	**2000 mm**	**2500 mm**
Measuring range/mm	*Item No.* Price EUR	*Item No.* Price EUR	*Item No.* Price EUR	*Item No.* Price EUR	*Item No.* Price EUR	*Item No.* Price EUR	*Item No.* Price EUR	*Item No.* Price EUR
4.5 - 6	*852.520* 1,938.00							
6 - 8	*852.521* 1,402.00	*852.522* 1,547.00	*852.523* 1,616.00	*852.524* 1,713.00				
8 - 12	*852.525* 1,354.00	*852.526* 1,489.00	*852.527* 1,579.00	*852.528* 1,654.00				
12 - 20	*852.529* 834.00	*852.530* 1,076.00	*852.531* 1,129.00	*852.532* 1,235.00				
18 - 35	*852.533* 818.00	*852.534* 994.00	*852.535* 1,144.00	*852.536* 1,305.00	*852.537* 1,456.00			
35 - 60	*852.538* 796.00	*852.539* 978.00	*852.540* 1,123.00	*852.541* 1,396.00	*852.542* 1,440.00	*852.543* 1,461.00	*852.544* 1,572.00	*852.545* 1,971.00
50 - 100	*852.546* 968.00	*852.547* 1,144.00	*852.548* 1,181.00	*852.549* 1,515.00	*852.550* 1,579.00	*852.551* 1,644.00	*852.552* 1,857.00	*852.553* 2,140.00
50 - 150	*852.554* 994.00	*852.555* 1,171.00	*852.556* 1,209.00	*852.557* 1,542.00	*852.558* 1,606.00	*852.559* 1,676.00	*852.560* 1,885.00	*852.561* 2,170.00
100 - 160		*852.562* 1,331.00	*852.563* 1,520.00	*852.564* 1,708.00	*852.565* 1,809.00	*852.566* 2,020.00	*852.567* 2,150.00	*852.568* 2,430.00
100 - 230		*852.569* 1,375.00	*852.570* 1,563.00	*852.571* 1,751.00	*852.572* 1,857.00	*852.573* 2,070.00	*852.574* 2,190.00	*852.575* 2,470.00
160 - 290		*852.576* 1,815.00	*852.577* 2,000.00	*852.578* 2,170.00	*852.579* 2,290.00	*852.580* 2,890.00	*852.581* 3,050.00	*852.582* 3,330.00
160 - 360		*852.583* 1,864.00	*852.584* 2,050.00	*852.585* 2,220.00	*852.586* 2,330.00	*852.587* 2,930.00	*852.588* 3,090.00	*852.589* 3,370.00
280 - 410		*852.590* 3,200.00	*852.591* 3,340.00	*852.592* 4,000.00	*852.593* 4,070.00	*852.594* 4,370.00	*852.595* 5,000.00	*852.596* 5,470.00
280 - 510		*852.597* 3,260.00	*852.598* 3,400.00	*852.599* 4,060.00	*852.600* 4,130.00	*852.601* 4,430.00	*852.602* 5,060.00	*852.603* 5,540.00
500 - 800				*852.604* 5,250.00	*852.605* 5,390.00	*852.606* 5,610.00	*852.607* 6,280.00	*852.608* 6,740.00

See for dial indicators the page "Schwenk precision dial indicators".

C04.221.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Schwenk internal measuring instruments with ball probes

Special internal measuring instruments for measuring profiles and internal gearing without a centering bridge. The fixed pin gauge and interchangeable inserts come with internal screw thread, in which ball probes can be placed.

- Measuring range: 8 - 510 mm.
- Read-out depends on the type of dial indicator or measuring probe.
- Accuracy: ≤0.002 mm.
- Repeatability: ≤0.0005 mm.
- Clamping shaft: ø8 mm.
- Ball probes available from ø0.5 mm, incrementing with 0.001 mm. Deviation diameter: <0.002 mm.
- Delivery in a wooden case with measuring inserts and spacer rings (from 12 mm).
- Excl. ball probes and dial indicator or measuring probe.



Internal measuring instruments

Item No.	Measuring range/mm	Measuring depth/mm	Price EUR
852.625	8 - 12	100	893.00
852.627	12 - 22	102	849.00
852.629	22 - 55	110	633.00
852.632	55 - 250	177	693.00
852.636	100 - 510	235	819.00
852.635	Adapter for ball probes (M1.6/M2.5)		33.40
852.091	Adapter for ball probes (M2.5/M4)		33.40

See for dial indicators the page "Schwenk precision dial indicators".

Item No.	Diameter mm	Thread	Price EUR
Set of ball probes (pair)[1] for 852.625:			
852.107	1	M1.6	167.00
852.004	1.5	M1.6	167.00
852.005	2	M1.6	167.00
Set of ball probes (pair)[1] for 852.627:			
852.982	1	M1.6	159.00
852.006	1.5	M1.6	159.00
852.007	2	M1.6	159.00
852.008	2.5	M1.6	159.00
852.009	3	M1.6	159.00
852.675	3.5	M1.6	159.00
852.671	4	M1.6	159.00
Set of ball probes (pair)[1] for 852.629:			
852.092	1	M2.5	159.00
852.010	1.5	M2.5	159.00
852.011	2	M2.5	159.00
852.012	2.5	M2.5	159.00
852.674	3	M2.5	159.00
852.650	3.5	M2.5	159.00
852.676	4	M2.5	159.00
852.651	4.5	M2.5	159.00
852.677	5	M2.5	159.00
852.013	5.5	M2.5	159.00
852.655	6	M2.5	159.00
852.014	6.5	M2.5	159.00
852.678	7	M2.5	159.00
852.015	7.5	M2.5	212.00
852.016	8	M2.5	212.00
852.017	8.5	M2.5	212.00
852.018	9	M2.5	212.00
852.019	9.5	M2.5	212.00
852.020	10	M2.5	212.00
Set of ball probes (pair)[1] for 852.632/852.636:			
852.021	1	M4	159.00
852.022	1.5	M4	159.00
852.023	2	M4	159.00
852.116	2.5	M4	159.00
852.670	3	M4	159.00
852.653	3.5	M4	159.00
852.913	4	M4	159.00
852.186	4.5	M4	159.00
852.672	5	M4	159.00
852.195	5.5	M4	159.00
852.673	6	M4	159.00
852.024	6.5	M4	159.00
852.914	7	M4	159.00
852.025	7.5	M4	212.00
852.026	8	M4	212.00
852.027	8.5	M4	212.00
852.657	9	M4	212.00
852.028	9.5	M4	212.00
852.656	10	M4	212.00

[1] Special sizes on request.

C04.223.EN.20230516

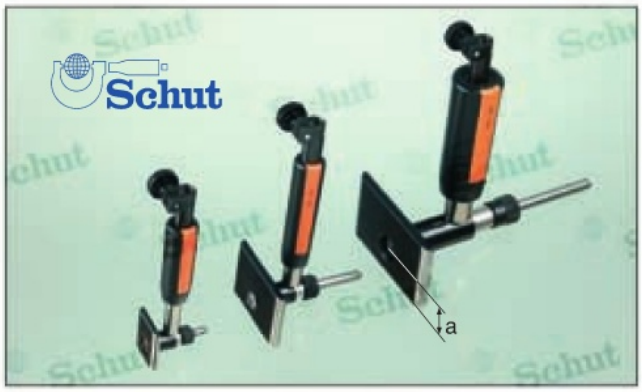
© 2023, Schut Geometrische Meettechniek bv

Schwenk Vario internal measuring instruments

The Vario internal measuring instruments come with an extra high centering bridge that gives a more stable alignment, which means that it is no longer necessary to look for the reversal point. Therefore, these internal measuring instruments are highly useful for serial inspection.

- Measuring range: 20 - 170 mm.
- Read-out depends on the type of dial indicator or measuring probe.
- Accuracy: ≤0.002 mm.
- Repeatability: ≤0.001 mm.
- Clamping shaft: ø8 mm.
- High self-centering and self-aligning bridge.
- Fixed measuring probe supplied with tungsten carbide ball tip.
- Interchangeable probes supplied with tungsten carbide ball tip.
- Short handle.
- Delivery in a wooden case with measuring inserts and spacer rings.
- Excl. dial indicator or measuring probe.

Item No.	Measuring range/mm	a mm	Price EUR
852.610	20 - 35	21	535.00
852.611	35 - 55	23	514.00
852.612	50 - 80	24	574.00
852.613	80 - 120	24	586.00
852.614	120 - 170	30	762.00



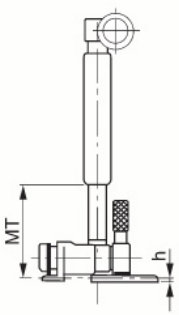
See for dial indicators the page "Schwenk precision dial indicators".

Schwenk internal measuring instruments for blind bores

These internal measuring instruments have been designed in such a way that they can measure the roundness and cylindricity of blind bores almost to the bottom. The adjustable measuring axis can be changed easily, and is equipped with graduations and gearing, so it can't move during measurement.

- Measuring range: 20 - 400 mm (up to 600 mm on request).
- Read-out depends on the type of dial indicator or measuring probe.
- Accuracy: 20 - 60 mm: ≤0.004 mm,
  50 - 400 mm: ≤0.0025 mm.
- Repeatability: ≤0.001 mm.
- Clamping shaft: ø8 mm.
- Self-centering bridge.
- Fixed measuring probe supplied with tungsten carbide ball tip.
- Interchangeable, adjustable measuring axes standard supplied with tungsten carbide ball tip.
- Fixed probe and interchangeable axes also available with ruby ball tip.
- Distance ball tips to bottom blind bores (h): 20 - 140 mm: 1.5 mm, 110 - 400 mm: 2.0 mm.
- Delivery in a wooden case with interchangable axes.
- Excl. dial indicator or measuring probe.

Item No.	Measuring range/mm	MT mm	h mm	Price EUR
852.615	20 - 50	77	1.5	843.00
852.616	20 - 60	77	1.5	891.00
852.617	50 - 110	60	1.5	817.00
852.618	50 - 140	60	1.5	871.00
852.619	110 - 300	90	2.0	1,141.00
852.620	110 - 400	90	2.0	1,380.00





See for dial indicators the page "Schwenk precision dial indicators".

C04.222.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Schwenk Rabito internal measuring instruments

The design of the Rabito internal measuring instruments is based on Schwenk's well-proven principle, and has been developed to offer a high accuracy at a low price. Due to the robust construction very suited for use in the clean room as well as for batch measurements on the production floor.

- Measuring range: 18 - 150 mm.
- Read-out depends on the type of dial indicator or measuring probe.
- Accuracy: ≤0.004 mm.
- Repeatability: ≤0.002 mm.
- Clamping shaft: ø8 mm.
- Travel: 1.4 mm (18 - 25 mm: 1.3 mm).
- Fixed and interchangeable measuring probes supplied with tungsten carbide ball tip.
- Item 852.957 consists of item 852.954, an extension up to 50 mm and item 852.956.
- Delivery in a wooden case with measuring inserts and spacer rings.
- Excl. dial indicator or measuring probe.





Item No.	Measuring range/mm	Measuring depth/mm	Price EUR
852.954	18 - 35	176	252.00
852.955	35 - 60	178	244.00
852.956	50 - 150	178	284.00
852.957	18 - 150	178	493.00

See for dial indicators the page "Schwenk precision dial indicators".

Schwenk internal measuring instruments/contourmeters

Internal measuring instruments to measure the cross-sections of round and not-round bores. The surface of the bores can either be smooth or rough.

- Measuring range: 14 - 330 mm.
- Graduation: 0.1 mm.
- Stainless steel strip.
- Tape width: 20 mm.
- Delivery in a plastic tube.
- Available on request:
  – for outer diameters,
  – with measuring report,
  – digital model (incl. display).

Item No.	Measuring range/mm	Price EUR
852.683	14 - 24	436.00
852.684	22 - 40	405.00
852.685	35 - 60	330.00
852.697	55 - 100	350.00
852.937	95 - 180	437.00
852.991	170 - 255	479.00
852.992	245 - 330	560.00



C04.272.EN.20230516

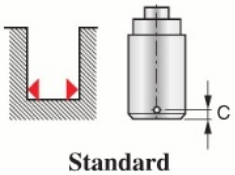
© 2023, Schut Geometrische Meettechniek bv

Marposs M1 Star internal bore gauges

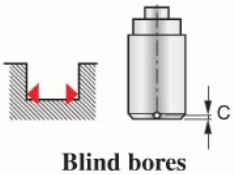
The Marposs bore gauges are ideal for checking bores with high accuracy, even in the workshop. With the self-centering measuring heads control of e.g. diameters and ovality are easy to perform with high repeatability. The measuring heads are supplied based on the minimum value to be measured. Via an optional digital dial indicator measuring values can be exported to a PC for data analysis in for instance Microsoft Excel.

- Measuring range: 3 - 300 mm.
- Read-out depends on the type of dial indicator or measuring probe.
- Accuracy (L = measuring range):
  0 - 26 mm: ±(3%L + 1 µm),
  26 - 300 mm: ±(1%L + 1 µm).
- Repeatability: ≤0.001 mm.
- Clamping shaft: ø8 mm.
- Tungsten carbide stylus tip.
- Available for blind bores and through bores.
- Excl. dial indicator or measuring probe.
- Special-purpose gauge heads and extensions available on request.
- Also available with stylus tip for RA ≥2 µm.
- Several accessories available.

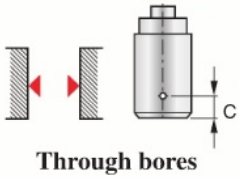




Standard



Blind bores



Through bores

Measuring heads

Diameter mm	Thread	C mm	Measuring range/mm	Price EUR	C mm	Measuring range/mm	Price EUR	C mm	Measuring range/mm	Price EUR
3 - 4	M3.5	2.5	0.055	418.00	1	0.055	592.00	–	–	–
4 - 4.5	M3.5	2.5	0.055	366.00	1	0.055	462.00	–	–	–
4.5 - 5.5	M3.5	2.5	0.070	366.00	1	0.070	462.00	6	0.070	398.00
5.5 - 7.5	M3.5	3	0.120	366.00	1	0.120	462.00	6	0.120	398.00
7.5 - 9.5	M3.5	3	0.120	331.00	1	0.120	453.00	6	0.120	398.00
9.5 - 15	M6	3	0.120	331.00	1	0.120	431.00	6	0.120	373.00
15 - 20	M6	3	0.120	331.00	1	0.120	568.00	6	0.120	394.00
20 - 26	M6	3.5	0.120	384.00	1	0.120	568.00	6	0.120	394.00
26 - 40	M10	3.5	0.150	431.00	1	0.150	629.00	6	0.150	454.00
40 - 50	M10	3.5	0.150	470.00	1	0.150	704.00	8	0.150	504.00
50 - 60	M10	3.5	0.150	513.00	1	0.150	768.00	8	0.150	555.00
60 - 70	M10	3.5	0.150	544.00	1	0.120	768.00	8	0.150	578.00
70 - 80	M10	3.5	0.150	570.00	1	0.120	859.00	8	0.150	615.00
80 - 90	M10	3.5	0.150	603.00	1	0.120	899.00	8	0.150	638.00
90 - 100	M10	3.5	0.150	629.00	1	0.120	943.00	8	0.150	673.00

Larger sizes available on request.

Item No.	Description	Price EUR
880.000	M1 Star handle with M3.5 thread	195.00
880.001	M1 Star handle with M6 thread	183.00
880.002	M1 Star handle with M10 thread	197.00
880.003	M1 Star handle with M3.5 thread compact	96.00
880.004	M1 Star handle with M6 thread compact	82.00
880.005	M1 Star handle with M10 thread compact	106.00
Options:		
880.007	Dial indicator protector depth 39 mm	49.00
880.006	Dial indicator protector depth 52 mm	49.00
880.008	Adapter M3.5 for M6 handle	14.50
880.009	Adapter M3.5 for M10 handle	18.10
880.010	Adapter M6 for M10 handle	22.00



C04.331.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Marposs I-Wave2

The I-Wave2 is an innovative, wireless measuring instrument with integrated 1.8" TFT color display with direct display of the measured value and graphic tolerance evaluation. This digital version is extra accurate thanks to a linearized internal measuring probe. The same measuring heads and advantages as the Marposs M1 Star are applied. The measured values can be saved in the most popular formats such as csv, txt, etc. via the bluetooth function with the Ready2Gauge app.

- Resolution: 0.0001 mm.
- Repeatability: ≤1 µm.
- Linear deviation: 0.0003 mm / 5 mm.
- ABS/INC switchable.
- Automatic switch-off.
- Reset/preset.
- Hold function.
- Reversible measuring direction.
- Adjustable tolerance limits.
- Protection: IP67.
- 1.8" clear TFT color display with automatic rotation.
- Bluetooth for wireless data transfer.
- Software for Windows (7 and 10) and app for Android and iOS available as download.
- Power supply: rechargeable Li-ion battery included (required inductive charger, power supply and power cable excluded).

Also available:
– Models with Star Lock quick change system,
– Measuring heads for various internal measurements,
– Measuring heads for external diameters,
– Angle adapters,
– Extensions,
– Depth stops.









Item No.	Description	Price EUR
880.011	Iwave 2 Handle with M3.5 thread	2,500.00
880.012	Iwave 2 Handle with M6 thread	2,500.00
880.013	Iwave 2 Handle with M10 thread	2,500.00
880.014	Inductive charger	527.00
880.015	Power supply	132.00
880.016	Power cable	51.00
Options:		
880.017	Adapter M3.5 for Iwave 2	35.80
880.018	Adapter M6 for Iwave 2	35.80
880.019	Adapter M10 for Iwave 2	35.80
880.020	Bluetooth Dongle	116.00

Many optional accessories are available on request.

C04.332.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo setting instrument for internal measuring instruments

This instrument offers you the best way to accurately set the zero position of your internal measuring instruments with dial indicator. Gauge blocks are used to set the exact reference value. The special mounting holes assure that the centering device of the micrometer also functions when in use on this instrument, making the checking just as easy as measuring.

The complete instrument (excl. gauge blocks) consists of:
– 1 stand with double guidance, for measuring ranges up to 400 mm,
– 1 receiver for measuring ranges 18 - 35 and 35 - 60 mm,
– 1 receiver for measuring ranges 50 - 100 and 100 - 160 mm,
– 1 receiver for measuring ranges 100 - 250 and 250 - 400 mm,
– 2 flat measuring jaws.
■ Delivery in a wooden box.



Item No.	Adjustment range/mm	Price EUR
515.590	18 - 400	1,546.00

Mitutoyo setting instruments for stick micrometers

This instrument has been especially developed for the calibration of stick micrometers. It consists of a step gauge with ceramic gauge blocks, two clamping elements with V-shaped supports and two 10 mm ceramic gauge blocks.

The ceramic gauge blocks can be clamped to the step gauge at any desired distance of each other. In that way the stick micrometer that has to be checked rests perfectly aligned on the V-shaped supports and touches the gauge blocks with its measuring points. Only suited for mechanical stick micrometers.

■ Adjustment range: 25 - 600 mm.
■ Increment: 25 mm.
■ Max. deviation: 25 - 300 mm: 0.003 mm,
300 - 600 mm: 0.005 mm.
■ Conforms to factory standard.



515.585

Item No.	Adjustment range/mm	Price EUR
515.585	25 - 300	1,724.00
515.586	25 - 600	3,639.00

C04.277.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Setting instrument for internal measuring instruments

This instrument offers you the best way to accurately set the zero position of your internal measuring instruments with dial indicator. Gauge blocks are used to set the exact reference value. The special mounting hole assures that the centering device of the micrometer also functions when in use on this instrument, making the checking just as easy as measuring.

- Adjustment range: 18 - 400 mm.
- The setting instrument consists of a stand with double guidance and a flat measuring jaw.
- Excl. gauge blocks.
- Delivery in a wooden box.



PRICE

Item No.	Adjustment range/mm	Price EUR
907.877	18 - 400	639.00

Setting gauges for inside micrometers

Used for setting of inside micrometers.

- Measuring range: 50 - 275 mm.
- Delivery in a wooden case.



910.005

PRICE

Item No.	Length mm	Accuracy mm	Parallelism mm	Price EUR
910.005	50	±0.003	0.003	36.10
910.006	75	±0.004	0.004	50.00
910.007	100	±0.005	0.005	65.00
910.008	150	±0.005	0.005	94.00
910.009	200	±0.005	0.005	130.00
910.010	250	±0.005	0.005	180.00
910.011	275	±0.005	0.005	209.00

Schut

C04.226.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Stick micrometers

- Measuring range: 50 - 600 mm.
- Graduation: 0.01 mm.
- Locking screw (except 906.078).
- Spherical tungsten carbide measuring faces: ø 8 x 8 mm (906.078/079: ø 9 x 2.5 mm).
- With insulating grips (only 906.083 - 906.099).
- Delivery in a wooden case.
- Excl. setting gauge.



906.080



906.096

Schut

PRICE

Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.078	50 - 75	±0.006	43.00
906.079	75 - 100	±0.006	49.00
906.080	100 - 125	±0.006	55.00
906.081	125 - 150	±0.008	61.00
906.082	150 - 175	±0.008	66.00
906.083	175 - 200	±0.008	71.00
906.084	200 - 225	±0.009	77.00
906.085	225 - 250	±0.009	82.00
906.086	250 - 275	±0.009	87.00
906.087	275 - 300	±0.009	93.00
906.088	300 - 325	±0.009	99.00

Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.089	325 - 350	±0.009	105.00
906.090	350 - 375	±0.010	115.00
906.091	375 - 400	±0.010	123.00
906.092	400 - 425	±0.010	130.00
906.093	425 - 450	±0.010	136.00
906.094	450 - 475	±0.011	141.00
906.095	475 - 500	±0.011	147.00
906.096	500 - 525	±0.011	153.00
906.097	525 - 550	±0.011	159.00
906.098	550 - 575	±0.011	165.00
906.099	575 - 600	±0.012	171.00

C04.227.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Stick micrometer sets

- Measuring range: 50 - 5000 mm.
- Measuring range micrometer:
  906.911 - 906.917: 50 - 63 mm,
  906.918: 150 - 175 mm,
  906.919 - 906.923: 1000 - 1050 mm.
- Graduation: 0.01 mm.
- Accuracy:
  906.911 - 906.918: ±(3 + *n* + *L*/50) µm,
  906.919 - 906.923: ±(7 + *n* + *L*/50) µm
  (*n* = number of extensions,
  L = max. measuring length in mm).
- Locking screw.
- Spherical tungsten carbide measuring faces.
- With insulating grips
  (only 906.918 - 906.923).
- External diameter micrometer/extensions:
  906.911 - 906.917: 15.5 mm,
  906.918: 22 mm,
  906.919 - 906.923: 28 mm.
- Incl. setting gauge
  (only 906.911 - 917: 50 mm,
  906.918: 150 mm).
- Delivery in a wooden case.


906.918

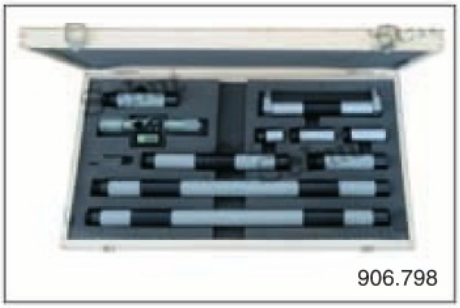
Item No.	Measuring range/mm	Number of extensions	Price EUR
906.911*	50 - 63	–	77.00
906.912	50 - 100	2	81.00
906.913	50 - 150	3	86.00
906.914	50 - 300	5	117.00
906.915	50 - 500	6	147.00
906.916	50 - 1000	8	489.00
906.917	50 - 1500	10	918.00
906.918	150 - 2000	9	1,051.00
906.919*	1000 - 1050	–	450.00
906.920	1000 - 2000	5	900.00
906.921	1000 - 3000	6	1,800.00
906.922	1000 - 4000	7	3,600.00
906.923	1000 - 5000	8	7,200.00

* Single instrument (without extensions).

Digital stick micrometer sets

- Measuring range: 150 - 2000 mm.
- Measuring range micrometer: 150 - 175 mm.
- Resolution: 0.001 mm.
- Locking screw.
- Spherical tungsten carbide measuring faces.
- With insulating grips
  (only 906.797 - 906.799).
- External diameter micrometer/extensions:
  22 mm.
- Incl. setting gauge: 150 mm.
- Delivery in a wooden case.


906.796


906.798

Item No.	Measuring range/mm	Number of extensions	Accuracy µm	Price EUR
906.796*	150 - 175	–	6.5	242.00
906.797	150 - 1000	6	29	508.00
906.798	150 - 1500	8	41	863.00
906.799	150 - 2000	9	52	982.00

* Single instrument (without extensions).

C04.321.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Inside micrometers with interchangeable anvils

Screw thread micrometers for internal measurements of pitch diameters. The interchangeable anvils allow measurements of several kinds of screw thread.

- Measuring range: 75 - 300 mm.
- Graduation: 0.01 mm.
- Locking screw (125 - 300 mm).
- Insert shaft: ø 5 mm.
- Delivery incl. setting gauge for metric thread, 60° flank angle.



Item No.	Measuring range/mm	Accuracy mm	Price EUR
Inside micrometers without inserts:			
906.924	75 - 100	±0.035	87.00
906.925	100 - 125	±0.035	98.00
906.926	125 - 150	±0.035	108.00
906.927	150 - 175	±0.035	118.00
906.928	175 - 200	±0.045	129.00
906.929	200 - 225	±0.045	139.00
906.930	225 - 250	±0.045	149.00
906.931	250 - 275	±0.045	160.00
906.932	275 - 300	±0.055	170.00

Item No.	Threads per inch	Price EUR
Inserts for Whitworth threads, 55° flank angle, per pair:		
906.940	60 - 48	22.30
906.941	48 - 40	22.30
906.942	40 - 32	22.30
906.944	32 - 24	22.30
906.945	24 - 18	22.30
906.946	18 - 14	22.30
906.947	14 - 10	22.30
906.948	10 - 7	22.30
906.949	7 - 4.5	22.30
906.950	4.5 - 3.5	22.30
906.951	Set 60 - 3.5	186.00

Item No.	Pitch/mm	Price EUR
Inserts for metric threads, 60° flank angle, per pair:		
906.933	0.4 - 0.5	22.30
906.934	0.6 - 0.9	22.30
906.935	1 - 1.75	22.30
906.936	2 - 3	22.30
906.937	3.5 - 5	22.30
906.938	5.5 - 7	22.30
906.939	Set 0.4 - 7	111.00

Item No.	Threads per inch	Price EUR
Inserts for UN, UNC and UNF threads, 60° flank angle, per pair:		
906.952	64 - 48	22.30
906.953	44 - 28	22.30
906.954	24 - 14	22.30
906.955	13 - 9	22.30
906.956	8 - 5	22.30
906.957	4.5 - 3.5	22.30
906.958	Set 64 - 3.5	111.00

C04.282.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Internal micrometers

Internal micrometers with special measuring jaws for measurements in hard-to-reach places.

- Measuring range: 5 - 200 mm.
- Analog: graduation 0.01 mm, digital: resolution 0.001 mm.
- Tungsten carbide cylindrical measuring faces.
- Internal micrometers within measuring range 5 - 50 mm are delivered incl. setting ring.
- Delivery in a plastic case.

Analog

- Matt chrome-plated design.

Digital

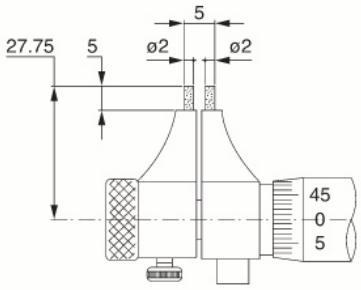
- mm/inch conversion.
- ABS/INC switchable.
- Automatic switch-off.
- Reset/preset.
- Power supply: 1 battery type V357.



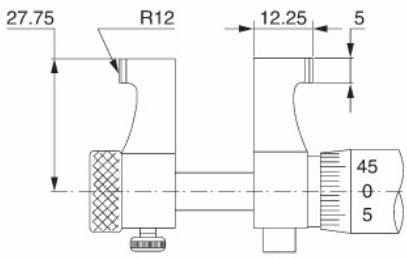
906.509



909.974



906.509 / 909.974



906.510-533 / 909.975-981



906.510-533 / 909.975-981

Item No.	Measuring range/mm	Accuracy mm	Price EUR
Analog:			
906.509	5 - 30	±0.005	58.00
906.510	25 - 50	±0.006	63.00
906.511	50 - 75	±0.007	73.00
906.512	75 - 100	±0.008	83.00
906.530	100 - 125	±0.009	93.00
906.531	125 - 150	±0.009	103.00
906.532	150 - 175	±0.010	113.00
906.533	175 - 200	±0.010	123.00
Digital:			
909.974	5 - 30	±0.005	163.00
909.975	25 - 50	±0.006	171.00
909.976	50 - 75	±0.007	178.00
909.977	75 - 100	±0.008	185.00
909.978	100 - 125	±0.009	192.00
909.979	125 - 150	±0.009	203.00
909.980	150 - 175	±0.010	214.00
909.981	175 - 200	±0.010	229.00
Option:			
836.535	Spare battery		0.80

C04.274.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

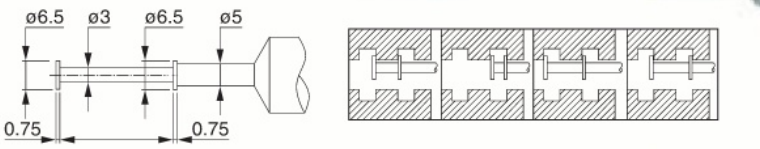
Groove micrometers

Micrometers for measuring e.g. steps in bores and internal cross grooves. With double graduation for internal and external measurements. By means of the disk-shaped measuring faces the wide, depth and location of grooves in bores can be determined.

- Measuring range:
  external measuring: 0 - 100 mm,
  internal measuring: 1.6 - 101.5 mm.
- Graduation: 0.01 mm.
- Accuracy: ±0.01 mm.
- Diameter measuring faces:
  907.137: 6.5 mm,
  907.138 - 907.141: 13 mm.
- Double graduation.

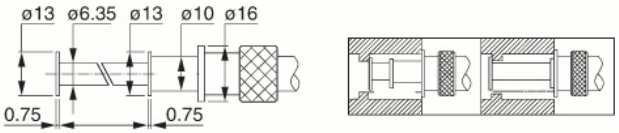


907.137



907.137



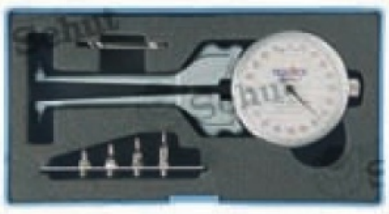


907.138 - 141

Item No.	Ext. measuring range/mm	Int. measuring range/mm	Price EUR
907.137	0 - 25	1.6 - 26.5	294.00
907.138	0 - 25	1.6 - 26.5	294.00
907.139	25 - 50	26.5 - 51.5	341.00
907.140	50 - 75	51.5 - 76.5	394.00
907.141	75 - 100	76.5 - 101.5	453.00

Two-point internal measuring instruments

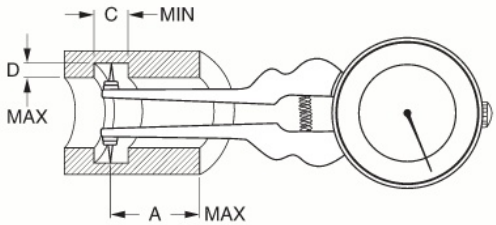
- Measuring range: 20 - 150 mm.
- Graduation: 0.01 mm.
- Interchangeable measuring inserts.
- Delivery in a plastic case with measuring inserts.





855.502

Item No.	Measuring range/mm	A_{max} mm	C_{min} mm	D_{max} mm	Price EUR
855.501	20 - 34	60	2	3	266.00
855.502	30 - 60	75	2.5	5	266.00
855.503	55 - 150	90	4	9	301.00



C04.281.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Diatest crankshaft meters

- Measuring range: 45 - 500 mm.
- Graduation: 0.01 mm.
- Rotatable dial.
- Delivery in a wooden case with dial indicator, counter-weight and extensions.





Item No.	Measuring range/mm	Price EUR
831.469	45 - 150	436.00
831.470	60 - 300	396.00
831.471	60 - 500	443.00
Options:		
831.472	Separate dial indicator for 831.469	252.00
831.473	Counterweight for 831.469	10.90
831.474	Separate dial indicator for 831.470 and 831.471	213.00
831.475	Counterweight for 831.470 and 831.471	12.00

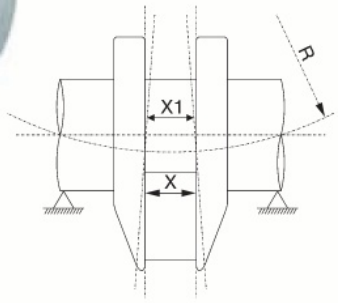


Crankshaft meters

- Measuring range: 60 - 500 mm.
- Graduation: 0.01 mm.
- Rotatable dial.
- Delivery in a wooden case with dial indicator, counter-weight and extensions.



907.917





907.919

PRICE

Item No.	Measuring range/mm	Price EUR
907.918	60 - 300	182.00
907.919	60 - 500	192.00
Option:		
907.917	Separate dial indicator	100.00

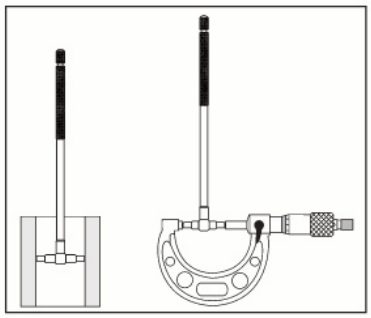
C04.229.EN.20230516

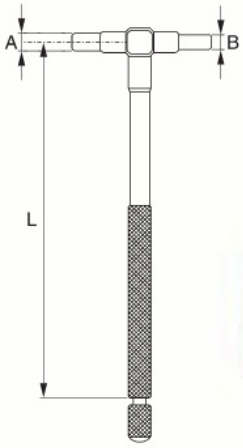
© 2023, Schut Geometrische Meettechniek bv

Telescopic gauges

In places that are hard to reach with standard measuring instruments, you can use these telescopic gauges. The spring gauge is put into the bore and centers itself, after that you can turn on the locking screw. Then the gauge is pulled out and you can measure the result, for instance with a micrometer.

- Measuring range: 8 - 150 mm.
- Chrome finished.







Individual gauges

Item No.	Measuring range/mm	Dimensions/mm L	A	B	Price EUR
906.604	8 - 12.7	102	4	3	5.30
906.605	12.7 - 19	102	5	4	5.30
906.606	19 - 32	102	5	4	5.30
906.607	32 - 54	127	7.5	6	5.30
906.608	54 - 90	127	7.5	6	5.30
906.609	90 - 150	127	7.5	6	5.70

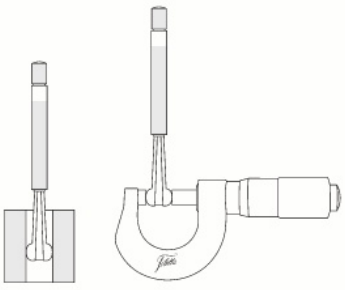
Set of gauges

Item No.	Measuring range/mm	Price EUR
906.610	8 - 150	26.20

Plug gauges for small bores (blind/through)

Ideal for measuring of small bores (blind and through) and grooves. The spring gauge is put into the bore and centers itself, after that you can turn on the locking screw. Then the gauge is pulled out and you can measure the result, for instance with a micrometer. Seperate set for blind bores and through bores.

- Measuring range: 3 - 13 mm (4 gauges: 3 - 5 mm, 5 - 7.5 mm, 7.5 - 10 mm and 10 - 13 mm).
- Chrome finished.





907.747



907.748

Set of gauges

Item No.	Description	Price EUR
907.747	For blind bores	20.50
907.748	For through bores	20.50

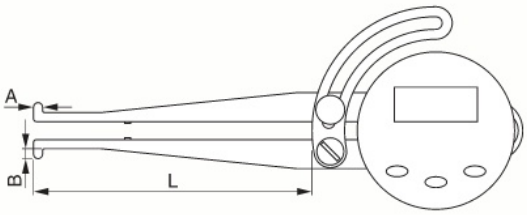
C04.236.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital internal measuring instrument

- Measuring range: 12.7 - 170 mm.
- Resolution: 0.1 mm.
- Accuracy: ±0.2 mm.
- mm/inch conversion.
- On/off switch.
- Automatic switch-off.
- Reset.
- Hold function.
- Locking screw.
- Power supply: 1 battery type CR2032.





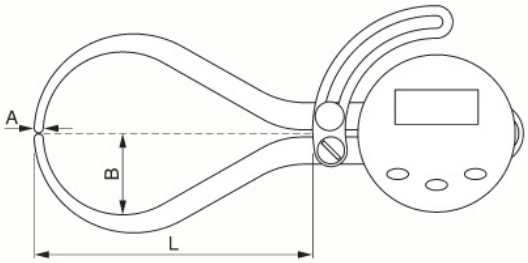
Item No.	Measuring range/mm	Length/mm L	A	B	Price EUR
909.409	12.7 - 170	85	3	3	65.00
Option:					
495.157	Spare battery				0.40

Digital external measuring instrument

- Measuring range: 0 - 160 mm.
- Resolution: 0.1 mm.
- Accuracy: ±0.2 mm.
- mm/inch conversion.
- On/off switch.
- Automatic switch-off.
- Reset.
- Hold function.
- Locking screw.
- Power supply: 1 battery type CR2032.



Item No.	Measuring range/mm	Length/mm L	A	B	Price EUR
909.408	0 - 160	85	3	25	65.00
Option:					
495.157	Spare battery				0.40



C04.314.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital internal measuring instruments

Digital internal measuring instruments for measurements of bores, internal grooves and other hard-to-reach places.

- Measuring range: 5 - 60 mm.
- Resolution: 0.005 mm. Digital-analog display changes automatically between 0.01, 0.02 and 0.05 mm (±20 scale divisions).
- mm/inch conversion.
- ABS/INC switchable.
- Large LCD display, 340° rotatable.
- On/off switch.
- Automatic switch-off.
- Reset/preset.
- Hold and min/max functions.
- Adjustable tolerance limits.
- Measuring faces with different contact points.
- Delivery in an aluminum case.
- Power supply: 1 battery type CR2032.

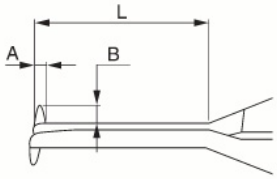


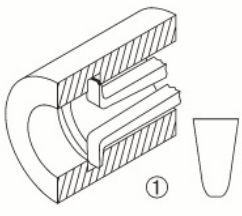
908.810

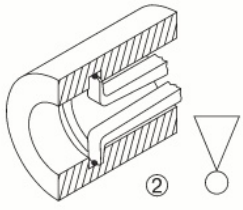
PRICE

Schut

Item No.	Measuring range/mm	Accuracy mm	Length/mm L	A	B	Contact point/mm	Price EUR
Range 10 mm:							
908.810	5 - 15	±0.02	20	1	1.5	① R 0.3	124.00
908.811	10 - 20	±0.02	25	1.5	3.0	① R 0.3	135.00
908.812	20 - 30	±0.02	30	2	6.5	① R 0.5	135.00
908.813	30 - 40	±0.02	30	2.5	9.0	① R 0.5	135.00
908.814	40 - 50	±0.02	30	2.5	9.0	① R 0.5	135.00
908.816	10 - 20	±0.02	25	1.5	3.0	② ø 1.5	155.00
908.817	20 - 30	±0.02	30	2	6.5	② ø 1.5	155.00
908.818	30 - 40	±0.02	30	2.5	9.0	② ø 1.5	155.00
908.819	40 - 50	±0.02	30	2.5	9.0	② ø 1.5	155.00
Range 20 mm:							
908.820	5 - 25	±0.03	35	1	1.5	① R 0.3	135.00
908.821	10 - 30	±0.03	55	2	3.5	① R 0.5	149.00
908.822	20 - 40	±0.03	80	3	6.5	① R 0.5	149.00
908.823	30 - 50	±0.03	80	3	8.5	① R 0.5	149.00
908.824	40 - 60	±0.03	80	3	8.5	① R 0.5	155.00
908.826	10 - 30	±0.03	55	2	3.5	② ø 1.5	171.00
908.827	20 - 40	±0.03	80	3	6.5	② ø 1.5	171.00
908.828	30 - 50	±0.03	80	3	8.5	② ø 1.5	171.00
908.829	40 - 60	±0.03	80	3	8.5	② ø 1.5	178.00
Option:							
495.157	Spare battery						0.40





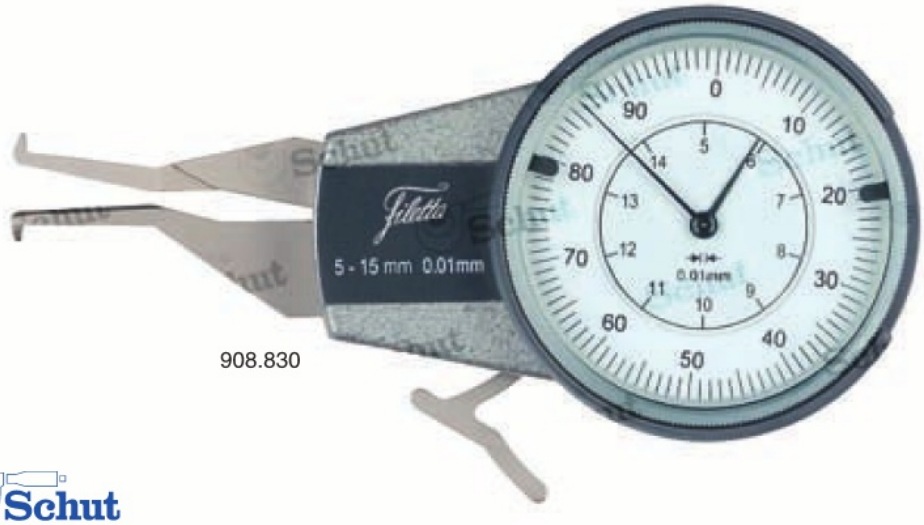


C04.306.EN.20230516

Internal measuring instruments

Internal measuring instruments for measurements of bores, internal grooves and other hard-to-reach places.

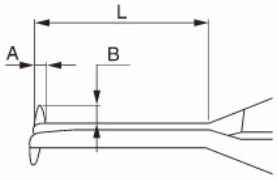
- Measuring range: 5 - 60 mm.
- Graduation: 0.01 mm.
- Rotatable dial.
- Adjustable tolerance markers.
- Measuring faces with different contact points.
- Delivery in an aluminum case.

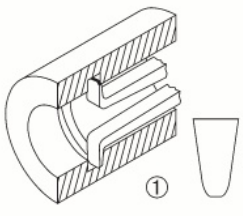


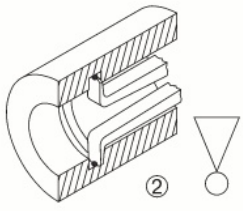
908.830

PRICE

Item No.	Measuring range/mm	Accuracy mm	Length/mm L	A	B	Contact point/mm	Price EUR
Range 10 mm:							
908.830	5 - 15	±0.02	20	1	1.5	① R 0.3	127.00
908.831	10 - 20	±0.02	25	1.5	3.0	① R 0.3	137.00
908.832	20 - 30	±0.02	30	2	6.5	① R 0.5	137.00
908.833	30 - 40	±0.02	30	2.5	9.0	① R 0.5	137.00
908.834	40 - 50	±0.02	30	2.5	9.0	① R 0.5	137.00
908.836	10 - 20	±0.02	25	1.5	3.0	② ø 1.5	158.00
908.837	20 - 30	±0.02	30	2	6.5	② ø 1.5	158.00
908.838	30 - 40	±0.02	30	2.5	9.0	② ø 1.5	158.00
908.839	40 - 50	±0.02	30	2.5	9.0	② ø 1.5	158.00
Range 20 mm:							
908.840	5 - 25	±0.03	35	1	1.5	① R 0.3	137.00
908.841	10 - 30	±0.03	55	2	3.5	① R 0.5	152.00
908.842	20 - 40	±0.03	80	3	6.5	① R 0.5	152.00
908.843	30 - 50	±0.03	80	3	8.5	① R 0.5	152.00
908.844	40 - 60	±0.03	80	3	8.5	① R 0.5	158.00
908.846	10 - 30	±0.03	55	2	3.5	② ø 1.5	175.00
908.847	20 - 40	±0.03	80	3	6.5	② ø 1.5	175.00
908.848	30 - 50	±0.03	80	3	8.5	② ø 1.5	175.00
908.849	40 - 60	±0.03	80	3	8.5	② ø 1.5	182.00







C04.308.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital external measuring instruments

Digital external measuring instruments for measurements of external grooves, axis diameters, wall thicknesses and other hard-to-reach places.

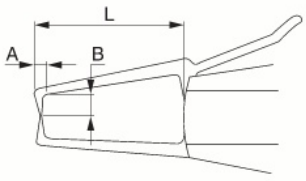
- Measuring range: 0 - 60 mm.
- Resolution: 0.005 mm. Digital-analog display changes automatically between 0.01, 0.02 and 0.05 mm (±20 scale divisions).
- mm/inch conversion.
- ABS/INC switchable.
- Large LCD display, 340° rotatable.
- On/off switch.
- Automatic switch-off.
- Reset/preset.
- Hold and min/max functions.
- Adjustable tolerance limits.
- Measuring faces with different contact points.
- Delivery in an aluminum case.
- Power supply: 1 battery type CR2032.

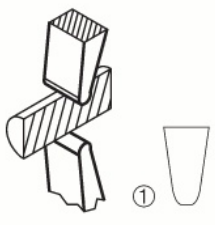


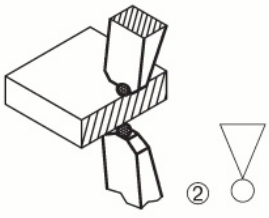
908.850

PRICE

Item No.	Measuring range/mm	Accuracy mm	Length/mm L	A	B	Contact point/mm	Price EUR
Range 10 mm:							
908.850	0 - 10	±0.02	40	3	8	① R 0.5	124.00
908.851	10 - 20	±0.02	40	3	8	① R 0.5	135.00
908.852	20 - 30	±0.02	40	3	8	① R 0.5	135.00
908.853	30 - 40	±0.02	40	3	8	① R 0.5	135.00
908.854	40 - 50	±0.02	40	3	8	① R 0.5	135.00
908.855	0 - 10	±0.02	40	3	8	② ø 1.5	143.00
908.856	10 - 20	±0.02	40	3	8	② ø 1.5	155.00
908.857	20 - 30	±0.02	40	3	8	② ø 1.5	155.00
908.858	30 - 40	±0.02	40	3	8	② ø 1.5	155.00
908.859	40 - 50	±0.02	40	3	8	② ø 1.5	155.00
Range 20 mm:							
908.860	0 - 20	±0.03	80	6.5	25	① R 0.75	135.00
908.861	10 - 30	±0.03	80	6.5	25	① R 0.75	149.00
908.862	20 - 40	±0.03	80	6.5	25	① R 0.75	149.00
908.863	30 - 50	±0.03	80	6.5	25	① R 0.75	149.00
908.864	40 - 60	±0.03	80	6.5	25	① R 0.75	155.00
908.865	0 - 20	±0.03	80	6.5	25	② ø 1.5	155.00
908.866	10 - 30	±0.03	80	6.5	25	② ø 1.5	171.00
908.867	20 - 40	±0.03	80	6.5	25	② ø 1.5	171.00
908.868	30 - 50	±0.03	80	6.5	25	② ø 1.5	171.00
908.869	40 - 60	±0.03	80	6.5	25	② ø 1.5	178.00
Option:							
495.157	Spare battery						0.40







C04.307.EN.20230516

External measuring instruments

External measuring instruments for measurements of external grooves, axis diameters, wall thicknesses and other hard-to-reach places.

- Measuring range: 0 - 60 mm.
- Graduation: 0.01 mm.
- Rotatable dial.
- Adjustable tolerance markers.
- Measuring faces with different contact points.
- Delivery in an aluminum case.

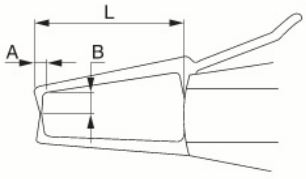


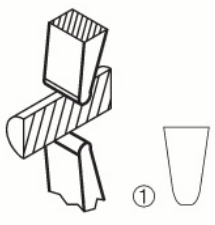
908.870

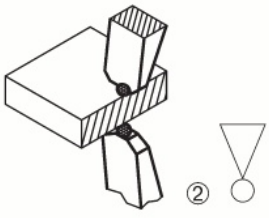
Schut

PRICE

Item No.	Measuring range/mm	Accuracy mm	Length/mm L	A	B	Contact point/mm	Price EUR
Range 10 mm:							
908.870	0 - 10	±0.02	40	3	8	① R 0.5	127.00
908.871	10 - 20	±0.02	40	3	8	① R 0.5	137.00
908.872	20 - 30	±0.02	40	3	8	① R 0.5	137.00
908.873	30 - 40	±0.02	40	3	8	① R 0.5	137.00
908.874	40 - 50	±0.02	40	3	8	① R 0.5	137.00
908.875	0 - 10	±0.02	40	3	8	② ø 1.5	146.00
908.876	10 - 20	±0.02	40	3	8	② ø 1.5	158.00
908.877	20 - 30	±0.02	40	3	8	② ø 1.5	158.00
908.878	30 - 40	±0.02	40	3	8	② ø 1.5	158.00
908.879	40 - 50	±0.02	40	3	8	② ø 1.5	158.00
Range 20 mm:							
908.880	0 - 20	±0.03	80	6.5	25	① R 0.75	137.00
908.881	10 - 30	±0.03	80	6.5	25	① R 0.75	152.00
908.882	20 - 40	±0.03	80	6.5	25	① R 0.75	152.00
908.883	30 - 50	±0.03	80	6.5	25	① R 0.75	152.00
908.884	40 - 60	±0.03	80	6.5	25	① R 0.75	158.00
908.885	0 - 20	±0.03	80	6.5	25	② ø 1.5	158.00
908.886	10 - 30	±0.03	80	6.5	25	② ø 1.5	175.00
908.887	20 - 40	±0.03	80	6.5	25	② ø 1.5	175.00
908.888	30 - 50	±0.03	80	6.5	25	② ø 1.5	175.00
908.889	40 - 60	±0.03	80	6.5	25	② ø 1.5	182.00







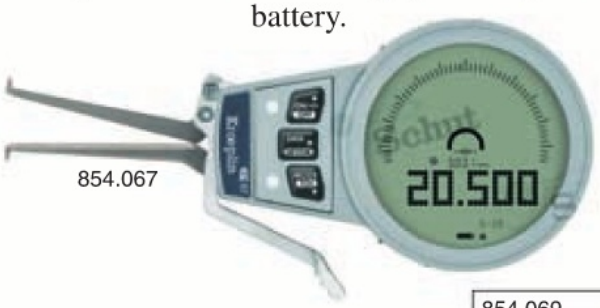
C04.309.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Krœplin digital internal and external measuring instruments

Krœplin's new generation of QuickTest measuring instruments has a compact, ergonomical design.The digital-analog display makes read-out easier. Now with wireless rechargeable battery and Bluetooth data interface.

- Measuring range: 0 - 25 mm.
- Resolution: 0.001, 0.002, 0.005, 0.01, 0.02 or 0.05 mm, adjustable.
- mm/inch conversion.
- ABS/INC switchable.
- Mitutoyo Digimatic, Mitutoyo U-WAVE, USB or Bluetooth data outputs optionally available.
- With tolerance display by means of red/green LED.
- Hold and min/max functions.
- Bluetooth: up to 8 gauges simultaneously.
- Automatic switch-off.
- Storage for 100 measuring values.
- Reset/preset.
- Protection: IP67.
- Wireless charging.
- Delivery with a manufacturer measuring report and charging pad.
- Power supply: rechargeable li-polymer battery.

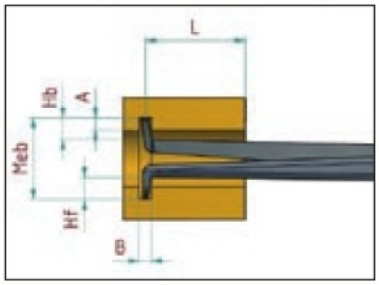


Item No.	Measuring range/mm	Resolution mm	Accuracy mm	Repeatability mm	Price EUR
Internal measuring instruments:					
854.066	2.5 - 12.5	0.001	±0.01	0.005	479.30
854.067	5 - 20	0.001	±0.01	0.005	479.30
854.068	10 - 25	0.001	±0.01	0.005	479.30
External measuring instruments:					
854.069	0 - 15	0.001	±0.01	0.005	479.30
854.070	0 - 15	0.001	±0.015	0.005	479.30
Options:					
854.071	Digimatic interface				102.00
965.013[1]	Digimatic cable				70.00
206.380[1]	USB cable				121.00
102.790[1]	U-WAVE cable				96.00
854.072[2]	Bluetooth interface adapter				102.00
854.073	Bluetooth PC dongle				9.30
854.074	Wooden case				45.90

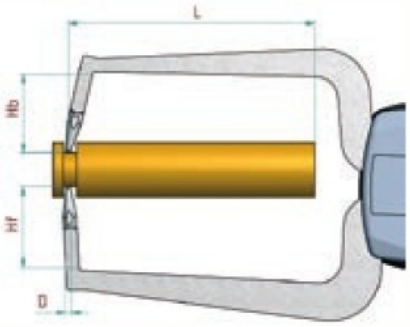
[1] For data output the Digimatic interface and cable are needed.
[2] Bluetooth interface adapter is delivered with a Bluetooth PC dongle (854.073).







Item No.	Meas. depth L/mm	Groove depth A/mm	Groove width B/mm	Type of insert	Insert length Hb/mm	Insert length Hf/mm
854.066	12	0.7	0.6	① R0.12	0.9	0.9
854.067	44	2.2	0.8	② ø0.6	2.2	2.2
854.068	46	4	1.5	② ø1	4.4	4.4
854.069	45	–	–	③ ø1.5	17	17
854.070	45	–	–	④ R0.4	12	12



See for ① and ②: ① and ② on the page "Overview Krœplin internal measuring instruments".
See for ③ and ④: ① and ② on the page "Overview Krœplin external measuring instruments".

C04.319.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Krœplin digital internal measuring instruments

Krœplin's new generation of quicktest measuring instruments has a compact, ergonomical design. The digital-analog display makes read-out easier.

- Measuring range: 2.5 - 200 mm.
- Resolution: 0.001, 0.002, 0.005, 0.01, 0.02 or 0.05 mm, adjustable.
- mm/inch conversion.
- ABS/INC switchable.
- Mitutoyo Digimatic, Mitutoyo U-WAVE, Bluetooth and USB data outputs optionally available.
- Automatic switch-off.
- Storage for 100 measuring values.
- Reset/preset.
- With tolerance display by means of red/green LED.
- Hold and min/max functions.
- Protection: IP67.
- Delivery with a manufacturer measuring report.
- Power supply: 2 batteries type AAA.



854.915

Item No.	Measuring range/mm	Accuracy mm	Repeatability mm	Price EUR
854.913①	2.5 - 12.5	±0.015	0.005	428.20
854.914①	5 - 15	±0.015	0.005	428.20
854.915①	10 - 30	±0.03	0.01	428.20
854.916①	20 - 40	±0.03	0.01	428.20
854.917①	30 - 50	±0.03	0.01	428.20
854.918①	40 - 60	±0.03	0.01	428.20
854.919①	50 - 70	±0.03	0.01	428.20
854.920①	60 - 80	±0.03	0.01	428.20
854.921①	70 - 90	±0.03	0.01	428.20
854.960①	80 - 100	±0.03	0.01	428.20
854.012②	13 - 43	±0.04	0.02	428.20
854.013②	30 - 60	±0.04	0.02	428.20
854.014②	50 - 80	±0.04	0.02	428.20
854.015②	70 - 100	±0.04	0.02	428.20
854.016②	90 - 120	±0.04	0.02	428.20
854.017②	15 - 65	±0.05	0.03	592.20
854.018②	40 - 90	±0.05	0.03	592.20
854.042②	70 - 120	±0.05	0.03	592.20
854.100②	100 - 150	±0.05	0.03	592.20
854.700*	150 - 200	±0.05	0.03	635.80

Options:		
497.914	Spare battery type AAA	0.80
854.952[1]	Interface	45.90
965.013[1]	Digimatic cable	70.00
206.380[1]	USB cable	121.00
102.790[1]	U-WAVE cable	96.00
854.092[2]	Bluetooth interface adapter (only K and L series)	106.30
854.073	Bluetooth PC dongle	9.30
854.113①	Wooden case (only K and L series)	52.00
854.084②	Wooden case (only K and L series)	52.80

[1] For data output an interface and cable are needed.
[2] Bluetooth interface adapter is delivered with a Bluetooth PC dongle (854.073).
* Delivery incl. wooden case.



854.113

For specifications refer to the Krœplin internal measuring instruments overview.

C04.301.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Krœplin internal measuring instruments Intertest

Measuring instruments for accurate and reliable measurements of internal dimensions.

- Measuring range: 2.5 - 430 mm.
- Graduation: 0.005, 0.01, 0.05, 0.1 or 0.2 mm.
- Very fine tolerances on the various parts.
- Impact and shock-resistant housing.
- Dust and drip proof.
- Damped movement of the measuring arm.
- Adjustable tolerance markers.
- Protection: IP65.
- Delivery with a manufacturer measuring report.



854.922



854.924

Item No.	Meas. range mm	Graduation mm	Accuracy mm	Repeatability mm	Price EUR
854.922①	2.5 - 12.5	0.005	±0.015	0.005	416.50
854.923①	5 - 15	0.005	±0.015	0.005	416.50
854.924①	10 - 30	0.01	±0.03	0.01	416.50
854.925①	20 - 40	0.01	±0.03	0.01	416.50
854.926①	30 - 50	0.01	±0.03	0.01	416.50
854.927①	40 - 60	0.01	±0.03	0.01	416.50
854.928①	50 - 70	0.01	±0.03	0.01	416.50
854.929①	60 - 80	0.01	±0.03	0.01	416.50
854.930①	70 - 90	0.01	±0.03	0.01	416.50
854.931①	80 - 100	0.01	±0.03	0.01	416.50
854.019②	15 - 65	0.05	±0.05	0.025	479.30
854.020②	40 - 90	0.05	±0.05	0.025	479.30
854.021②	70 - 120	0.05	±0.05	0.025	552.20
854.022②	100 - 150	0.05	±0.05	0.025	552.20
854.023*	130 - 180	0.05	±0.05	0.025	552.20
854.024*	150 - 200	0.05	±0.05	0.025	592.20
854.227*	50 - 150	0.1	±0.15	0.1	904.40
854.228*	70 - 170	0.1	±0.15	0.1	904.40
854.361*	90 - 190	0.1	±0.3	0.1	1,117.00
854.360*	150 - 250	0.1	±0.3	0.1	1,117.00
854.362*	200 - 400	0.2	±0.4	0.2	1,198.60
Options:					
859.233① Wooden case					31.10
854.098② Wooden case					45.90

* Delivery incl. wooden case.

For specifications refer to the Krœplin internal measuring instruments overview.

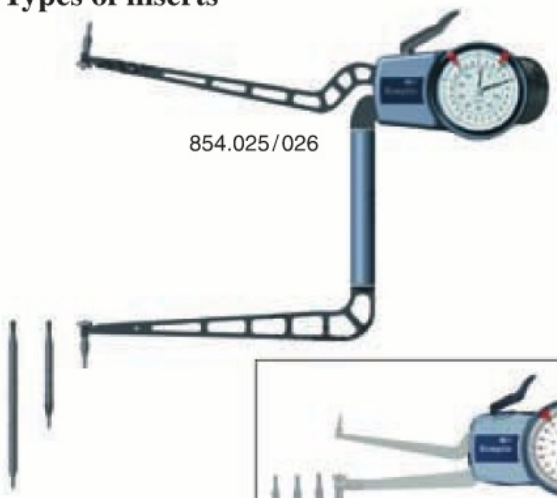

859.233

Item No.	Meas. range mm	Graduation mm	Accuracy mm	Repeatability mm	Price EUR
854.932*	50 - 100	0.01	±0.03	0.015	635.80
854.933*	90 - 140	0.01	±0.03	0.015	635.80
854.957*	130 - 180	0.01	±0.03	0.015	682.20
854.025*	180 - 310	0.05	±0.1	0.05	731.80
854.026*	300 - 430	0.05	±0.15	0.05	785.50

* Delivery incl. wooden case.

Schut

Types of inserts


854.025/026


854.932/933/957

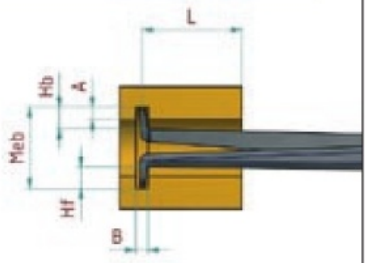
C04.238.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Overview Krœplin internal measuring instruments

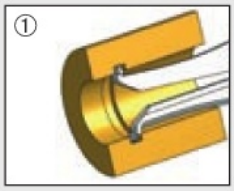
Item No.	Measuring range mm	Meas. depth L/mm	Groove depth A/mm	Groove width B/mm	Type of insert	Insert length/mm Hb	Hf
Digital internal measuring instruments:							
854.913	2.5 - 12.5	12	0.7	0.5	① R0.12	0.9	0.9
854.914	5 - 15	35	2.3	0.8	② ø0.6	2.5	2.5
854.915	10 - 30	85	5.2	1.5	② ø1	5.3	5.3
854.916	20 - 40	85	7	1.5	② ø1	7.3	7.3
854.917	30 - 50	85	7	1.5	② ø1	7.3	7.3
854.918	40 - 60	85	8.3	1.5	③ ø1	8.5	8.5
854.919	50 - 70	85	8.3	1.5	③ ø1	8.5	8.5
854.920	60 - 80	85	8.3	1.5	③ ø1	8.5	8.5
854.921	70 - 90	85	8.3	1.5	③ ø1	8.5	8.5
854.960	80 - 100	85	8.3	1.5	③ ø1	8.5	8.5
854.012	13 - 43	127	5.7	1.6	② ø1.3	5.9	5.9
854.013	30 - 60	132	6.2	1.8	③ ø1.5	6.5	6.5
854.014	50 - 80	132	8.3	2.5	③ ø2	8.5	8.5
854.015	70 - 100	132	8.3	2.5	③ ø2	8.5	8.5
854.016	90 - 120	132	8.3	2.5	③ ø2	8.5	8.5
854.017	15 - 65	188	5.5	2	② ø1.5	6	6
854.018	40 - 90	192	8.3	2.5	③ ø2	8.5	8.5
854.042	70 - 120	192	8.3	2.5	③ ø2	8.5	8.5
854.100	100 - 150	192	8.3	2.4	③ ø2	8.5	8.5
854.700	150 - 200	192	8.3	2.4	③ ø2	8.5	8.5
Internal measuring instruments Intertest:							
854.922	2.5 - 12.5	12	0.7	0.5	① R0.12	0.9	0.9
854.923	5 - 15	35	2.3	0.8	② ø0.6	2.5	2.5
854.924	10 - 30	85	5.2	1.5	② ø1	5.3	5.3
854.925	20 - 40	85	7	1.5	② ø1	7.3	7.3
854.926	30 - 50	85	7	1.5	② ø1	7.3	7.3
854.927	40 - 60	85	8.3	1.5	③ ø1	8.5	8.5
854.928	50 - 70	85	8.3	1.5	③ ø1	8.5	8.5
854.929	60 - 80	85	8.3	1.5	③ ø1	8.5	8.5
854.930	70 - 90	85	8.3	1.5	③ ø1	8.5	8.5
854.931	80 - 100	85	8.3	1.5	③ ø1	8.5	8.5
854.019	15 - 65	188	5.5	2	② ø1.5	6	6
854.020	40 - 90	192	8.3	2.5	③ ø2	8.5	8.5
854.021	70 - 120	192	8.3	2.5	③ ø2	8.5	8.5
854.022	100 - 150	192	8.3	2.4	③ ø2	8.5	8.5
854.023	130 - 180	192	8.3	2.4	③ ø2	8.5	8.5
854.024	150 - 200	192	8.3	2.4	③ ø2	8.5	8.5
854.227	50 - 150	395	3	5.5	④ ø5	4	4
854.228	70 - 170	395	13	5.5	④ ø5	14	14
854.361	90 - 190	535	12	5.5	④ ø5	13	13
854.360	150 - 250	535	29	5.5	④ ø5	30	30
854.362	200 - 400	720	28	21	⑤ SR20	29	29

Item No.	Measuring range mm	Number of inserts	Measuring range per insert/mm	Meas. depth L/mm	Type of insert	Insert length/mm Hb	Hf
Internal measuring instruments Intertest:							
854.932	50 - 100	4	20	85	③ ø1	12	21/31/41/51
854.933	90 - 140	4	20	85	③ ø1	12	21/31/41/51
854.957	130 - 180	4	20	85	③ ø1	12	21/31/41/51
854.025	180 - 310	3	50	170	③ ø2	21	20/60/100
854.026	300 - 430	3	50	170	③ ø2	21	20/60/100

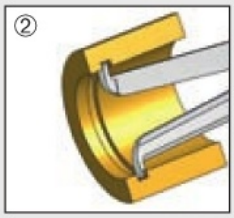


Schut

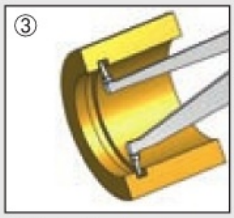
Types of inserts



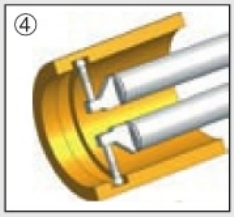
R=0.1 mm



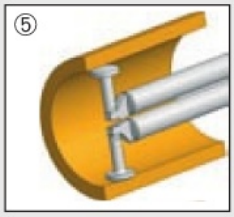
TC-ball
ø0.6, 1, 1.3 or 1.5 mm



TC-ball ø1 or 2 mm



ø5 mm



SR 20 mm

C04.239.EN.20230516

Wooden cases for Krœplin internal and external measuring instruments

Wooden cases of high quality with foam inlay for Krœplin internal and external measuring instruments. For more information please contact our sales department.



Item No.	Description	Price EUR
854.113	Wooden case for K1.., K2.., L1.., L2.. models	52.00
854.084	Wooden case for K3.., K4.., L3.., L4.. models	52.80
859.233	Wooden case for C1.., C2.., D1.., D2.., G1.., G2.., H1.., H2.. models	31.10
854.098	Wooden case for C3.., C4.., D4.., G3.., G4.., H4.. models	45.90
854.074	Wooden case for C0.., G0.. models	45.90

Holders for Krœplin internal and external measuring instruments

These holders are intended for mounting Krœplin internal and external measuring instruments in your measurement setup. With the ø 8 mm clamping shank, these holders can be used with most dial indicator stands. For these stands see dial indicator stands elsewhere in the catalog. For more information please contact our sales department.



Item No.	Description	Price EUR
854.725	Holder for K and L models	88.00
854.850	Holder for C1.., C2.., D1.., D2.., G1.., G2.., H1.., H2.. models	88.00
854.711	Holder for C3.., C4.., D4.., G3.., G4.., H4.. models	88.00
854.980	Holder for C0.., G0.. models	88.00

C04.337.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Krœplin digital external measuring instruments

Krœplin's new generation of QuickTest measuring instruments has a compact, ergonomical design. The digital-analog display makes read-out easier.

- Measuring range: 0 - 50 mm.
- Resolution: 0.001, 0.002, 0.005, 0.01, 0.02 or 0.05 mm, adjustable.
- mm/inch conversion.
- ABS/INC switchable.
- Mitutoyo Digimatic, Mitutoyo U-WAVE, Bluetooth and USB data outputs optionally available.
- Automatic switch-off.
- Storage for 100 measuring values.
- Reset/preset.
- With tolerance display by means of red/green LED.
- Hold and min/max functions.
- Protection: IP67.
- Delivery with a manufacturer measuring report.
- Power supply: 2 batteries type AAA.



854.908

Item No.	Measuring range/mm	Accuracy mm	Repeatability mm	Price EUR
854.905①	0 - 10	±0.015	0.005	428.20
854.961①	0 - 10	±0.015	0.005	428.20
854.906①	0 - 10	±0.02	0.005	428.20
854.907①	0 - 10	±0.015	0.005	428.20
854.962①	0 - 10	±0.015	0.005	428.20
854.908①	0 - 20	±0.03	0.01	428.20
854.963①	0 - 20	±0.03	0.01	428.20
854.955①	0 - 20	±0.04	0.01	428.20
854.950①	0 - 20	±0.03	0.01	428.20
854.956①	0 - 20	±0.03	0.01	428.20
854.027②	0 - 30	±0.04	0.02	428.20
854.036②	0 - 30	±0.04	0.02	428.20
854.029②	0 - 30	±0.06	0.04	428.20
854.028②	0 - 30	±0.04	0.02	428.20
854.037②	0 - 30	±0.04	0.02	428.20
854.030②	0 - 50	±0.05	0.03	592.20
854.032②	0 - 50	±0.06	0.04	592.20
854.031②	0 - 50	±0.05	0.03	592.20

Options:		
497.914	Spare battery type AAA	0.80
854.952[1]	Interface	45.90
965.013[1]	Digimatic cable	70.00
206.380[1]	USB cable	121.00
102.790[1]	U-WAVE cable	96.00
854.092[2]	Bluetooth interface adapter (only K and L series)	106.30
854.073	Bluetooth PC dongle	9.30
854.113①	Wooden case (only K and L series)	52.00
854.084②	Wooden case (only K and L series)	52.80

[1] For data output an interface and cable are needed.
[2] Bluetooth interface adapter is delivered with a Bluetooth PC dongle (854.073).


854.113

For specifications refer to the Krœplin external measuring instruments overview.

C04.312.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Krœplin external measuring instruments Oditest

External measuring instrument in a version which is highly accurate and reliable.

- Measuring range: 0 - 200 mm.
- Graduation: 0.005, 0.01, 0.05, 0.1 or 0.2 mm.
- Very fine tolerances on the various parts.
- Impact and shock-resistant housing.
- Dust and drip proof.
- Damped movement of the measuring arm.
- Adjustable tolerance markers.
- Protection: IP65.
- Delivery with a manufacturer measuring report.



854.934

For specifications refer to the Krœplin external measuring instruments overview.

Item No.	Meas. range mm	Graduation mm	Accuracy mm	Repeatability mm	Price EUR
854.909	0 - 10	0.005	±0.015	0.005	416.50
854.910	0 - 10	0.005	±0.02	0.005	416.50
854.911	0 - 10	0.005	±0.015	0.005	416.50
854.912	0 - 10	0.005	±0.015	0.005	416.50
854.934	0 - 20	0.01	±0.03	0.01	416.50
854.935	0 - 20	0.01	±0.03	0.01	416.50
854.936	0 - 20	0.01	±0.04	0.01	416.50
854.937	0 - 20	0.01	±0.03	0.01	416.50
854.938	0 - 20	0.01	±0.03	0.01	416.50
854.033	0 - 50	0.05	±0.05	0.025	479.30
854.034	0 - 50	0.05	±0.05	0.025	479.30
854.035	0 - 50	0.05	±0.1	0.05	514.60
854.038	0 - 50	0.05	±0.05	0.025	479.30
854.039	0 - 50	0.05	±0.05	0.025	479.30
Options:					
859.233	Wooden case				31.10
854.098	Wooden case				45.90

Item No.	Meas. range mm	Graduation mm	Accuracy mm	Repeatability mm	Price EUR
854.225*	0 - 100	0.1	±0.15	0.1	904.40
854.109*	0 - 100	0.1	±0.15	0.1	904.40
854.226*	0 - 100	0.1	±0.15	0.1	904.40
854.363*	0 - 100	0.1	±0.3	0.2	1,117.00
854.364*	0 - 100	0.1	±0.3	0.2	1,198.60
854.365*	0 - 100	0.1	±0.3	0.2	1,198.60
854.366*	0 - 200	0.2	±0.4	0.2	1,198.60

* Delivery incl. wooden case.



859.233

C04.241.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

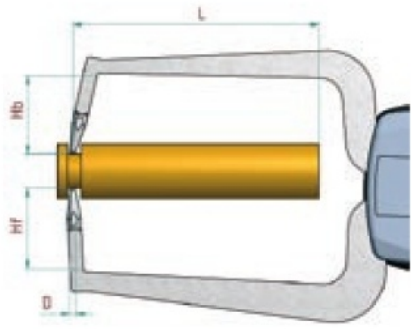
Overview Krœplin external measuring instruments

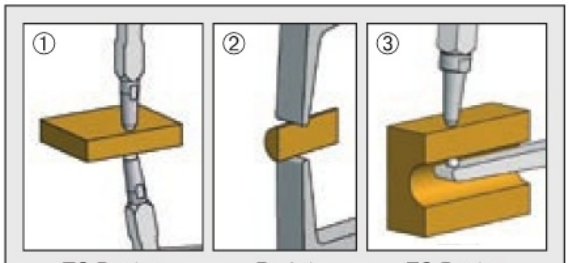
External measuring instruments Oditest

Item No.	Measuring range/mm	Meas. depth L/mm	Type of insert	Insert length Hb	Hf
854.909	0- 10	35	① ø1.5	19.1	18.6
854.910	0- 10	35	⑦ ø6	21.7	14.8
854.911	0- 10	35	③ ø1.5	19.1	0.9
854.912	0- 10	35	④ R0.4	18.8	0.9
854.934	0- 20	85	① ø1.5	24.7	24.6
854.935	0- 20	85	② R0.4	24.7	24.6
854.936	0- 20	85	⑦ ø10	28.2	20.7
854.937	0- 20	80	⑤ ø1.5	24.7	2.5
854.938	0- 20	80	⑥ R0.4	24.7	2.5
854.033	0- 50	167	① ø3	30	30
854.034	0- 50	167	② R0.75	30	30
854.035	0- 50	167	⑦ ø50	36	24
854.038	0- 50	169	③ ø3	30	4.3
854.039	0- 50	169	④ R0.75	30	4.3
854.225	0-100	375	⑧ ø5	33	33
854.109	0-100	382	⑨ ø5	35	15
854.226	0-100	375	⑦ ø50	39	7
854.363	0-100	530	⑧ ø5	30	30
854.364	0-100	530	⑧ ø5	30	124
854.365	0-100	550	⑦ ø50	34	14
854.366	0-200	728	⑩ 20	98	98

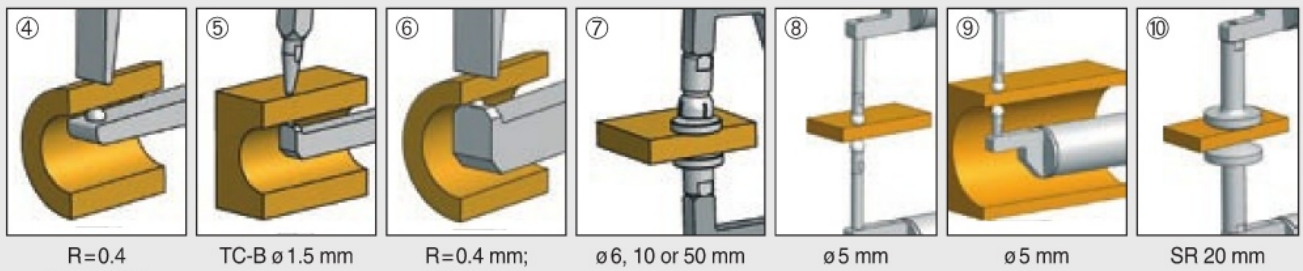
Digital external measuring instruments

Item No.	Measuring range/mm	Meas. depth L/mm	Type of insert	Insert length Hb	Hf
854.905	0-10	35	① ø1.5	19.1	18.6
854.961	0-10	35	② R0.4	18.8	18.5
854.906	0-10	35	⑦ ø6	21.7	14.8
854.907	0-10	35	③ ø1.5	19.1	0.9
854.962	0-10	35	④ ø1.5	18.8	0.9
854.908	0-20	85	① ø1.5	24.7	24.6
854.963	0-20	85	② R0.4	24.7	24.6
854.955	0-20	85	⑦ ø10	28.2	20.7
854.950	0-20	80	⑤ ø1.5	24.7	2.5
854.956	0-20	80	⑥ ø1.5	24.7	2.5
854.027	0-30	116	① ø3	30	30
854.036	0-30	116	② R0.75	30	30
854.029	0-30	116	⑦ ø50	36	24
854.028	0-30	116	⑤ ø3	30	4
854.037	0-30	116	⑥ ø3	30	4
854.030	0-50	167	① ø3	30	30
854.032	0-50	167	⑦ ø50	36	24
854.031	0-50	169	⑤ ø3	30	4.3





Types of inserts



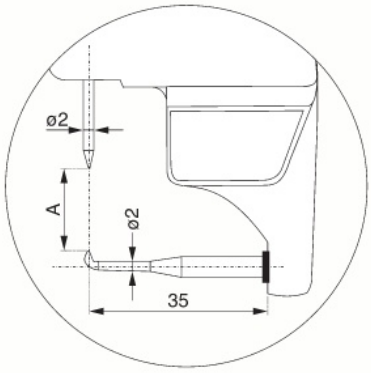
C04.243.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital thickness gauge

This digital thickness gauge has special, pointed measuring faces for measuring in hard-to-reach places of metal parts.

- Measuring range: 0 - 15 mm.
- Resolution: 0.01 mm.
- Accuracy: ±0.03 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Weight: 100 g.
- Power supply: 1 battery type V357.





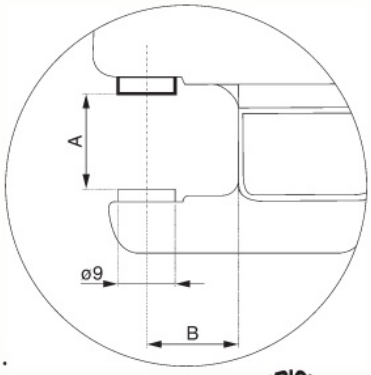
PRICE

Item No.	Measuring face	Throat depth/mm	Price EUR
906.450	Pointed	35	117.00
Option:			
836.535	Spare battery		0.80

Digital thickness gauges

The shape of the measuring faces makes this digital thickness gauge especially suitable for measuring metal or plastic film, leather, paper, etc.

- Measuring range: 0 - 25 mm.
- Resolution: 0.01 mm.
- Accuracy:
  0 - 15 mm: ±0.03 mm,
  0 - 25 mm: ±0.04 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Weight: 100 g.
- Power supply: 1 battery type V357.



PRICE

Item No.	Measuring range/mm	Measuring face ø/mm	Throat depth/mm	Price EUR
906.451	0 - 15	9	15.0	112.00
906.452	0 - 25	9	14.5	150.00
Option:				
836.535	Spare battery			0.80



906.451

C04.244.EN.20230516

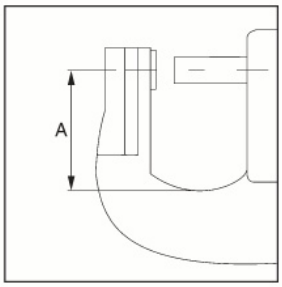
Digital quick thickness gauges

- Measuring range: 0 - 25 mm.
- Resolution: 0.01 mm.
- Accuracy 910.313: ±0.03 mm.
- Accuracy 910.314: ±0.04 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Anvil 910.313: ø6.3 mm.
- Pin measuring face 910.313: ø5 mm.
- Measuring face 910.314: ø14.5 mm.
- Power supply: 1 battery type V357.


910.313


910.314

PRICE



Item No.	Measuring range/mm	Throat depth A/mm	Price EUR
910.313	0 - 12	19.7	130.00
910.314	0 - 25	25	169.00
Option:			
836.535	Spare battery		0.80

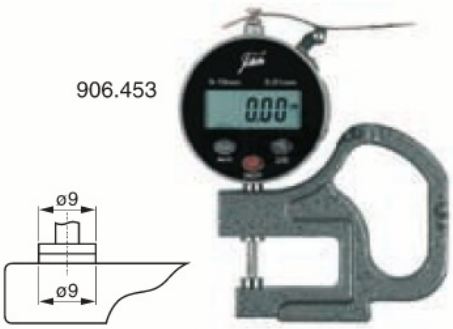
Digital external measuring instruments

- Measuring range: 0 - 10 mm.
- Resolution: 0.01 mm.
- Repeatability: 0.01 mm.
- mm/inch conversion.
- Automatic switch-off.
- Reset.
- Max. measuring speed: 1.5 m/s.
- Non-interchangeable inserts.
- Power supply: 1 battery type V357.


906.454

PRICE

906.453



Item No.	Measuring range/mm	Measuring faces ø/mm	Throat depth/mm	Price EUR
906.453	0 - 10	9	30	130.00
906.454	0 - 10	9	120	163.00
Option:				
836.535	Spare battery			0.80

C04.336.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Thickness gauges

- Measuring range: 0 - 20 mm.
- Graduation: 0.01 mm.
- Rotatable dial.
- Non-interchangeable inserts.
- Measuring face: ø 10 mm (906.446: ø 6 mm).



906.446



906.447



906.448

PRICE

Item No.	Measuring range/mm	Throat depth/mm	Price EUR
906.446	0 - 10	10	43.00
906.447	0 - 10	30	62.00
906.448	0 - 20	110	94.00

Thickness gauges with roller measuring inserts

- Measuring range: 0 - 10 mm.
- Measuring face roller measuring inserts: 7 mm / ø 22 mm.
- Throat depth: 100 mm.
- Anvil: 28 x 22 mm (3 mm wheel height in anvil).

Analog

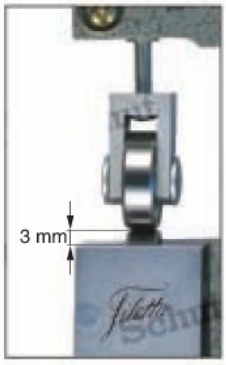
- Graduation: 0.01 mm.
- Rotatable dial with locking screw.
- Adjustable tolerance markers.

Digital

- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Power supply: 1 battery type CR2032.



906.388





906.389

PRICE

Item No.	Description	Price EUR
906.388	Thickness gauge	110.00
906.389	Digital thickness gauge	153.00
Option:		
495.157	Spare battery	0.40

C04.246.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Käfer thickness gauges

- Measuring range: 0 - 50 mm.
- Graduation: 0.1 mm, 0.01 mm or 0.001 mm.
- Standard type of insert: C, ø 10 mm.
- Interchangeable measuring inserts.
- Different types of inserts available (a, b, c, d, e).

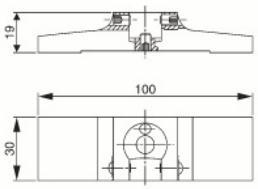


Item No.	Measuring range/mm	Graduation mm	Throat depth/mm	Price EUR
852.346	0 - 10	0.1	50	128.00
851.714	0 - 20	0.1	50	129.00
852.370	0 - 30	0.1	50	148.00
852.747	0 - 50	0.1	50	224.00
852.100	0 - 30	0.1	100	168.00
852.277	0 - 30	0.1	200	193.00
851.819	0 - 30	0.1	300	224.00
851.969	0 - 30	0.1	400	255.00
851.713	0 - 10	0.01	50	147.00
851.785	0 - 10	0.01	100	185.00
851.702	0 - 10	0.01	200	223.00
851.816	0 - 5	0.001	50	229.00

Options:

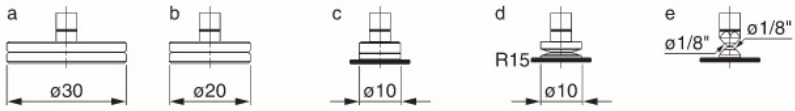
495.157	Spare battery	0.40
852.716*	Stand for thickness gauges	79.00

* For thickness gauges with a throat depth of 100 mm or less.



852.716


852.716



Rubber, felt, soft materials | Standard contact point Soft leather, cardboard, foils | Hard leather, fibrous plates | Sheets, hard materials

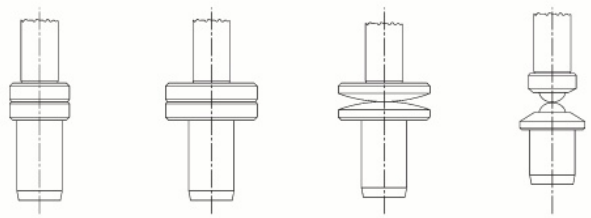
Käfer pocket thickness gauges

- Measuring range: 0 - 20 mm.
- Graduation: 0.1 mm or 0.01 mm.
- Different types of inserts available.
- Standard type of insert: ø 6.35 mm flat insert.


851.783


851.967

Item No.	Measuring range/mm	Graduation mm	Throat depth/mm	Price EUR
851.967	0 - 10	0.1	15	62.00
851.712	0 - 20	0.1	15	72.00
851.783	0 - 8	0.01	12	128.00
852.744	0 - 10	0.01	18	125.00



Standard contact point 6.35 mm Ø flat | Optional contact point 10 mm Ø flat | Optional contact point convex | Optional contact point spherical

C04.329.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Käfer foil thickness gauges

- Measuring range: 0 - 3 mm.
- Resolution: 0.001 mm.
- Standard type of insert: ø 6.35 mm flat.
- Different types of inserts available.

Available types of inserts:
– ø 6.35 mm flat.
– ø 10 mm flat.
– Upper insert convex r 15 or r 40, lower insert ø 6.35 mm flat.
– Lower insert convex r 15.
– Spherical.



Item No.	Measuring range/mm	Type of insert	1 pointer revolution	Throat depth/mm	Price EUR
851.760	1	6.35 mm	0.2 mm	30	271.00
852.368	1	6.35 mm	0.1 mm	30	296.00
851.711	0.1	6.35 mm	0.1 mm	30	322.00
852.263	3	6.35 mm	–	30	687.00
Option:					
495.157	Spare battery				0.40

Käfer thickness gauges with roller measuring inserts

- Measuring range: 0 - 10 mm.
- Resolution: 0.01 mm.
- Measuring face roller measuring inserts: 8.7 mm / ø 8.4 mm.
- Throat depth: 50 mm.



Item No.	Description	Measuring range/mm	Graduation mm	Price EUR
852.377	Thickness gauge	5	0.01	277.00
852.058	Digital thickness gauge	10	0.01	677.00
Option:				
495.157	Spare battery			0.40

Käfer digital thickness gauges

- Measuring range: 0 - 25 mm.
- Resolution: 0.01 mm or 0.001 mm.
- Interchangeable measuring inserts.
- Different types of inserts available (a, b, c, d, e).
- Standard type of insert: C, ø 10 mm.
- Delivery in a plastic carrying case.
- Power supply: 1 battery type CR2032.



Item No.	Measuring range/mm	Resolution mm	Throat depth/mm	Price EUR
852.768	0 - 12.5	0.01	50	523.00
852.715	0 - 25	0.01	50	606.00
852.754	0 - 25	0.01	100	647.00
852.396	0 - 12.5	0.001	50	583.00
852.741	0 - 25	0.001	200	778.00
Options:				
495.157	Spare battery			0.40
852.117	RS232C cable 9p (2 m)			145.00
852.118	USB cable (2 m)			145.00
852.716*	Stand for thickness gauges			79.00

*For thickness gauges with a throat depth of 100 mm or less.

C04.330.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Peacock external measuring instruments

- Measuring range: 0 - 10 mm.
- Graduation: 0.01 mm.
- Accuracy: ±0.02 mm.
- Measuring force: approx. 1.8 N.
- Non-interchangeable measuring inserts.
- Ceramic measuring faces (except 855.761: steel).


855.750

NEW


855.761


855.751

Item No.	Measuring range/mm	Measuring faces ø/mm	Throat depth/mm	Price EUR
855.750	0 - 10	10	20	64.00
855.761	0 - 10	10	20	81.00
855.751	0 - 10	10	120	76.00

External measuring instruments

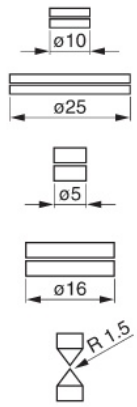
- Measuring range: 0 - 10 mm.
- Graduation: 0.01 mm.
- Different types of inserts available, with hardened steel measuring faces.
- Throat depth: 50 mm.


853.002


853.007

Item No.	Type of insert	Price EUR
853.002	B	222.00
853.003	C	222.00
853.004	D	222.00
853.005	E	222.00
853.007	G	222.00

Types of inserts



B Wood, rubber, soft leather

C Soft rubber

D Rubber rings, round material

E Paper, cardboard, fibrous plates

G Metal

Thickness gauge for film measurement

- Measuring range: 0 - 1 mm.
- Graduation: 0.001 mm.
- Measuring force: approx. 3 N.
- Non-interchangeable measuring inserts.
- Throat depth: 25 mm.
- Frame with insulating grip.
- Ceramic measuring faces.
- Delivery in a plastic case with a manufacturer measuring report.

Item No.	Measuring range/mm	Meas. faces ø/mm	Price EUR
907.859	0 - 1	10	113.00





C04.247.EN.20230516

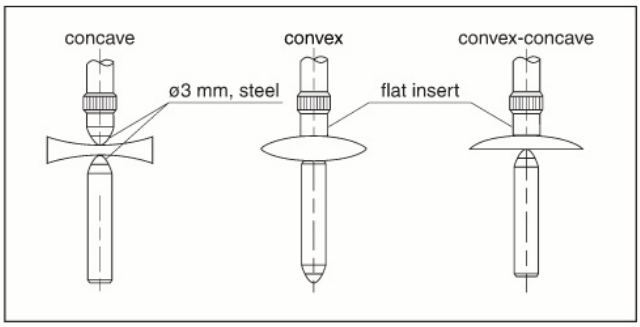
© 2023, Schut Geometrische Meettechniek bv

Peacock universal thickness gauge

Measuring instrument with dial indicator and adjustable anvil, multi-purpose.

- Span frame: 0 - 20 mm.
- Measuring range dial indicator: 10 mm.
- Graduation: 0.01 mm.
- Accuracy: ±0.02 mm.
- Throat depth: 25 mm.
- With additional flat insert.





Item No.	Measuring range dial indicator/mm	Price EUR
855.752	0 - 10	84.00

Tube wall thickness gauge

- Measuring range: 0 - 10 mm.
- Graduation: 0.01 mm.
- Measuring force: approx. 1 N.
- Throat depth: 25 mm.
- From inner diameter 8 mm.



Item No.	Measuring range/mm	Price EUR
853.137	0 - 10	144.00

C04.248.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Thickness gauges

- Measuring range: 0 - 50 mm.
- Graduation: 0.1 mm.
- Different types of inserts.
- Hardened steel measuring faces.
- Other models available on request.







853.064

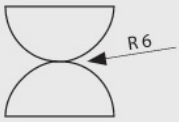


853.022

Schut

Types of inserts

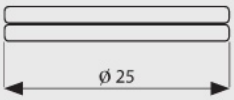
A
① General applications



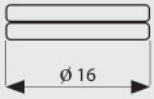
B
② Wood, rubber, soft leather



C
③ Soft rubber



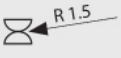
E
④ Paper, cardboard, fibrous plates



F
⑤ Rubber rings, round materials



G
⑥ Metal



Item No.	Measuring range/mm	Type of insert	Throat depth/mm	Price EUR
853.022	0 - 10	②	15	59.00
853.031	0 - 30	⑤	50	71.00
853.032	0 - 30	②	50	71.00
853.033	0 - 30	③	50	71.00
853.034	0 - 30	④	50	71.00
853.035	0 - 30	⑥	50	71.00
853.037	0 - 30	①	50	84.00
853.041	0 - 50	⑤	50	77.00
853.042	0 - 50	②	50	77.00
853.043	0 - 50	③	50	77.00
853.044	0 - 50	④	50	77.00
853.045	0 - 50	⑥	50	77.00
853.047	0 - 50	①	50	90.00
853.052	0 - 25	②	150	141.00
853.053	0 - 25	③	150	141.00
853.054	0 - 25	①	150	154.00
853.055	0 - 25	④	150	141.00
853.056	0 - 25	⑥	150	141.00
853.062	0 - 25	②	300	184.00
853.063	0 - 25	③	300	184.00
853.064	0 - 25	①	300	197.00
853.065	0 - 25	④	300	184.00
853.066	0 - 25	⑥	300	184.00
853.082	0 - 25	②	500	247.00
853.083	0 - 25	③	500	247.00
853.084	0 - 25	①	500	260.00
853.085	0 - 25	④	500	247.00
853.087	0 - 25	⑥	500	247.00

C04.249.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital external measuring instruments

- Measuring range: 0 - 25 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Different types of inserts.
- Hardened steel measuring faces.
- Other models available on request.



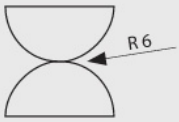
853.074



853.060

Types of inserts

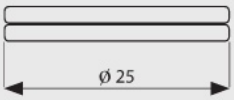
A
① General applications



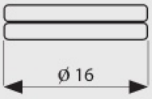
B
② Wood, rubber, soft leather



C
③ Soft rubber



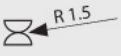
E
④ Paper, cardboard, fibrous plates



F
⑤ Rubber rings, round materials



G
⑥ Metal



Item No.	Measuring range/mm	Type of insert	Throat depth/mm	Price EUR
853.072	0 - 25	①	50	305.00
853.073	0 - 25	②	50	292.00
853.074	0 - 25	③	50	292.00
853.075	0 - 25	④	50	292.00
853.076	0 - 25	⑤	50	292.00
853.077	0 - 25	⑥	50	292.00
853.057	0 - 25	①	200	377.00
853.078	0 - 25	②	200	364.00
853.079	0 - 25	③	200	364.00
853.080	0 - 25	④	200	364.00
853.081	0 - 25	⑥	200	364.00
853.060	0 - 25	①	300	408.00
853.091	0 - 25	②	300	395.00
853.092	0 - 25	③	300	395.00
853.093	0 - 25	④	300	395.00
853.094	0 - 25	⑥	300	395.00

C04.316.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Universal measuring instruments

Robust universal measuring instruments for measuring by comparison, consisting of a steel precision cylinder with one fixed (adjustable) and one mobile measuring arm holder. The measuring direction is reversible by a simple turn of the adjusting screw at the end of the instruments. This feature enables measurements of internal and external dimensions. Clamping shaft 8H7 for dial indicator or measuring probe (measuring range 0 - 10 mm) not included. The nominal size is set with gauge blocks, setting rings or something similar.

Base instrument, with a wooden case

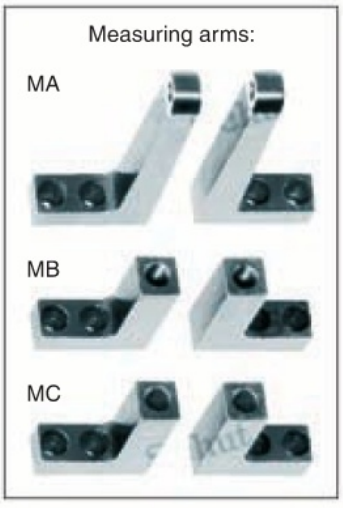
Item No.	Type	Measuring range (internal/external) in mm, with: Spherical disc inserts	Spherical needle insert ø2 x 5 mm	Ball insert ø3 mm	Measuring disc ø15 x 4 mm	Price EUR
856.340	2-MR	29 - 254/9 - 234	38 - 263/0 - 225	36 - 261/2 - 227	46 - 256/16 - 226	2,790.00
856.341	2L-MR	29 - 354/9 - 334	38 - 363/0 - 325	36 - 361/2 - 327	46 - 356/16 - 326	2,970.00
856.342	2EL-MR	29 - 454/9 - 434	38 - 463/0 - 425	36 - 461/2 - 427	46 - 456/16 - 426	3,230.00



Base instrument type MR

Measuring arms

Item No.	Length mm	Price EUR **per piece**
Type MA, with ø3.5 mm bore for interchangeable inserts:		
856.343	25	176.00
856.344	50	176.00
856.345	75	221.00
856.346	100	221.00
Type MB, with internal thread M6 for interchangeable measuring disc:		
856.347	30	176.00
856.348	50	221.00
Type MC, with bore 4H7 for various interchangeable inserts:		
856.349	30	176.00
856.350	50	221.00



Internal measuring instruments (type I) and external measuring instruments (type O) with non-exchangeable measuring jaws are available on request. Excl. dial indicator or measuring probe.

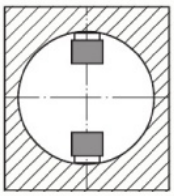


C04.230.EN.20230516

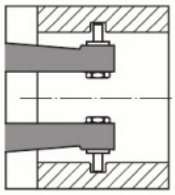
Universal measuring instruments (continued)

Interchangeable inserts for type MA

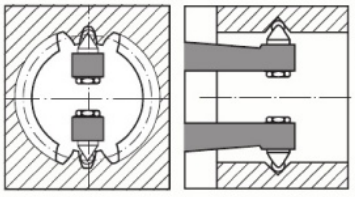
Item No.	Description	Price EUR per piece
856.351	Spherical disc insert	116.00
856.372	Flat disc insert	174.00
856.352	Spherical needle ø 2 x 5 mm	149.00
856.376	Ditto, ø 2 x 25 mm	204.00
856.353	Ball insert ø 3 mm	192.00



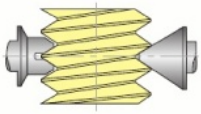
856.351: measuring of bores



856.352: measuring of narrow grooves



856.353: measuring of internal gear teeth, V-grooves, etc.



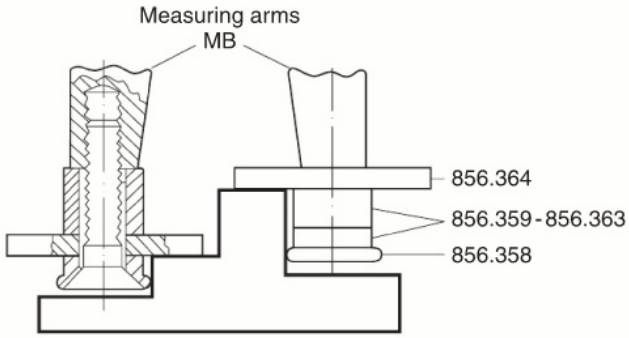
Available on request: inserts for thread pitch diameters (metric: pitch 0.5 - 7.0; BSW: 14 - 3.0 t.p.i.; UN: 32 - 3.0 t.p.i.). The measuring anvils rotate to follow the helix of the thread.



Example of a complete instrument with measuring arms type MB, measuring discs and a dial indicator.

Interchangeable measuring disc for type MB

A measuring disc, which can be fitted by means of spacers and a support washer, is available for measuring arms MB with internal thread M6. For measuring of shoulders at different levels, locating flanges, etc.



Item No.	Description	Price EUR per piece
856.358	Measuring disc ø 15 x 4 mm	112.00
856.359	Spacer 1 mm	36.80
856.360	Spacer 2 mm	36.80
856.361	Spacer 3 mm	36.80
856.362	Spacer 6 mm	36.80
856.363	Spacer 10 mm	36.80
856.364	Support washer ø 30 x 3 mm	50.00



Extensions and connecting elements

Item No.	Description	Price EUR
856.354	Extension 300 mm	357.00
856.355	Extension 500 mm	583.00
856.356	Connecting element for measuring element and extension	332.00
856.357	End cover for extension	54.00

Before placing the extension the measuring direction has to be determined with the adjusting screw.

C04.231.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

HELIOS-PREISSER universal gauge

Universal measuring instrument consisting of a steel tube with two mobile measuring arms. The measuring direction is reversible, which enables measurements of internal and external dimensions.

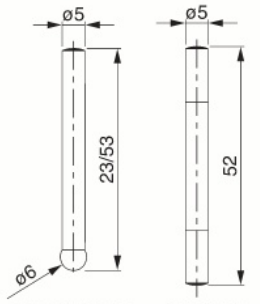
- Measuring range: external measurements: 5 - 220 mm, internal measurements: 15 - 230 mm.
- Measuring range with optional extensions: up to 2000 mm.
- Clamping shaft: ø 8 mm.
- Reversible measuring direction.
- Large choice of measuring probes and inserts.
- Inserts also for internal and external screw thread measurements available.
- Base instrument: excl. dial indicator, measuring probes and inserts.
- Delivery in a wooden case.

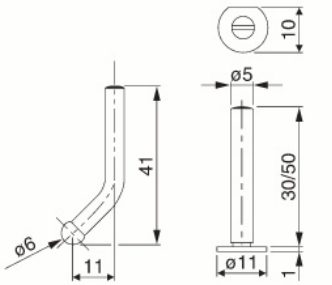
Item No.	Description	Price EUR
856.721	Base instrument	2,099.00
Options:		
856.732	Measuring probe mounting blocks (pair) for external dimensions	289.00
856.735	Measuring probe mounting blocks (pair) for internal dimensions	289.00
856.723	Extension 100 mm	292.00
856.722	Extension 200 mm	310.00
856.724	Extension 500 mm	474.00
856.319	Ball inserts (pair) l=23 mm	130.00
856.387	Ball inserts (pair) l=53 mm	130.00
856.388	Cylindrical inserts (pair)	130.00
856.389	Offset inserts (pair)	216.00
856.725	Shoulder insert (pair) for external dimensions	351.00
856.733	Shoulder insert (pair) for internal dimensions	351.00
856.736	Measuring insert discs (pair) 0 - 20 mm l=30 mm	111.50
856.734	Measuring insert discs (pair) 20 - 40 mm l=50 mm	111.50
856.726	Measuring arms (pair) l=35 mm	326.00
856.727	Measuring arms (pair) l=70 mm	348.00
856.731	Depth stop attachments for measuring arms (pair)	297.00
856.728	Adapters 5 mm for inserts M2.5 (pair)	34.25
856.737	Measuring inserts flat (pair)	70.00
856.738	Measuring inserts spherical (pair)	70.00
856.713[1]	Adapters new to old (pair)	89.00
856.717[2]	Adapters old to new (pair)	89.00

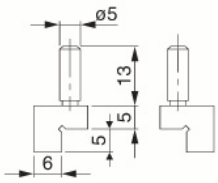
[1] For new model accessories on an old 856.380.
[2] For old model accessories on a new 856.721.

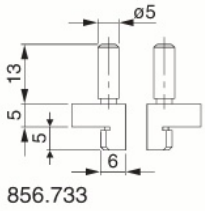


Illustrated: base instrument, measuring arms, ball inserts, extension and dial indicator.

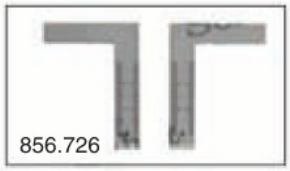


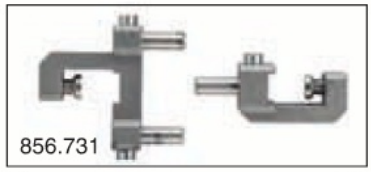


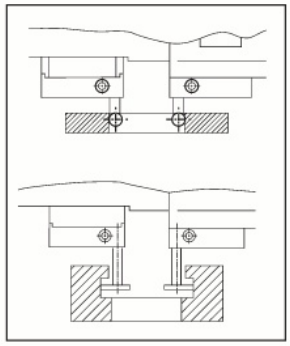


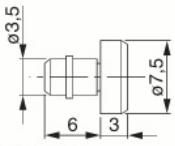


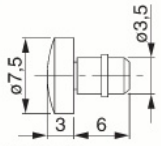






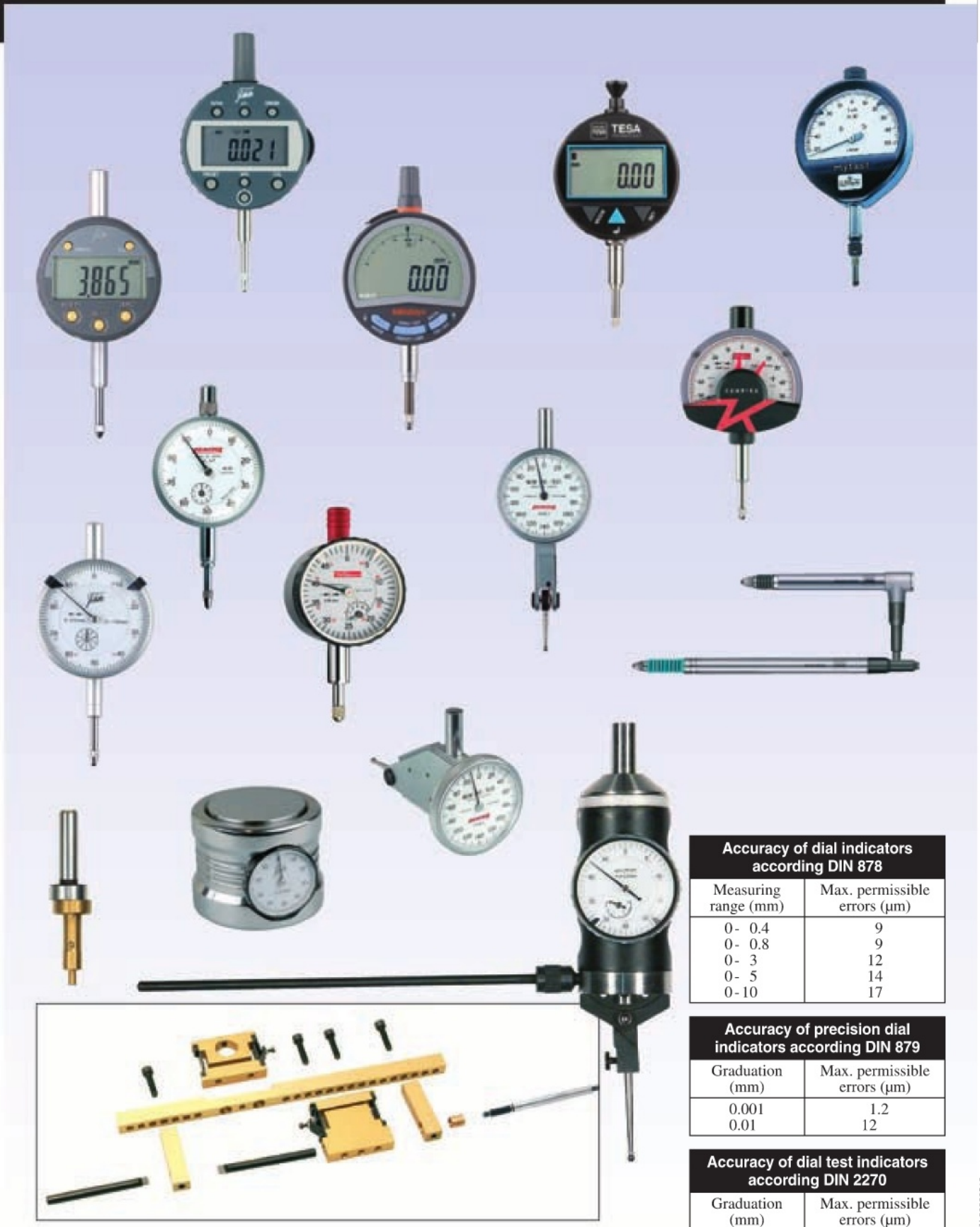






C04.339.EN.20230516

Dial indicators / Dial test indicators / Center instruments Edge finders / Probes / MF measuring fixture system



Accuracy of dial indicators according DIN 878	
Measuring range (mm)	Max. permissible errors (µm)
0 - 0.4	9
0 - 0.8	9
0 - 3	12
0 - 5	14
0 - 10	17

Accuracy of precision dial indicators according DIN 879	
Graduation (mm)	Max. permissible errors (µm)
0.001	1.2
0.01	12

Accuracy of dial test indicators according DIN 2270	
Graduation (mm)	Max. permissible errors (µm)
0.002	4
0.01	13

C05.001.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital dial indicators

Digital dial indicators for a favourable price.

- Measuring range: 0 - 50 mm.
- Resolution: 0.01 or 0.001 mm.
- mm/inch conversion.
- ABS/INC switchable.
- With data output.
- On/off switch.
- Reset.
- Clamping stem: ø 8 mm.
- Dial diameter: 57 mm.
- Adjustable tolerance limits.
- Flat back and additional back with lug.
- Delivery in a plastic case with a manufacturer measuring report.
- Power supply: 1 battery type CR2025.



907.652



907.646

Item No.	Measuring range/mm	Accuracy mm	Price EUR
With resolution 0.01 mm:			
907.634	0 - 12.5	±0.02	63.00
907.649	0 - 25	±0.03	89.00
907.652	0 - 50	±0.04	167.00
With resolution 0.001 mm:			
907.646	0 - 12.5	±0.015	77.00
Options:			
495.214	Spare battery		0.40
909.446	USB interface		143.00
909.687	Footswitch for USB interface		18.50



909.446

USB interface:
- For data transfer to PC (e.g. Excel, Word).
- Operating system: Windows and other.
- PC connection: USB.
- No software or driver to install.
- Foot switch (optional).

C05.307.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Absolute digital dial indicators

Absolute digital dial indicators with a function to set tolerance limits with clear optical Go (NoGo) reading.

- Measuring range: 0 - 50 mm.
- Resolution: 0.01 mm or 0.001 mm.
- mm/inch conversion.
- ABS/INC switchable.
- With data output.
- Adjustable tolerance limits.
- **Tolerance display** by means of illuminated green LED at GO value.
- On/off switch.
- Reset/preset.
- Ceramic stylus tip.
- Max. measuring speed: unlimited.
- Clamping stem: ø 8 mm.
- Dial diameter: 60 mm.
- Reversible measuring direction.
- Flat back and additional back with lug.
- Protection: IP54.
- Delivery with a manufacturer measuring report.
- Power supply: 1 battery type CR2032.



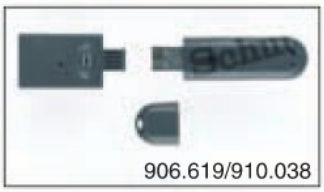
906.870

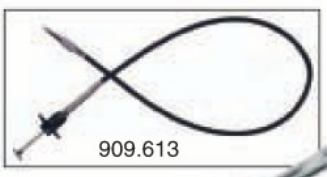

906.618

USB interface:
- For data transfer to PC (e.g. Excel, Word).
- Operating system: Windows and other.
- PC connection: USB.
- No software or driver to install.
- Foot switch (optional).


909.687


909.611


906.619/910.038


909.613


909.614

Item No.	Measuring range/mm	Resolution mm	Accuracy mm	Price EUR
910.221	0 - 12.7	0.001	±0.004	144.00
910.222	0 - 25.4	0.001	±0.004	170.00
910.223	0 - 50.8	0.001	±0.005	247.00
906.870	0 - 12.7	0.01	±0.01	86.00
906.871	0 - 25.4	0.01	±0.01	106.00
906.872	0 - 50.8	0.01	±0.015	144.00

Options:

495.157	Spare battery	0.40
906.618 [1,2]	USB interface	77.00
909.687	Footswitch for USB interface	18.50
910.038	Wireless USB receiver	50.00
906.619 [2]	Wireless transmitter	52.00
909.611	Retraction lever	1.10
909.613	Cable retraction device (0.4 m) (maximum travel 10 mm)	14.50
909.614	Retraction lever (maximum travel 12.7 mm)	6.40

[1] Standard configured for PC with English (US) keyboard. Also available on request for alternative keyboards.
[2] With micro-USB connection.

C05.330.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Absolute digital dial indicators

- Measuring range: 0 - 50.8 mm.
- Resolution: 0.01 mm or 0.001 mm.
- mm/inch conversion.
- ABS/INC switchable.
- LCD display 330° rotatable.
- Digimatic data output.
- On/off switch.
- Reset/preset.
- Ceramic stylus tip.
- Max. measuring speed: unlimited.
- Measuring force: ≤2 N.
- Clamping stem: ø8 mm.
- Dial diameter: 60 mm.
- Reversible measuring direction.
- With determination of the reversal point (only 910.004).
- Adjustable tolerance limits (except 910.004).
- Flat back.
- With additional back with lug (only 909.998, 910.001/004).
- Protection: IP54.
- Delivery with a manufacturer measuring report.
- Power supply: 1 battery type CR2032.



909.998



910.004

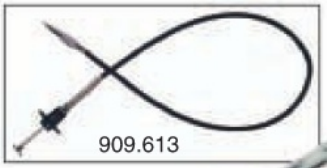
USB interface:
- For data transfer to PC (e.g. Excel, Word).
- Operating system: Windows and other.
- PC connection: USB.
- No software or driver to install.
- Foot switch (optional).


909.686


909.687


909.611


910.039/038


909.613


909.614

Item No.	Measuring range/mm	Resolution mm	Accuracy mm	Price EUR
909.998	0 - 12.7	0.001	±0.004	149.00
909.999	0 - 25.4	0.001	±0.005	196.00
910.000	0 - 50.8	0.001	±0.006	271.00
910.001	0 - 12.7	0.01	±0.01	84.00
910.002	0 - 25.4	0.01	±0.01	107.00
910.003	0 - 50.8	0.01	±0.015	149.00
For internal measurements:				
910.004	0 - 12.7	0.001	±0.004	163.00
With Bluetooth:				
910.079	0 - 12.7	0.001	±0.004	160.00
910.082	0 - 12.7	0.01	±0.01	100.00

Options:		
495.157	Spare battery	0.40
909.686[1,2]	USB interface	109.00
909.687	Footswitch for USB interface	18.50
910.038	Wireless USB receiver	50.00
910.039[2]	Wireless transmitter	50.00
909.611	Retraction lever	1.10
909.613	Cable retraction device (0.4 m) (maximum travel 10 mm)	14.50
909.614	Retraction lever (maximum travel 12.7 mm)	6.40

[1] Standard configured for PC with English (US) keyboard. Also available on request for alternative keyboards.
[2] For instruments with a Digimatic data output.

C05.326.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital dial indicators with high resolution

Digital dial indicators with digital and digital-analog read-out and a high resolution of 0.0005 mm.

- Measuring range: 0 - 50.8 mm.
- Resolution: 0.0005.
- mm/inch conversion.
- ABS/INC switchable.
- On/off switch.
- With data output.
- USB-C data output: for data transfer to PC (e.g. Excel, Word), operating system Windows and other.
- Mutifunctional functions: automatic switch-off, adjustable tolerance limits, reversible measuring direction, hold-function, min/max-function.
- Reset/preset.
- Clamping stem: ø 8 mm.
- Dial diameter: 62 mm.
- Dial 270° rotatable.
- With determination of the reversal point.
- Protection: IP54.
- Delivery with USB-C and a manufacturer measuring report; excluding USB charger.
- Power supply: rechargeable battery.

NEW

PRICE



910.340

Item No.	Measuring range/mm	Resolution mm	Accuracy mm	Measuring force/N	Price EUR
910.340	0 - 15	0.0005	±0.002	1.5	310.00
911.184	0 - 25.4	0.0005	±0.002	1.5	302.00
911.185	0 - 50.8	0.0005	±0.004	1.5	341.00
Option:					
910.457* Bluetooth transmitter					75.00

* With USB-C connection.

Digital dial indicators

Digital dial indicators with digital and digital-analog read-out.

- Measuring range: 0 - 12.5 mm.
- Resolution: 0.002 or 0.0005 mm.
- mm/inch conversion.
- ABS/INC switchable.
- On/off switch.
- Mutifunctional functions: automatic switch-off, adjustable tolerance limits, reversible measuring direction.
- Reset/preset.
- Clamping stem: ø 8 mm.
- Dial diameter: 62 mm.
- Dial 315° rotatable.
- With determination of the reversal point.
- Delivery in a plastic case.
- Power supply: 1 battery type CR2032.

PRICE



909.251

Item No.	Measuring range/mm	Resolution mm	Accuracy mm	Measuring force/N	Price EUR
909.250	0 - 12.5	0.002	±0.015	1.2	112.00
909.251	0 - 12.5	0.0005	±0.006	1.2	210.00
Option:					
495.157 Spare battery					0.40

C05.342.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital dial indicators

Universal digital indicators with both digital and digital-analog display of the measuring value, and can also be rotated over 340° to ensure easy read-out in all positions.

- Measuring range: 0 - 12.7 mm.
- Resolution: 0.001 mm.
- Analog resolution: 0.001 / 0.002 / 0.01 / 0.02 / 0.05 mm.
- mm/inch conversion.
- ABS/INC switchable.
- On/off switch.
- Automatic switch-off.
- Reset/preset.
- Clamping stem: ø 8 mm.
- Dial diameter: 61 mm.
- Dial 340° rotatable.
- Reversible measuring direction.
- Adjustable tolerance limits.
- Protection: IP54.
- Delivery in a plastic case.
- Power supply: 1 battery type CR2032.



907.879

PRICE

Item No.	Measuring range/mm	Accuracy mm	Price EUR
907.879	0 - 12.7	±0.01	114.00
907.878	0 - 12.7	±0.005	169.00
Option:			
495.157	Spare battery		0.40

Digital indicators

- Measuring range: 0 - 100 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Clamping shaft: ø 6 mm.
- Clamping stem: ø 8 mm.
- Insert thread: M2.5.
- Power supply: 1 battery type V357.



910.312

PRICE

Item No.	Measuring range/mm	Measuring force/N	Total length/mm	Price EUR
910.311	0 - 50	<2.5	148	149.00
910.312	0 - 100	<3.2	330	158.00
Option:				
836.535	Spare battery			0.80


910.312

C05.343.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Absolute horizontal digital dial indicators

- Measuring range: 0 - 30 mm.
- Resolution: 0.001 mm.
- mm/inch conversion.
- Digimatic data output.
- On/off switch.
- Reset/preset.
- Ceramic stylus tip.
- With dovetail joint (incl. lug) and clamping stem ø 8 mm.
- Measuring force: ≤ 2 N.
- Reversible measuring direction.
- Protection: IP54.
- Delivery with a manufacturer measuring report.
- Power supply:
  910.085: 1 battery type CR1632,
  910.086: 1 battery type CR2032.

USB interface and wireless USB receiver and transmitter available on request.



910.085

PRICE

Item No.	Measuring range/mm	Resolution mm	Accuracy mm	Price EUR
910.085	0 - 12.7	0.001	±0.005	93.00
910.086	0 - 30	0.001	±0.006	114.00
Options:				
497.955	Spare battery type CR1632			1.80
495.157	Spare battery type CR2032			0.40

Digital dial indicator with calculation function

Robust digital dial indicator with built-in calculation function for easy determination of diameters by means of measuring a curved surface. Suitable for measuring both inside and outside diameters and multifunctional dial indicator applications. Delivery with measuring bases of 10, 20, 30, 60 and 100 mm.

- Measuring range: 0 - 13 mm.
- Resolution: 0.005 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Hold function.
- Clamping stem: ø 8 mm.
- Aluminum construction.
- Delivery in a plastic case.
- Power supply: 1 battery type CR2032.

PRICE

Item No.	Measuring range/mm	Accuracy mm	Price EUR
907.884	0 - 13	±0.005*	304.00
Option:			
495.157	Spare battery		0.40

* Accuracy of the indicator without the use of measuring bases. The accuracy with measuring bases depends on the radius and form deviation of the workpiece.



C05.329.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo Absolute Digimatic dial indicators ID-S / ID-S Solar

Standard digital dial indicators with the absolute measuring system and a very good price-performance ratio.

- Measuring range: 0 - 12.7 mm.
- Resolution: 0.01 or 0.001 mm.
- Digimatic data output.
- Max. measuring speed: unlimited.
- Measuring force:
  543.781/790: ≤2.0 N,
  543.500/505: ≤1.5 N.
- Clamping stem: ø8 mm.
- Tungsten carbide stylus tip.
- Reversible measuring direction.
- Protection: IP42.
- Conforms to factory standard.
- Delivery with a manufacturer measuring report.
- Power supply: 1 battery type V357 (543.781/790).



Item No.	Measuring range/mm	Resolution mm	Accuracy mm	Price EUR
543.781	0 - 12.7	0.01	±0.02	177.00
543.790	0 - 12.7	0.001	±0.003	347.00
ID-S Solar:				
543.505	0 - 12.7	0.01	±0.02	180.00
543.500	0 - 12.7	0.001	±0.003	367.00
Option:				
836.535	Spare battery			0.80

Data cables Digimatic, USB Input Tool Direct, U-WAVE available on request.

Mitutoyo Absolute Digimatic dial indicator ID-U

Dial indicator from Mitutoyo that combines the absolute system with a measuring range of 25.4 mm.

- Measuring range: 0 - 25.4 mm.
- Resolution: 0.01 mm.
- Digimatic data output.
- On/off switch.
- Reset.
- Max. measuring speed: unlimited.
- Measuring force: ≤1.8 N.
- Clamping stem: ø8 mm.
- Tungsten carbide stylus tip.
- Reversible measuring direction.
- Dimensions:
  207.3 x 38 x 23 mm.
- Protection: IP42.
- Conforms to factory standard.
- Power supply: 1 battery type V357.



Item No.	Measuring range/mm	Accuracy mm	Price EUR
575.121	0 - 25.4	±0.02	247.00
Options:			
836.535	Spare battery		0.80
540.774	Lift lever (12 mm)		29.90

Data cables Digimatic, USB Input Tool Direct, U-WAVE available on request.

C05.213.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo Absolute Digimatic dial indicators ID-C

Digital dial indicators with the absolute measuring system and a large display for easy reading of the measuring values and the tolerance judgement. The tolerance values are shown graphically above the current measurement on the display. The 330° rotatable display guarantees an ideal read-out in any position.

- Measuring range: 0 - 50.8 mm.
- Resolution: 0.01 or 0.0005/0.001/0.01 mm.
- Repeatability: 0.01 mm.
- ABS/INC switchable.
- Bidirectional data output.
- LCD display 330° rotatable.
- Digimatic S1 data output.
- On/off switch.
- Reset/preset.
- Hold function.
- Min/max/P-P function.
- Max. measuring speed: unlimited.
- Clamping stem: ø8 mm.
- Tungsten carbide stylus tip.
- Reversible measuring direction.
- Adjustable tolerance limits.
- Protection: IP42.
- Conforms to factory standard.
- Calibration date warning.
- Delivery with a manufacturer measuring report.
- Power supply: 1 battery type CR2032.


543.725


543.715


543.705

NEW

Item No.	Measuring range/mm	Resolution mm	Accuracy mm	Measuring force/N	Price EUR
543.710	0 - 12.7	0.01	±0.02	≤0.9	323.00
543.725	0 - 25.4	0.01	±0.02	≤1.8	437.00
543.735	0 - 50.8	0.01	±0.04	≤2.3	682.00
543.700	0 - 12.7	0.0005/0.001/0.01	±0.003	≤1.5	433.00
543.720	0 - 25.4	0.0005/0.001/0.01	±0.003	≤1.8	551.00
543.730	0 - 50.8	0.0005/0.001/0.01	±0.005	≤2.3	824.00
With a reduced measuring force:					
543.715	0 - 12.7	0.01	±0.02	≤0.2 - 0.5	383.00
543.705	0 - 12.7	0.0005/0.001/0.01	±0.003	≤0.4 - 0.7	529.00

Options:		
495.214	Spare battery	0.40
106.011	Digimatic S1 signal cable without data switch, 1 m	77.00
106.021	Digimatic S1 signal cable without data switch, 2 m	82.00
106.001	USB Input Tool Direct cable S1, 2 m	160.00
102.011	U-WAVE data cable	128.00
106.543	USB-ITPAK V3.0	333.00

C05.345.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo Absolute Digimatic dial indicators ID-C (continued)

Multifunctional dial indicators with special functions for various applications. Which includes a version with min/max/P-P function, a version especially made for internal measurements, and a version with built-in calculation function. The results, for example, inside and outside diameter, groove width, bore diameter, and curve radius, are determined based on the spindle displacement x; formula: $Ax+B+Cx^{-1}$. The coefficients A, B and C can be set and the calculations are processed and displayed in real-time.

- Measuring range: 0 - 50.8 mm.
- Resolution: 0.0002 to 1 mm, switchable.
- ABS/INC switchable (except 543.310).
- LCD 330° rotatable.
- Digimatic data output.
- On/off switch.
- Reset/preset.
- Hold function.
- Max. measuring speed: unlimited.
- Clamping stem: ø 8 mm.
- Adjustable tolerance limits.
- Protection: IP42.
- Delivery with a manufacturer measuring report.
- Power supply: 1 battery type CR2032.

Model with min/max/P-P function (543.300)

- Key lock function.

Model for internal measurements (543.310)

- Spindle movement is displayed graphically (determination of the reversal point).

- Storage for 3 preset values (for example size setting ring).

Bridges for dial indicators with calculation function.

Especially made for dial indicators with calculation function. Combined with these dial indicators, these bridges can provide a multitude of solutions. For these bridges, see bridges elsewhere in the catalog.

Item No.	Measuring range/mm	Accuracy mm	Measuring force/N	Price EUR
With min/max/P-P function:				
543.300	0 - 12.7	±0.003	≤1.5	497.00
For internal measurements:				
543.310	0 - 12.7	±0.003	≤1.5	551.00
With calculation function:				
543.340	0 - 12.7	±0.003	≤1.5	637.00
543.590	0 - 25.4	±0.003	≤1.8	693.00
543.595	0 - 50.8	±0.006	≤2.3	869.00
Options:				
495.214	Spare battery			0.40
905.338	Digimatic signal cable, 1 m			36.00
905.409	Digimatic signal cable, 2 m			43.00
106.384	USB Input Tool Direct cable, 2 m			121.00
102.795	U-WAVE data cable			96.00
210.198	Retraction lever			14.00
211.301	Cable retraction device			34.30
101.040	Back plate with lug			14.00



543.300



543.340


543.310

C05.346.EN.20230516

Mitutoyo Absolute Digimatic dial indicators ID-B and ID-N

Compact digital dial indicators with the Absolute measuring system and with protection degree IP66. Flexible mounting because the display can also display upside-down.

- Measuring range: 0 - 12.7 mm.
- Resolution: 0.01 or 0.001 mm.
- ABS/INC switchable.
- Digimatic data output.
- On/off switch.
- Reset/preset.
- Hold function.
- Max. measuring speed: unlimited.
- Measuring force: ≤2 N (0 - 5 mm), ≤2.5 N (0 - 12.7 mm).
- Clamping stem: ø8 mm.
- Tungsten carbide stylus tip.
- Reversible measuring direction.
- Adjustable tolerance limits.
- Protection: IP66.
- Conforms to factory standard.
- Power supply: 1 battery type V357.



Top view 543.580



543.580
(543.585)



543.575
(543.570)

Data cables Digimatic, USB Input Tool Direct, U-WAVE available on request.

Item No.	Measuring range/mm	Resolution mm	Accuracy mm	Price EUR
543.580	0 - 5	0.01	±0.02	305.00
543.585	0 - 5	0.001 / 0.01	±0.003 / ±0.01	407.00
543.570	0 - 12.7	0.01	±0.02	272.00
543.575	0 - 12.7	0.001 / 0.01	±0.003 / ±0.01	378.00
Option:				
836.535	Spare battery			0.80

C05.318.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

TESA Dialtronic Easy and Dialtronic digital dial indicators

Digital dial indicators with a measuring range up to 150 mm. The Dialtronic indicators have a tolerance judgement by means of a red/green coloring LED. Data output possible by means of the free TESA Data-Viewer software.

- Measuring range: 0 - 150 mm.
- Resolution: 0.01 or 0.001 mm.
- Repeatability: 0.002 mm.
- mm/inch conversion.
- Bidirectional data transfer.
- On/off switch.
- Reset/preset.
- Hold function.
- Reversible measuring direction.
- Measuring force: 0.65 - 0.90 N, except IP67 models: 0.7 - 1.4 N.
- Max. measuring speed: 1.7 m/s.
- Display 270° rotatable.
- Delivery with a manufacturer measuring report.
- Power supply: 1 battery type CR2032.

Only Dialtronic models:

- Tolerance judgement.
- Function for dynamic measurements (min, max, max-min) and memory for maximum and minimum values.
- Programmable button.
- Multiplication factor.
- Key lock function.
- Resolution: 0.01 mm or 0.001 mm, switchable.



783.677

NEW

Schut



783.680



SWISS MADE

Item No.	Measuring range/mm	Accuracy mm	Resolution mm	Protection	Dial ø/mm	Price EUR
TESA Dialtronic Easy:						
783.677	0 - 12.5	±0.01	0.01	IP51	59.8	507.00
783.678	0 - 12.5	±0.004	0.001	IP51	59.8	594.00
TESA Dialtronic:						
783.679	0 - 12.5	±0.01	0.01	IP54	59.8	609.00
783.680	0 - 12.5	±0.003	0.001	IP54	59.8	765.00
783.681	0 - 12.5	±0.003	0.001	IP67	59.8	872.00
783.682	0 - 25	±0.01	0.01	IP54	59.8	691.00
783.683	0 - 25	±0.004	0.001	IP54	59.8	835.00
783.684	0 - 25	±0.004	0.001	IP67	59.8	966.00
783.685	0 - 50	±0.005	0.001	IP54	58	1,394.00
783.686	0 - 100	±0.006	0.001	IP54	58	1,761.00
783.687	0 - 150	±0.01	0.001	IP54	58	1,901.00

Options:		
495.157	Spare battery	0.40
783.688	Back with lug	89.00
783.689	Retraction lever for Dialtronic, measuring range up to 12.5 mm	92.00
783.690	Retraction lever for Dialtronic, measuring range up to 25 mm	99.00
783.691	Inductive USB cable for Dialtronic, 3 m	188.00
783.673	Power USB cable for Dialtronic, 3 m	332.00
783.674	90 deg. power USB cable for Dialtronic, 3 m	290.00


783.689


783.690


783.691

C05.344.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

TESA Digico digital dial indicators

Digital dial indicators with digital and digital-analog read-out. Authentic Swiss made product.

- Measuring range: 0 - 25 mm.
- Resolution: 0.01 or 0.001 mm.
- mm/inch conversion.
- USB/RS232C data output.
- Automatic switch-off.
- Absolute mode (spindle position is also read after automatic switch-off).
- Reset.
- Measuring force: ≤2.0 N.
- Dial diameter: 57 mm.
- Reversible measuring direction.
- Adjustable tolerance markers.
- Key lock function.
- Delivery in a plastic case with a manufacturer measuring report.
- Power supply: 1 battery type CR2032.

TESA Digico 600

The 270° rotatable display guarantees an ideal read-out in any position.

- Preset.
- Overall reset.
- ABS/INC switchable.
- Numerical tolerance limits.
- Function for dynamic measurements (min, max, max-min) and memory for maximum and minimum values.



783.085

Item No.	Type	Measuring range/mm	Resolution mm	Accuracy mm	Price EUR
TESA Digico 200:					
783.000	205 MI	0 - 12.5	0.01	±0.02	289.00
TESA Digico 600:					
783.085	605 MI	0 - 12.5	0.001	±0.004	392.00
783.144	610 MI	0 - 25	0.001	±0.005	469.00
Options:					
495.157	Spare battery				0.40
782.201	AC adapter (without power cable)*				73.00
782.202	EU power cable for AC adapter*				9.60
783.027	Opto-USB cable (2 m)				280.00
781.887	Opto-RS232C cable 9p (2 m)				157.00
781.999	Opto-RS232C cable 9p, bidirectional (2 m)				151.00
783.556	TESA Link Connector Adapter Opto-RS232/TLC				174.00
783.555	TESA Link Connector Bluetooth				50.00

* To be used together for external power supply.

SWISS MADE

C05.321.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

TESA Dialtronic Compact digital mini dial indicators

Designed to be used in tight spaces thanks to the small dial diameter of just 45 mm. Protected against dust, spraying water, oil and coolants due to the IP54 and IP67 protection.

- Measuring range: 0 - 12.5 mm.
- Resolution: 0.01 mm or 0.001 mm.
- Accuracy: ±0.004 mm, except 783.670: ±0.01 mm.
- Repeatability: 0.002 mm.
- mm/inch conversion.
- USB data output with external power supply.
- Bidirectional data transfer.
- Automatic switch-off.
- Reset/preset.
- Max. measuring speed: 1.7 m/s.
- Measuring force: 0.5 - 0.9 (±0.20) N except 783.672: 0.6 - 1.3 (±0.20) N.
- Reversible measuring direction.
- Protection: IP54 except 783.672: IP67.
- Delivery with a manufacturer measuring report.
- Power supply: 1 battery type CR2032, external power supply via a USB cable.



783.672

NEW



783.670


783.230 + 783.670

SWISS MADE


783.672 + 781.727


783.673

Item No.	Measuring range/mm	Resolution mm	Price EUR
783.670	0 - 12.5	0.01	429.00
783.671	0 - 12.5	0.001	612.00
783.672	0 - 12.5	0.001	642.00
Options:			
495.157	Spare battery		0.40
783.230	Retraction lever		119.00
781.727	Retraction lever		25.00
783.673	USB cable (3 m)		332.00

C05.340.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

TESA Digico digital mini dial indicators 12/12-HP

Designed to work in the toughest conditions, protected against spraying water, oil and coolants. The diameter of the housing is only 44 mm. Patented, inductive measuring system. The Digico 12-HP dial indicators (*) are high-precision models.

- Measuring range: 0 - 12.5 mm.
- Resolution: 0.01 mm or 0.001 / 0.01 mm.
- Accuracy: ±0.01 mm.
- Repeatability: 0.005 mm.
- mm/inch conversion.
- ABS/INC switchable (except 12-HP).
- RS232C data output with external power supply.
- Automatic switch-off.
- Preset (except 12-HP) and reset.
- Max. measuring speed: 2 m/s.
- Measuring force: 0.5 - 0.9 (±0.15) N.
- Reversible measuring direction (except 12-HP).
- Protection: IP65.
- Delivery with a manufacturer measuring report (except the 0.01 mm models).
- Power supply: 1 battery type CR2032.

TESA Digico 12-HP*

- Accuracy: ±0.002 mm.
- Repeatability: 0.002 mm.
- With digital-analog display of the measured value (±0.025 to ±1.25 mm).
- Lock of automatic switch-off.
- Min/max/P-P function.



782.435



782.437



782.436

Item No.	Measuring range/mm	Resolution mm	Price EUR
Electronic module IP65 protected:			
782.432	0 - 12.5	0.01	264.00
782.436*	0 - 5	0.001 / 0.01	385.00
Mechanics and electronics IP65 protected:			
782.433	0 - 12.5	0.01	305.00
782.435	0 - 12.5	0.001 / 0.01	419.00
782.437*	0 - 5	0.001 / 0.01	417.00
Option:			
495.157	Spare battery		0.40

C05.212.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo Absolute Digimatic dial indicators ID-F/ID-H

Very advanced Mitutoyo Absolute dial indicators for the demanding user. Besides the high accuracy, these indicators are equipped with many practical functions, among which an automatic hold function for the maximum and minumum measuring value, calculation of min-max difference value and tolerance judgements with help of a color changing display (red/green).

To optimise the reproducibility and stability of measurements for the ID-H dial indicators an optional remote control device is available with which the indicator can be set up without actually physically making contact.

- Measuring range: 0 - 60.9 mm.
- Resolution: 0.01, 0.001 or 0.0005 mm, switchable.
- RS232C data output (only 543.561/563).
- Digimatic data output.
- On/off switch.
- Reset/preset.
- Hold function.
- Clamping stem: ø8 mm.
- Tungsten carbide stylus tip: ø3 mm.
- Reversible measuring direction.
- Adjustable tolerance limits.
- Conforms to factory standard.
- Power supply: AC adapter.

ID-F

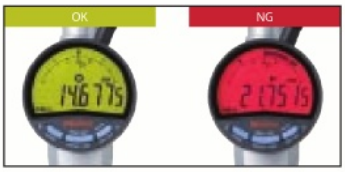
- LCD display 330° rotatable.
- Bidirectional data transfer.
- Digimatic S1 data output.



543.561



543.851



NEW

Item No.	Measuring range/mm	Resolution mm	Accuracy mm	Measuring force/N	Price EUR
ID-F					
543.851	0 - 25.4	0.0005/0.001/0.01	±0.0025	≤1.8	911.00
543.853	0 - 50.8	0.0005/0.001/0.01	±0.004	≤2.3	987.00
543.857	0 - 50.8	0.0005/0.001/0.01	±0.003	≤2.3	1,060.00
ID-H					
543.561	0 - 30.4	0.001/0.0005	±0.0015	≤2.0	914.00
543.563	0 - 60.9	0.001/0.0005	±0.0025	≤2.5	1,132.00
Options:					
210.099[1] Remote control					96.00
540.774[1] Cable retraction device, 12 mm stroke					29.90
210.131[1] RS232C cable, 2 m					240.00
936.937[1] Digimatic signal cable without data switch, 1 m					55.00
965.014[1] Digimatic signal cable without data switch, 2 m					70.00
106.021[2] Digimatic S1 signal cable without data switch, 2 m					82.00
264.020 USB Input Tool Interface box					253.00
106.383[1] USB Input Tool Direct cable, 2 m					121.00
106.001[2] USB Input Tool Direct cable, 2 m					160.00
102.794[1] U-WAVE data cable					96.00
106.543[2] USB ITPAK V3.0					333.00



210.099

[1] Only for ID-H.
[2] Only for ID-F.

C05.341.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Dial indicators 0.01 mm

Indicators with an excellent price-performance ratio.

- Measuring range: 0 - 10 mm.
- Graduation: 0.01 mm.
- Clamping stem: ø 8 mm.
- Dial diameter: 55 mm.
- Rotatable dial.
- Adjustable tolerance markers.
- Flat back.
- Delivery with a manufacturer measuring report.



907.930

PRICE

Item No.	Measuring range/mm	Price EUR
907.928	0 - 3	18.20
907.929	0 - 5	18.20
907.930	0 - 10	19.00
Option:		
908.799	Back with lug	2.30

Dial indicators 0.01 mm

Indicators with a large dial and a locking screw. Shockproof design.

- Measuring range: 0 - 10 mm.
- Graduation: 0.01 mm.
- Clamping stem: ø 8 mm.
- Dial diameter: 60 mm.
- Rotatable dial.
- Adjustable tolerance markers.
- Locking screw.
- Flat back.
- Delivery with a manufacturer measuring report.



907.933


907.933
+906.359

PRICE

Item No.	Measuring range/mm	Price EUR
907.931	0 - 3	18.20
907.932	0 - 5	19.00
907.933	0 - 10	19.00
Options:		
908.987	Back with lug	2.30
906.359	Retraction lever	4.30

C05.306.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Dial indicators 0.01 mm

Indicators with a large measuring range.

- Measuring range: 0 - 100 mm.
- Graduation: 0.01 mm.
- Clamping stem: ø 8 mm.
- Rotatable dial.
- Adjustable tolerance markers (except 907.916).
- Locking screw.
- Flat back.
- Delivery with a manufacturer measuring report.


907.934


907.936


907.935


907.916

Item No.	Measuring range/mm	Dial ø/mm	Price EUR
907.934	0 - 25	60	34.00
907.935	0 - 30	60	35.30
907.936	0 - 50	76	74.00
907.916	0 - 100	80	162.00
Options:			
908.987[1] Back with lug			2.30
908.988[2] Back with lug			3.20

[1] For 907.934/935.
[2] For 907.936/916.

Splashproof dial indicators 0.01 mm

Indicators with splashproof design.

- Measuring range: 0 - 10 mm.
- Graduation: 0.01 mm.
- Clamping stem: ø 8 mm.
- Dial diameter: 55 mm.
- Rotatable dial.
- Shockproof.
- Adjustable tolerance markers.
- Locking screw.
- Back with lug.
- Protection: IP54.
- Conforms to factory standard.


908.779

Item No.	Measuring range/mm	Price EUR
908.777	0 - 3	46.00
908.778	0 - 5	48.00
908.779	0 - 10	51.00

C05.303.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Miniature dial indicator 0.01 mm

Indicator with very small dimensions and an excellent price-performance ratio.

- Measuring range: 0 - 10 mm.
- Graduation: 0.01 mm.
- Clamping stem: ø 8 mm.
- Dial diameter: 40 mm.
- Rotatable dial.
- Adjustable tolerance markers.
- Locking screw.
- Flat back.
- Delivery with a manufacturer measuring report.



907.925



Item No.	Measuring range/mm	Price EUR
Graduation 0.01 mm:		
907.925	0 - 3	19.20
907.926	0 - 5	19.20
907.927	0 - 8	20.30
907.914	0 - 10	24.50
Option:		
908.986	Back with lug	1.60

Dial indicators 0.001 mm

Indicators with micrometer reading. Shockproof design.

- Measuring range: 0 - 5 mm.
- Graduation: 0.001 mm.
- Clamping stem: ø 8 mm.
- Dial diameter: 60 mm.
- Rotatable dial.
- Scale numbering: 0 - 100 - 0.
- Shockproof.
- Adjustable tolerance markers.
- Locking screw.
- Flat back.
- Delivery with a manufacturer measuring report.



907.921



Item No.	Measuring range/mm	Price EUR
907.921	0 - 1	48.00
907.922	0 - 2	72.00
907.923	0 - 3	72.00
907.924	0 - 5	126.00
Option:		
908.987	Back with lug	2.30

C05.311.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Peacock dial indicators 0.1 and 0.01 mm

- Measuring range: 0 - 80 mm.
- Graduation: 0.1 or 0.01 mm.
- Clamping stem: ø 8 mm (except 855.557: ø 10 mm and 855.589: ø 14 mm).
- Rotatable dial.
- Adjustable tolerance markers.
- Flat back or back with lug*.
- DIN 878.

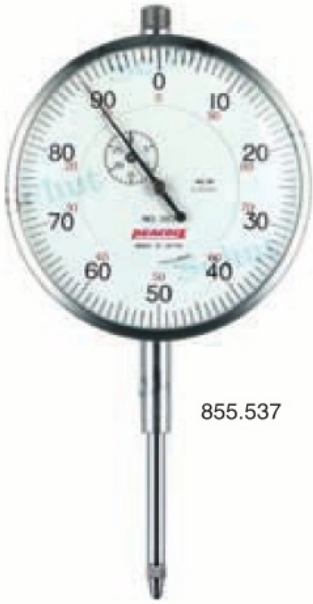

855.547


855.517


855.507/8


855.589


855.527


855.537

Item No.	Measuring range/mm	Dial ø/mm	Max. hysteresis mm	Measuring force/N	Accuracy mm	Price EUR
Graduation 0.01 mm:						
855.547	0 - 4	36	0.004	< 1.4	± 0.018	61.00
855.536	0 - 3	40	0.004	< 1.4	± 0.016	107.00
855.517	0 - 5	53	0.004	< 1.4	± 0.015	41.00
855.507	0 - 10	53	0.004	< 1.4	± 0.015	37.60
855.508*	0 - 10	53	0.004	< 1.4	± 0.015	37.60
855.527*	0 - 20	66.5	0.005	< 2.0	± 0.025	89.00
855.537*	0 - 30	76	0.007	< 2.2	± 0.030	140.00
855.557*	0 - 50	83	0.008	< 2.5	± 0.100	264.00
Graduation 0.1 mm:						
855.589*	0 - 80	112	–	< 2.5	± 0.100	444.00

* Back with lug.

C05.218.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Peacock dial indicators 0.005 and 0.001 mm

- Measuring range: 0 - 5 mm.
- Graduation: 0.005 or 0.001 mm.
- Clamping stem: ø 8 mm.
- Rotatable dial.
- Flat back or back with lug*.
- DIN 878.



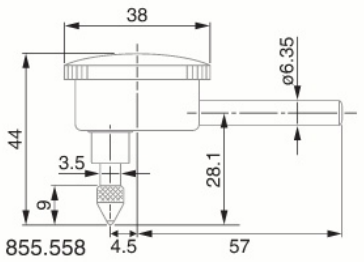
Item No.	Measuring range/mm	Dial ø/mm	Max. hysteresis mm	Measuring force/N	Accuracy mm	Price EUR
Graduation 0.005 mm:						
855.535*	0 - 3	47	0.004	< 1.4	± 0.012	112.00
Graduation 0.001 mm:						
855.509	0 - 1	53	0.003	< 1.5	± 0.006	74.00
855.525*	0 - 2	66.5	0.003	< 1.5	± 0.007	146.00
855.555*	0 - 5	66.5	0.003	< 1.5	± 0.010	203.00

* Back with lug.

Peacock dial indicators with back plunger

The back plunger dial indicator is characterized with easy handling since the spindle with the contact point is moving in the direction perpendicular to the dial face and the gauge is more compact. The dial indicator of this type is convenient for use in achieving a parallelism in machine guides and for applications where most other dial indicators are not applicable, give too great of a measurement error, or are difficult to read due to the applied arrangement.

- Measuring range: 0 - 5 mm.
- Graduation: 0.01 mm.
- Accuracy: ± 0.018 mm.
- Repeatability: 0.003 mm.
- Max. hysteresis: ± 0.004 mm.
- Measuring force: < 1.4 N.
- Rotatable dial.
- Scale numbering: 0 - 100.
- DIN 878.









Item No.	Measuring range/mm	Clamping stem ø/mm	Price EUR
855.558	0 - 5	6.35	87.00
855.560	0 - 5	6	87.00
Clamping stem on back side:			
855.559	0 - 5	8	87.00

C05.219.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo dial indicators 0.01 and 0.001 mm

Dial indicators from Mitutoyo with a very favourable price-performance ratio. In our catalog we only represent a small part of the Mitutoyo program, but we can supply all Mitutoyo products.

- Graduation: 0.01 or 0.001 mm.
- Clamping stem: ø 8 mm.
- Dial diameter: 55.6 mm.
- Rotatable dial.
- Various models available.
- Locking screw and adjustable tolerance markers optionally available.

Graduation 0.01 mm

- Measuring range: 0 - 10 mm.
- Accuracy: ±0.013 mm.
- Max. hysteresis: 0.003 mm.
- Measuring force: 1.4 N.
- 1 pointer revolution = 1 mm.
- Scale numbering: 0 - 100 (100 - 0).
- Flat back or back with lug[1].



204.600



211.010



210.912


211.148 + 211.195

Item No.	Measuring range/mm	Graduation mm	Price EUR
204.600[1]	0 - 10	0.01	47.00
204.601	0 - 10	0.01	46.00
204.602[2]	0 - 10	0.01	137.00

[1] Back with lug.
[2] Splashproof model; measuring force 2.5 N.

Graduation 0.001 mm

- Measuring range: 0 - 1 mm.
- Accuracy: ±0.005 mm.
- Max. hysteresis: 0.002 mm.
- Flat back. (Back with lug available on request.)
- Conforms to factory standard.

Item No.	Measuring range/mm	Graduation mm	1 pointer revolution	Scale numbering	Measuring force/N	Price EUR
210.912	0 - 1	0.001	0.2 mm	0 - 100 - 0	1.5	103.00
211.010	0 - 1	0.001	0.1 mm	0 - 100 (100 - 0)	1.5	133.00
Options:						
211.148	Locking screw for 2 series dial indicators					1.70
211.195	Tolerance markers for 2 series dial indicators					0.60

C05.273.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

TESA dial indicators

TESA precision dial indicators with a high accuracy and a special construction guaranteeing a very long life.

- Measuring range: 0 - 50 mm.
- Graduation: 0.1 - 0.001 mm.
- Clamping stem: ø 8 mm.
- Rotatable dial with adjustable tolerance markers.
- Flat back, except 782.296.
- Delivery with a declaration of conformity.


783.632

NEW

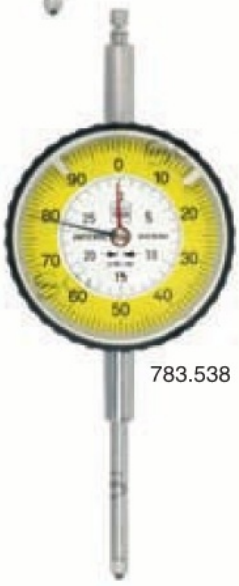

783.643


782.724


783.644


783.494

Item No.	Measuring range/mm	Accuracy mm	Dial ø/mm	Scale numbering	Shockproof	Price EUR
Graduation 0.1 mm:						
783.632	0 - 10	0.055	40	0 - 10	*no*	109.00
782.801	0 - 10	0.055	58	0 - 10	*no*	84.00
783.494	0 - 30	0.055	58	0 - 10	*no*	102.00
Graduation 0.01 mm:						
783.643	0 - 3.5	0.017	28	0 - 50	*no*	155.00
782.723	0 - 5	0.012	40	0 - 50	*yes*	112.00
782.724	0 - 10	0.015	58	0 - 100	*yes*	72.00
783.538	0 - 30	0.020	58	0 - 100	*no*	187.00
783.633	0 - 50	0.025	58	0 - 100	*no*	251.00
Graduation 0.01 mm, protection IP67:						
783.644	0 - 5	0.012	44.5	0 - 50	*yes*	211.00
783.648	0 - 10	0.015	61.5	0 - 100	*yes*	211.00
Graduation 0.002 mm:						
783.645	0 - 3	0.007	44.5	0 - 20	*yes*	251.00
783.649	0 - 5	0.010	61.5	0 - 20	*yes*	245.00
Graduation 0.002 mm, protection IP67:						
783.646	0 - 3	0.007	44.5	0 - 20	*yes*	327.00
Graduation 0.001 mm:						
783.647	0 - 1	0.005	44.5	0 - 10	*yes*	277.00
783.650	0 - 1	0.005	61.5	0 - 10	*yes*	262.00
783.651	0 - 5	0.010	61.5	0 - 20	*yes*	283.00
Clamping stem on back side:						
782.296	0 - 3	0.012	40	0 - 50	*no*	191.00


783.538


782.296

Schut

C05.333.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

TESA dial indicators

TESA precision dial indicators with a high accuracy and a special construction guaranteeing a very long life.

- Measuring range: 0 - 10 mm.
- Graduation: 0.01 - 0.001 mm.
- Clamping stem: ø 8 mm.
- Measuring force: approx. 1 N (only 781.682).
- Rotatable dial (except 781.682).
- Adjustable tolerance markers.
- Fine adjustment (only 781.682).
- Flat back.
- DIN 878 (except 781.682 and 783.221).
- DIN 879 (only 781.682).


779.925


779.935


782.417


783.221


781.682

Item No.	Measuring range/mm	Accuracy mm	Dial ø/mm	Scale numbering	Shock-proof	Graduation mm	Price EUR
781.681	0 - 5	0.014	40	0 - 50	no	0.01	197.00
781.693	0 - 1	0.005	58	0 - 100	yes	0.001	325.00
781.695	0 - 5	0.005	58	0 - 200	yes	0.001	322.00
781.691	0 - 10	0.017	58	0 - 100	no	0.01	200.00
781.686	0 - 10	0.017	58	0 - 100	yes	0.01	233.00
779.913[1]	0 - 1	0.005	40	0 - 100	yes	0.001	336.00
781.685[1]	0 - 1	0.005	40	0 - 100	yes	0.001	242.00
781.683[1]	0 - 5	0.014	40	0 - 50	no	0.01	115.00
779.925[1]	0 - 5	0.014	40	0 - 50	yes	0.01	270.00
779.935[1]	0 - 1	0.005	58	0 - 100	no	0.001	349.00
783.253	0 - 0.4	0.014	40	20 - 0 - 20	no	0.01	118.00
782.417	0 - 5	0.014	40	0 - 50	no	0.01	197.00
783.221	0 - 1	0.009	58	50 - 0 - 50	yes	0.01	288.00
782.799	0 - 10	0.017	58	0 - 100	no	0.01	200.00
781.682[1]	0 - 0.1	0.0012	62	50 - 0 - 50	yes	0.001	238.00

[1] Protection: IP54.

C05.221.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Käfer dial indicators 0.01 mm

These recently developed Käfer dial indicators are very stable and have a very good price-performance ratio. Also available in a shockproof design, where blows against the plunger can not damage the mechanics.

- Measuring range: 0 - 10 mm.
- Graduation: 0.01 mm.
- Clamping stem: ø 8 mm.
- Dial diameter: 40 mm (851.700: 58 mm).
- Scale numbering: 0 - 50 (852.291: 0 - 100), (851.700: 0 - 50 - 0).
- Adjustable tolerance markers.
- Flat back.
- Clamping stem and measuring pin out of hardened stainless steel.
- DIN 878.
- Delivery in a plastic case.



852.353

Item No.	Measuring range/mm	Graduation mm	Price EUR
852.350	0 - 3	0.01	47.00
852.352	0 - 5	0.01	60.00
Shockproof design:			
851.700	0 - 0.8	0.01	75.00
852.351	0 - 3	0.01	58.00
852.353	0 - 5	0.01	75.00
852.291	0 - 10	0.01	85.00

Käfer dial indicators 0.01 mm

These dial indicators have an almost constant measuring force of 1 N over the total measuring range. This is achieved through a built-in lever construction. The shockproof design protects the mechanics against harsh blows and reduces the possibility of damage. The shockproof design has an unbreakable cover glass.

- Measuring range: 0 - 10 mm.
- Graduation: 0.01 mm.
- Measuring force: approx. 1 N.
- Clamping stem: ø 8 mm.
- Dial diameter: 58 mm.
- Scale numbering: 0 - 100.
- Adjustable tolerance markers.
- Flat back.
- DIN 878.
- Delivery in a plastic case.



852.355

Item No.	Measuring range/mm	Graduation mm	Price EUR
852.354	0 - 10	0.01	49.00
Shockproof design:			
852.355	0 - 10	0.01	49.00

C05.223.EN.20230516

Käfer dial indicators 0.01 mm

These Käfer dial indicators combine a large measuring range with a high accuracy. The clear dials ensure an easy read-out. Thanks to the special construction, these dial indicators have an almost constant measuring force on the whole measuring range.

- Measuring range: 0 - 100 mm.
- Graduation: 0.01 mm.
- Measuring force: approx. 1 N (852.290 approx. 1.5 N, 852.289 approx. 1.2 N).
- Clamping stem: ø 8 mm (except 852.289: ø 10 mm).
- Dial diameter: 58 mm.
- Rotatable dial.
- Adjustable tolerance markers.
- Flat back.
- Clamping stem and measuring pin out of hardened stainless steel.
- Conforms to factory standard.



Item No.	Measuring range/mm	Accuracy mm	Scale numbering	Price EUR
852.356	0 - 30	±0.02	0 - 100	109.00
852.357	0 - 50	±0.025	0 - 100	155.00
852.290	0 - 80	±0.030	0 - 100	321.00
852.289	0 - 100	±0.050	0 - 100	407.00

Käfer Feinika dial indicators 0.001 mm

The Käfer Feinika dial indicators have a special construction without gear wheels, comparable to the precision dial indicators. A special lever construction enlarges the measuring range up to 1 mm. This lever construction gives the Feinika a very low hysteresis of maximal 1.5 µm, making it very suitable for very accurate comparative measurements where a large measuring range is necessary. Just like the precision dial indicators the Feinika has a resolution of 0.001 mm.



- Measuring range: 0 - 1 mm.
- Graduation: 0.001 mm.
- Hysteresis: ≤0.0015 mm.
- Clamping stem: ø 8 mm.
- Shockproof.
- Adjustable tolerance markers.
- Conforms to factory standard.
- Delivery in a plastic case.

Item No.	Measuring range/mm	Accuracy mm	Dial ø/mm	Scale numbering	Price EUR
852.358	0 - 1	±0.004	40	0 - 100	198.00
852.359	0 - 1	±0.004	58	0 - 100	198.00

C05.224.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Precision dial indicator

Highly accurate dial indicator for measurements from a fixed reference point. Very suitable for internal measuring instruments and dial indicator stands for example.

- Measuring range: 0.1 mm.
- Graduation: 0.001 mm.
- Measuring force: <2 N.
- Clamping stem: ø8 mm.
- Travel: 3 mm.
- Adjustable tolerance markers.
- Fine adjustment.
- Delivery in a plastic case with a manufacturer measuring report.



PRICE

Item No.	Measuring range/mm	Dial ø/mm	Price EUR
907.939	0.1	63.5	182.00

Precision dial indicators

- Measuring range: 0.06 mm.
- Graduation: 0.0005 mm or 0.001 mm.
- Measuring force: approx. 1 N.
- Clamping stem: ø28 mm.
- Shockproof.
- Fine adjustment.
- Delivery with an inspection report.

For dial indicator stands see dial indicator stands elsewhere in this catalog.



906.333



PRICE

Item No.	Measuring range/mm	Resolution mm	Scale numbering	Price EUR
906.332	0.03	0.0005	15-0-15	139.00
906.333	0.06	0.001	30-0-30	113.00

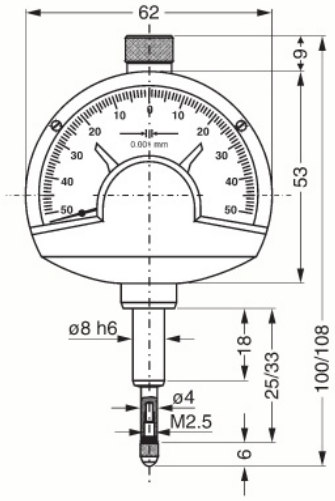
C05.339.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Käfer Compika precision dial indicators

Accurate precision dial indicators with stable, multiple ball-bearing mechanics. Because of that the Compika has a very low hysteresis. Easy to set by the fine adjustment on top of the dial indicator, that has a protective knob to prevent unintentional displacement of the pointer.

- Measuring range: 0.1 mm.
- Graduation: 0.001 mm.
- Measuring force: approx. 1 N.
- Clamping stem: ø 8 mm.
- Max. probe travel: 3 mm.
- Ball bearing probe rod.
- Protective knob.
- Shockproof.
- Waterproof (only 852.386).
- Adjustable tolerance markers.
- Fine adjustment.
- Clamping stem and measuring pin out of hardened stainless steel.
- DIN 879.
- Delivery in a plastic case.





852.360

852.386

Item No.	Measuring range/mm	Waterproof	Dial ø/mm	Scale numbering	Price EUR
852.360	0.1	no	62	50-0-50	188.00
852.386	0.1	yes	62	50-0-50	241.00

Käfer Sensikator low force precision dial indicator

The precision dial indicator Sensikator combines the advantages of high precision with an exceptionally low measuring force. A fine glass pointer allows for a large reduction in inertia. The pointer and scale lines cover each other perfectly, this achieves a very accurate reading.

- Measuring range: 0.1 mm.
- Graduation: 0.001 mm.
- Measuring force: approx. 0.14 N ±20%.
- Clamping stem: ø 8 mm.
- Max. probe travel: 2.4 mm.
- Shockproof.
- Adjustable tolerance markers.
- Fine adjustment.
- DIN 879.
- Due to the exceptionally low measuring force, only useable in upright position.
- Delivery in a plastic case.

NEW



Item No.	Measuring range/mm	Dial ø/mm	Scale numbering	Price EUR
851.671	0.1	66	50-0-50	662.00

C05.335.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Schwenk precision dial indicators

Highly accurate shockproof dial indicators for measurements from a fixed reference point. Very suitable for internal measuring instruments and dial indicator stands for example.

- Measuring range: up to 0.5 mm.
- Graduation: 0.01 or 0.001 mm.
- Measuring force: approx. 1 N.
- Clamping stem: ø 8 mm.
- Dial diameter: 63 mm.
- Max. probe travel: 3 mm.
- Ball bearing probe rod.
- Adjustable tolerance markers.
- DIN 879.
- Delivery in a plastic case.



852.640



852.641

Item No.	Type	Measuring range/mm	Graduation mm	Price EUR
852.640	Mytast	0.1	0.001	215.00
852.641	Centitast	0.5	0.01	171.00

TESA precision dial indicators

- Measuring range: 0.1 mm.
- Graduation: 0.001 mm.
- Measuring force: approx. 1 N.
- Clamping stem: ø 8 mm.
- Max. probe travel: 3 mm.
- Shockproof.
- Protection: IP54 (only 781.700).
- Adjustable tolerance markers.
- Fine adjustment.
- Clamping stem and measuring pin out of hardened stainless steel.
- DIN 879.



781.699


781.700

Item No.	Measuring range/mm	Accuracy mm	IP54	Dial ø/mm	Price EUR
781.699	0.1	0.0012	no	62	306.00
781.700	0.1	0.0012	yes	62	339.00

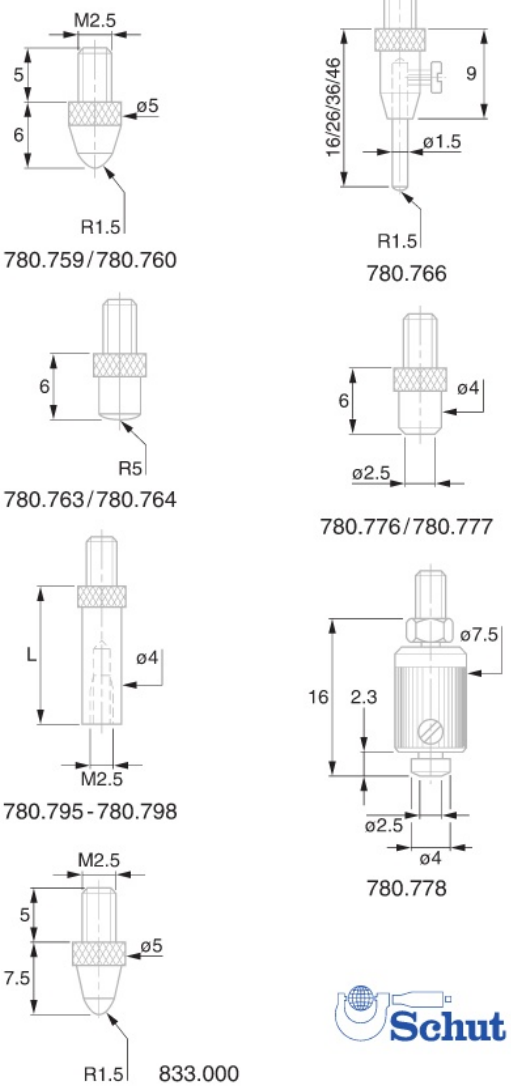
C05.337.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Inserts and extensions

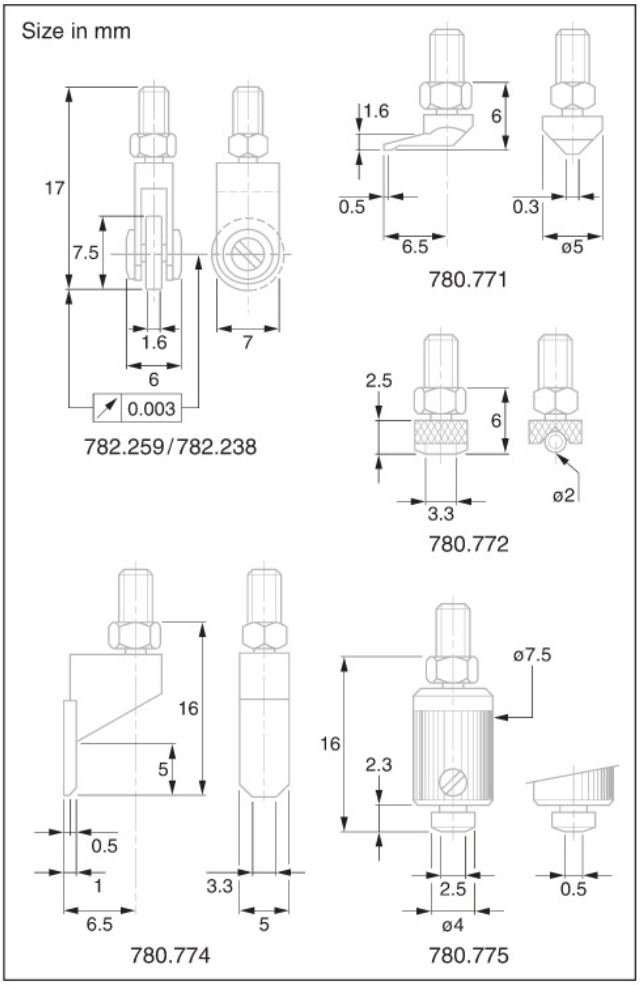
Most dial indicators are equipped with an interchangeable insert with thread M2.5. Besides the inserts shown below various other types are available.

Size in mm



Item No.	Type	Price EUR
Ball radius 1.5 mm:		
780.759	Steel	6.00
780.760	Tungsten carbide	10.50
780.766	4 interchangeable inserts	29.00
Ball radius 5 mm:		
780.763	Steel	26.00
780.764	Tungsten carbide	51.00
Flat:		
780.776	Steel	30.00
780.777	Tungsten carbide	55.00
780.778	Flat, adjustable meas. face	450.00

Size in mm



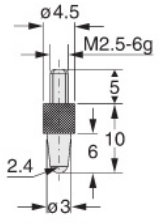
Item No.	Type	Price EUR
Special forms:		
782.259	Roller with a cylindrical measuring face	132.00
782.238	Roller with a ball-shaped measuring face	126.00
780.771	Offset point	52.00
780.772	Cylindrical point	52.00
780.774	Offset line contact face	85.00
780.775	V-shaped adjustable point	595.00
Extensions:		
780.795	10 mm	9.00
780.796	15 mm	9.00
780.797	20 mm	9.00
780.798	40 mm	9.00
Special probe head:		
833.000	Ceramic ball ø 3 mm	34.70

C05.230.EN.20230516

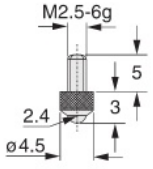
© 2023, Schut Geometrische Meettechniek bv

Käfer inserts

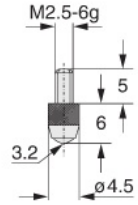
Inserts with thread M2.5. The inserts are made of steel unless otherwise indicated; tungsten carbide (TC), ruby (R) or sapphire (S).



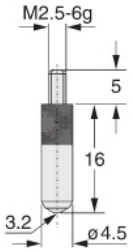
852.400



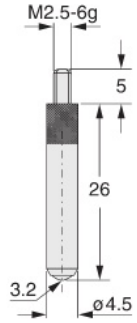
852.401



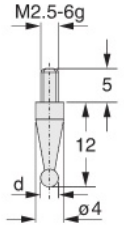
852.402 - 405



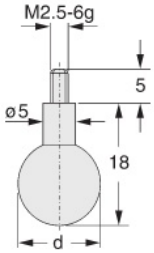
852.406 - 409



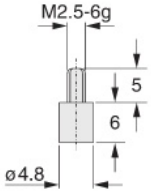
852.410 - 413



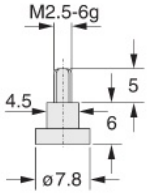
852.414 - 425
852.327



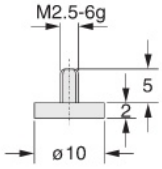
852.426 - 430



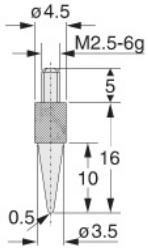
852.431/432



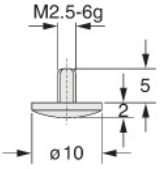
852.433



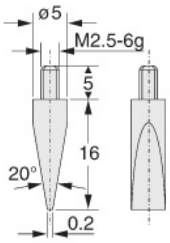
852.434/435



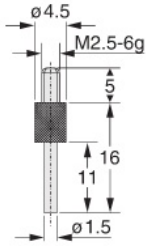
852.436



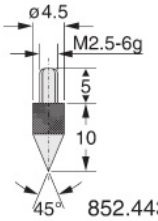
852.437/438



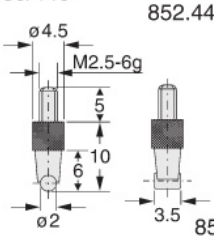
852.439/440



852.441/442



852.443/444



852.445

Item No.	Description				Price EUR
Ball probes:					
852.400	*d* = 2.4 mm	*l* = 10 mm			4.30
852.401	*d* = 2.4 mm	*l* = 3.0 mm			1.60
852.402	*d* = 3.2 mm	*l* = 6.0 mm			1.30
852.403	*d* = 3.2 mm	*l* = 6.0 mm	TC		6.20
852.404	*d* = 3.2 mm	*l* = 6.0 mm	R		8.20
852.405	*d* = 3.2 mm	*l* = 6.0 mm	S		8.20
852.406	*d* = 3.2 mm	*l* = 16 mm			4.40
852.407	*d* = 3.2 mm	*l* = 16 mm	TC		14.80
852.408	*d* = 3.2 mm	*l* = 16 mm	R		11.80
852.409	*d* = 3.2 mm	*l* = 16 mm	S		11.80
852.410	*d* = 3.2 mm	*l* = 26 mm			4.40
852.411	*d* = 3.2 mm	*l* = 26 mm	TC		14.80
852.412	*d* = 3.2 mm	*l* = 26 mm	R		11.80
852.413	*d* = 3.2 mm	*l* = 26 mm	S		11.80
852.414	*d* = 1.0 mm	*l* = 12 mm			9.40
852.420	*d* = 1.0 mm	*l* = 12 mm	TC		28.60
852.327	*d* = 1.5 mm	*l* = 12 mm			9.00
852.415	*d* = 2.0 mm	*l* = 12 mm			9.40
852.421	*d* = 2.0 mm	*l* = 12 mm	TC		28.60
852.416	*d* = 3.0 mm	*l* = 12 mm			9.40
852.422	*d* = 3.0 mm	*l* = 12 mm	TC		28.60
852.417	*d* = 4.0 mm	*l* = 12 mm			9.40
852.423	*d* = 4.0 mm	*l* = 12 mm	TC		28.60
852.418	*d* = 5.0 mm	*l* = 12 mm			9.40
852.424	*d* = 5.0 mm	*l* = 12 mm	TC		28.60
852.419	*d* = 6.0 mm	*l* = 12 mm			9.40
852.425	*d* = 6.0 mm	*l* = 12 mm	TC		28.60
852.426	*d* = 7.0 mm	*l* = 18 mm			10.00
852.427	*d* = 8.0 mm	*l* = 18 mm			10.00
852.428	*d* = 9.0 mm	*l* = 18 mm			10.00
852.429	*d* = 10.0 mm	*l* = 18 mm			10.00
852.430	*d* = 11.0 mm	*l* = 18 mm			10.00
Flat probes:					
852.431	*d* = 4.8 mm	*l* = 6 mm			5.30
852.432	*d* = 4.8 mm	*l* = 6 mm	TC		34.20
852.433	*d* = 7.8 mm	*l* = 6 mm			6.40
852.434	*d* = 10.0 mm	*l* = 2 mm			5.90
852.435	*d* = 10.0 mm	*l* = 2 mm	TC		56.00
Spherical probes:					
852.436	conical	*l* = 16 mm			7.00
852.437	*d* = 10.0 mm	*l* = 2.0 mm			7.40
852.438	*d* = 10.0 mm	*l* = 2.0 mm	TC		116.00
Knife-edged probes:					
852.439	*d* = 5.0 mm	*l* = 16 mm			11.30
852.440	*d* = 5.0 mm	*l* = 16 mm	TC		74.00
Needle-shaped probes:					
852.441	*d* = 1.5 mm	*l* = 16 mm			8.80
852.442	*d* = 1.5 mm	*l* = 16 mm	TC		29.20
Tapered probes:					
852.443	*d* = 4.5 mm point 45°	*l* = 10 mm			7.00
852.444	*d* = 4.5 mm point 45°	*l* = 10 mm	TC		61.00
Probe with cylindrical measuring face:					
852.445	*d* = 2 x 3.5 mm	*l* = 10 mm			12.70

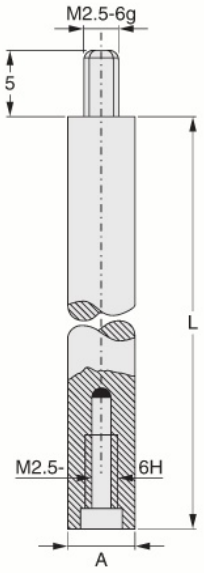
C05.231.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Extensions for inserts

Steel extensions for inserts with thread M2.5.

Item No.	Length mm	Price EUR
Extensions with A = ø 4 mm:		
852.446	10	5.10
852.447	15	5.10
852.448	20	5.10
852.449	25	5.10
852.450	30	5.10
852.451	35	5.10
852.452	40	5.10
852.453	45	5.10
852.454	50	5.10
852.455	55	5.10
852.456	60	5.10
852.457	65	5.10
852.458	70	5.10
852.459	75	5.10
852.460	80	5.10
852.461	85	5.10
852.462	90	5.10
852.463	95	5.10
852.464	100	5.10

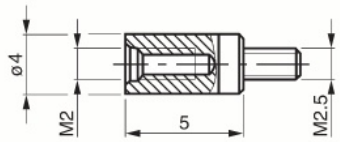


Item No.	Length mm	Price EUR
Extensions with A = ø 5 mm:		
852.465	10	5.30
852.466	15	5.30
852.467	20	5.30
852.468	25	5.30
852.469	30	5.30
852.470	35	5.30
852.471	40	5.30
852.472	45	5.30
852.473	50	5.30
852.474	55	5.30
852.475	60	5.30
852.476	65	5.30
852.477	70	5.30
852.478	75	5.30
852.479	80	5.30
852.480	85	5.30
852.481	90	5.30
852.482	95	5.30
852.483	100	5.30

Adapters for inserts

Adapter for attaching other inserts to dial indicators and probes with an interchangeable insert with thread M2.5.

Item No.	External/internal thread	Price EUR
960.276	M2.5/M2	7.40



Käfer long angular heads for dial indicators

- Clamping shaft: ø 8 mm.
- Extensions stem: ø 8 mm.
- Thread for inserts and extensions: M2.5.
- Max. probe travel: 4 mm.
- One extension and extra insert are needed for the angular head to function.
  Please see the dial indicator accessories section for these inserts.



NEW



Item No.	Description	Price EUR
Long angular heads:		
851.019	Long angular head 90°	272.00
851.020	Long angular head 45°	272.00
851.021	Long angular head 0°	195.00
Extensions:		
851.022	Extension 15 mm	206.00
851.023	Extension 25 mm	206.00
851.024	Extension 50 mm	206.00
851.025	Extension 75 mm	206.00
851.026	Extension 100 mm	277.00

C05.336.EN.20230516

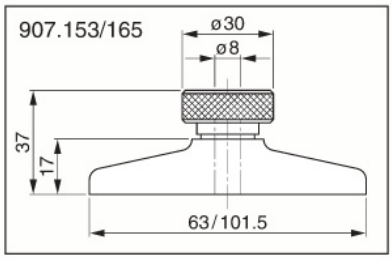
© 2023, Schut Geometrische Meettechniek bv

Depth measuring bases for dial indicators

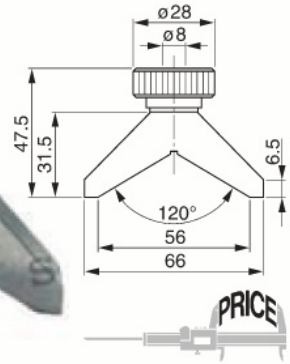
Bases which make dial indicators and probes suitable for depth measurements.

■ Clamping shaft: 8H7.

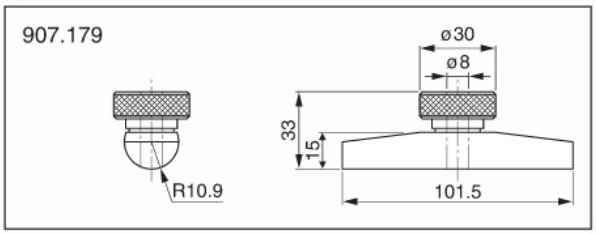












Item No.	Measuring face *l* x *w*/mm	Price EUR
907.153	63 x 17	19.80
907.165	101.5 x 17	20.80
With V-shaped measuring face:		
906.644	66 x 16	36.00
With cylindrical measuring face:		
907.179	101.5 x R10.9	25.00

Bridges

A number of standard bridges have been developed for arithmetic indicators to provide several convenient measuring solutions. The accuracy depends on the radius and form deviation of the workpiece. Custom-made bridges are also possible.





Item No.	Description	Price EUR
131.047	Bridge, r = 15 - 80 mm	213.00
131.040	Bridge, r = 40 - 210 mm	448.00
131.043	Bridge, r > 40 mm	206.00
131.044	Bridge, r > 120 mm	261.00
131.045	Bridge, r > 420 mm	281.00
131.046	Bridge, r > 1000 mm	301.00
131.042	Groove gauge 2 - 23 mm	269.00

C05.338.EN.20230516

Retraction levers

To determine the right type of retraction lever please contact our sales department.

Retraction lever

Universal retraction lever, bottom mounted. This lever is fully compatible with TESA dial indicators, but can also be used with a wide range of other dial indicators.



Item No.	Description	Price EUR
780.782	Retraction lever	143.00
	Consisting of:	
780.779	Lever	139.00
780.780	Washer	8.60

Retraction lever

Universal retraction lever, bottom mounted and compatible with any dial indicator with an interchangeable probe with M2.5 thread.



Item No.	Description	Price EUR
781.727	Retraction lever	25.00

Retraction lever

Universal retraction lever, bottom mounted and compatible with any dial indicator.



Item No.	Description	Price EUR
137.693	Retraction lever	5.00

Retraction levers

Universal retraction levers, top mounted. These levers are fully compatible with TESA and Käfer dial indicators of the given diameters, but can also be used with a wide range of other dial indicators.



Item No.	Description	Dial ø/mm	Price EUR
782.320	TESA lever	40	41.00
782.321	TESA lever	58	79.00
852.387	Käfer lever	58	7.40

Mitutoyo retraction levers

Universal retraction levers, top mounted. These levers are fully compatible with Mitutoyo dial indicators of the given series, but can also be used with a wide range of other dial indicators.

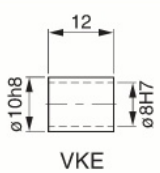


Item No.	Description	Price EUR
210.198	For ID-C, S-SS, series 2, up to 12 mm measuring range	14.00
902.100	For S type and A type series	115.00

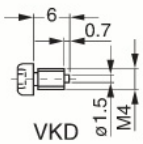
C05.308.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Clamping bush



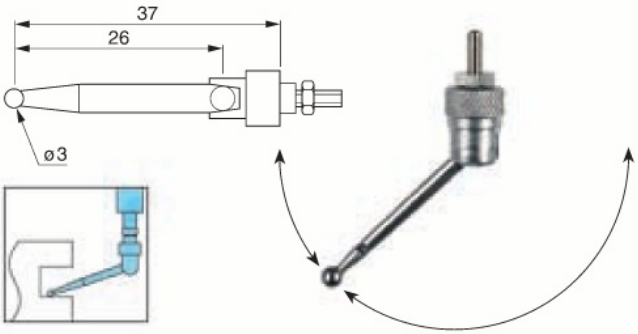

780.398



Item No.	Description	Price EUR
780.398	Clamping bush VKE	9.60
780.397	Clamping screw VKD	3.60

Swivel-type probe

Swivel-type probe for dial indicators with M2.5 thread. The probe can be oriented over 180°. Equipped with a steel ball probe ø 3 mm.



Item No.	Description	Price EUR
900.391	Swivel-type probe	32.00

Angle probe and special probe

Probes e.g. for checks and alignments of bores on lathes.

- Probe measuring range: 10 mm.
- Measuring depth: 30 mm (856.149) or 60 mm (856.150).
- Clamping stem: ø 8 mm.
- Clamping shaft: ø 8 mm.

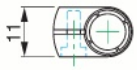

856.149

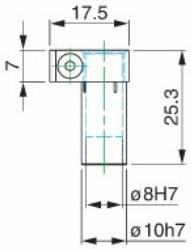

856.150

Item No.	Description	Price EUR
856.149	Angle probe	113.00
856.150	Special probe	106.00

Clamping bush







Item No.	Description	Price EUR
906.497	Clamping bush	26.10

Angle probe

Angle probe used for the transmission of the plunger movements up to 10 mm. Suited for dial indicators with a 0.01 mm graduation. Delivery incl. flat insert ø 5 mm.

- Probe measuring range: 10 mm.
- Clamping shaft: ø 8 mm.



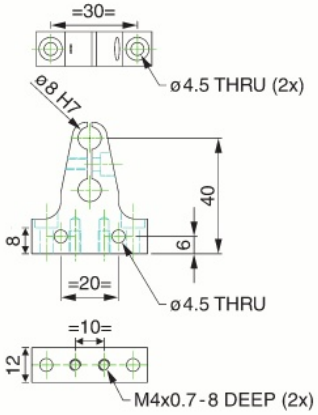
Item No.	Description	Price EUR
782.440	Angle probe	259.00

Probe holder

Probe holder for for surfacemounting.

- Clamping shaft: ø 8 mm.
- For attaching with M4 bolts.
- Material: anodized aluminum.





Item No.	Description	Price EUR
993.054	Probe holder	50.00

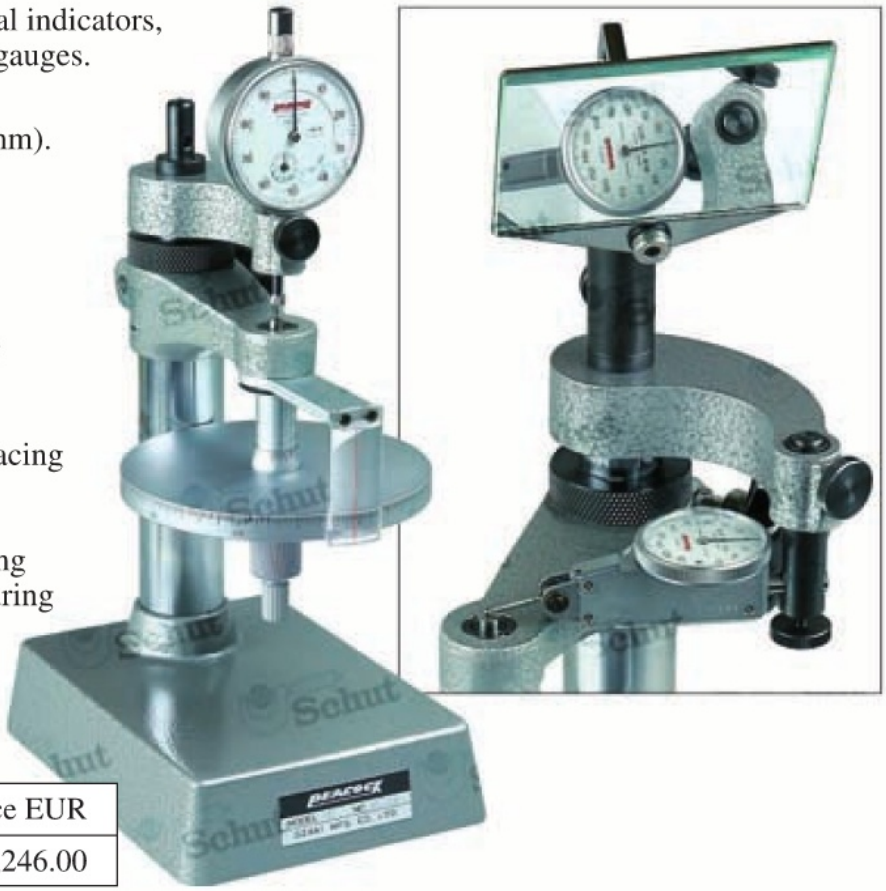
C05.309.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Peacock dial indicator tester

For checking the accuracy of dial indicators, lever-type dial test indicators and gauges.

- Measuring range: 20 mm (max. spindle thread pitch: 25 mm).
- Graduation: 0.001 mm.
- Accuracy: ±0.002 mm.
- Several mounting possibilities: vertical intake ø8 mm, horizontal intake ø6 mm.
- Please see the dial test indicator accessories section for other mounting possibilities.
- Provided with mirror for dials facing upward.
- Type NB.
- Delivery in an aluminum carrying case with a manufacturer measuring report.



Item No.	Description	Price EUR
855.620	Dial indicator tester	1,246.00

Dial indicator backs

Dial indicators are by default delivered with either a flat back or a back with lug. For many dial indicators alternative back plates are available, which considerably increases the flexibility for mounting the dial indicators.

The many possible combinations make it impossible to specify them all. The given selection is an impression of the possibilities.

With lug in the middle



With threaded bush



With shifted lug



With adjustable fixture



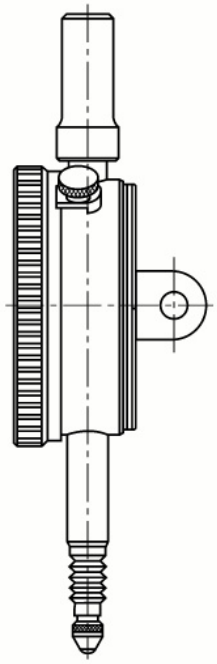
With magnet



With fixing shank



Flat back



C05.305.EN.20230516

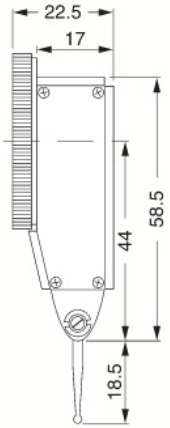
© 2023, Schut Geometrische Meettechniek bv

Lever-type dial test indicators

- Measuring range: up to 0.8 mm.
- Graduation: 0.01 or 0.002 mm.
- With dovetail joint and clamping stems ø6 and ø8 mm.
- Dial diameter: 40 mm.
- Rotatable dial.
- Stylus tip: ø2 mm.
- Insert thread: M1.8.
- Delivery with a manufacturer measuring report.

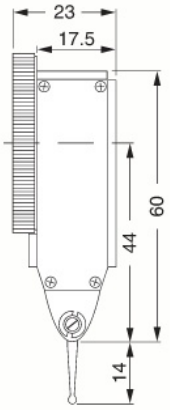


907.941





907.942









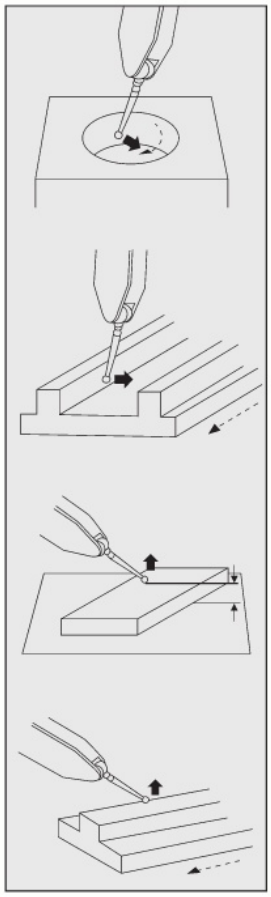
909.114/115



906.663/664



Clamping stem ø6/ø8 mm.



Item No.	Measuring range/mm	Graduation mm	Scale numbering	Insert length/mm	Price EUR
907.941	0.8	0.01	0-40-0	19	37.30
907.942	0.2	0.002	0-100-0	13	67.00
Options:					
909.114 Steel spare stylus tip for 907.941					8.90
909.115 Steel spare stylus tip for 907.942					8.90
906.663 Ruby spare stylus tip for 907.941					9.90
906.664 Ruby spare stylus tip for 907.942					9.90

C05.302.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Peacock lever-type dial test indicators

- Measuring range: up to 1 mm.
- Graduation: 0.01, 0.002 or 0.001 mm.
- With dovetail joint and clamping stem ø6 mm.
- Measuring force: <0.3 N (except 855.610: 0.05 N).
- Dial diameter: ø35 mm.
- Tungsten carbide stylus tip: ø2 mm.
- Insert thread: M1.7.
- Delivery in a plastic case with a manufacturer measuring report.



Inserts for lever-type dial test indicators

Item No.	Effective length (EL)/mm	Ball ø/mm	Price EUR
For 855.601, 855.605 and 855.610:			
859.016	17.74	2	7.70
859.152	17.74	1	11.60
859.151	17.74	0.8	11.60
859.290	17.74	0.5	58.00
For 855.602:			
859.126	39.00	2	11.10
859.291	39.00	1	13.90
859.292	39.00	0.8	13.90
859.293	39.00	0.5	58.00
For 855.603 and 855.606:			
859.200	14.33	2	7.00
859.294	14.33	1	13.90
859.295	14.33	0.8	11.60
859.296	14.33	0.5	58.00
For 855.604:			
859.259	8.13	2	7.00
859.297	8.13	1	11.60
859.298	8.13	0.8	11.60
859.299	8.13	0.5	58.00
For 855.611:			
859.464	19.24	2	5.80
859.465	19.24	1	11.60
859.466	19.24	0.8	11.60
859.467	19.24	0.5	58.00

Item No.	Measuring range/mm	Max. hysteresis mm	Accuracy mm	Graduation mm	Scale numbering	Insert	Total insert length (TL)/mm	Price EUR
Horizontal:								
855.601	0.5	0.005	±0.007	0.01	0-25-0	859.016	21.3	98.00
855.602	1	0.006	±0.011	0.01	0-50-0	859.126	42.8	119.00
855.603	0.28	0.004	±0.005	0.002	0-140-0	859.200	17.9	119.00
855.604	0.14	0.004	±0.005	0.001	0-70-0	859.259	11.7	124.00
855.611	0.8	0.005	±0.010	0.01	0-40-0	859.464	22.4	166.00
855.610	0.5	0.005	±0.007	0.01	0-25-0	859.016	21.3	110.00
Perpendicular:								
855.605	0.5	0.005	±0.007	0.01	0-25-0	859.200	21.3	101.00
855.606	0.28	0.004	±0.005	0.002	0-140-0	859.200	17.9	114.00

C05.225.EN.20230516

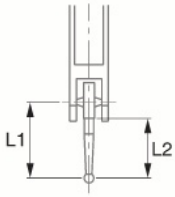
© 2023, Schut Geometrische Meettechniek bv

Mitutoyo lever-type dial test indicators 0.01 mm

These dial test indicators are able to measure in both directions without having to switch direction.

- Measuring range: up to 1 mm.
- Graduation: 0.01 mm.
- With dovetail joint and clamping stem ø8 mm.
- Dial diameter: ø40 mm.
- Tungsten carbide stylus tip: ø2 mm.
- Insert thread: M1.7.
- Jewel beared clockwork.
- Antimagnetic.
- Delivery in a plastic case with a manufacturer measuring report and a clamping stem.
- Various different models available.


513.454




513.424


513.414


513.484

Inserts

Item No.	Ball ø/mm	Price EUR
For 513.424/426:		
137.557[1]	2	20.00
290.654[2]	0.5	29.00
190.653[2]	0.7	23.00
137.558[1]	1	15.00
137.559[1]	3	15.00
For 513.414:		
131.324[1]	2	11.00
131.316[1]	1	11.00
For 513.403/454/484:		
103.006[1]	2	20.00
290.549[2]	0.5	29.00
290.550[2]	0.7	23.00
103.013[1]	1	15.00
210.201[3]	2	32.00
103.014[1]	3	15.00
For 513.415:		
136.013[1]	2	17.00
290.656[2]	0.5	31.00
290.655[2]	0.7	28.00
136.235[1]	1	14.00
211.211[3]	2	32.00
136.236[1]	3	14.00

[1] Tungsten carbide.
[2] Steel.
[3] Ruby.

Item No.	Measuring range/mm	Accuracy f_{ges}/mm	Hysteresis mm	Measuring force/N	Scale numbering	Insert	Insert length (L1/L2)/mm	Price EUR
Horizontal model:								
513.424	0.5	0.006	0.004	≤0.3	0-25-0	137.557	22.2/18.7	163.00
513.426	1.5	0.016	0.005	≤0.4	0-25-0	137.557	22.2/18.7	171.00
513.414	0.5	0.010	0.005	≤0.2	0-25-0	131.324	37.4/33.9	167.00
513.403	0.8	0.009	0.004	≤0.3	0-40-0	103.006	20.9/17.4	102.00
513.415	1	0.010	0.005	≤0.2	0-50-0	136.013	44.5/41.0	167.00
Vertical model:								
513.454	0.8	0.009	0.004	≤0.3	0-40-0	103.006	20.9/17.4	126.00
Parallel model:								
513.484	0.8	0.009	0.004	≤0.3	0-40-0	103.006	20.9/17.4	144.00

C05.271.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo lever-type dial test indicators 0.001 and 0.002 mm

These dial test indicators are able to measure in both directions without having to switch direction.

- Measuring range: up to 0.6 mm.
- Graduation: 513.401: 0.001 mm,
  513.465/406/425/475: 0.002 mm.
- With dovetail joint and clamping stem ø8 mm.
- Dial diameter: 513.465: ø29 mm,
  513.401/406/425/475: ø40 mm.
- Tungsten carbide stylus tip: ø2 mm, (except 513.475, ruby stylus tip: ø2 mm).
- Insert thread: M1.7.
- Jewel beared clockwork.
- Antimagnetic.
- Delivery in a plastic case with a manufacturer measuring report and a clamping stem.
- Various different models available.



513.401

Inserts

Item No.	Ball ø/mm	Price EUR
For 513.465/406/425/475:		
103.011[1]	2	20.00
131.314[1]	1	9.00
131.315[1]	3	11.00
210.068[2]	2	24.00
For 513.401:		
103.010[1]	2	20.00
290.547[3]	0.5	29.00
290.548[3]	0.7	23.00
103.017[1]	1	15.00
210.209[2]	2	32.00
103.018[1]	3	15.00

[1] Tungsten carbide.
[2] Ruby.
[3] Steel.

Item No.	Measuring range/mm	Accuracy mm	Measuring force/N	Scale numbering	Insert	Insert length (L1/L2)/mm	Price EUR
513.401	0.14	0.003	≤0.3	0-70-0	103.010	14.7/11.2	181.00
513.465	0.2	0.003	≤0.3	0-100-0	103.011	18.7/15.2	174.00
513.406	0.2	0.003	≤0.3	0-100-0	103.011	18.7/15.2	134.00
513.425	0.6	0.007	≤0.4	0-100-0	103.011	18.7/15.2	182.00
513.475	0.2	0.003	≤0.3	0-100-0	210.068	18.7/15.2	160.00

Mitutoyo lever-type dial test indicator sets

The sets 513.404/408 consist of:
– lever-type dial test indicator,
– insert with tungsten carbide tip ø1 mm, ø2 mm and ø3 mm,
– union nut, clamping stem ø4 mm and ø8 mm,
– universal rotatable holder,
– clamping stem for height gauge (9x9x100 mm),
– manufacturer measuring report and plastic case.

Set 513.908 consists of:
– lever-type dial test indicator,
– insert with tungsten carbide tip ø2 mm,
– small magnetic dial indicator stand (150 N magnetic force, holder ø6 mm and ø8 mm),
– shaft with serrated clamping ring,
– manufacturer measuring report and plastic case.





513.404

Item No.	Description	Accuracy/mm	Price EUR
513.404	Lever-type dial test indicator 0.8 mm (513.403) with several accessories	0.008	140.00
513.408	Lever-type dial test indicator 0.2 mm (513.406) with several accessories	0.003	171.00
513.908	Lever-type dial test indicator 0.8 mm (513.403) with small magnetic dial indicator stand	0.008	162.00

C05.328.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

TESA lever-type dial test indicators

- Measuring range: up to 2 mm.
- Graduation: 0.02, 0.01, 0.002 or 0.001 mm.
- With dovetail joint.
- Tungsten carbide (Tesatast) or ruby (Rubytast) stylus tip, ø2 mm.
- Insert thread: M1.4.
- DIN 2270.
- Delivery in a plastic case with a clamping stem (780.172).



780.143-
780.148



780.149-
780.151



780.152-
780.154



781.466-
781.467

Item No.	Measuring range/mm	Accuracy mm	Graduation mm	Dial ø/mm	Scale numbering	Insert length/mm	Price EUR
Tesatast, horizontal:							
780.143	0.8	0.010	0.01	28	0-0.4-0	12.53	153.00
780.144	0.8	0.010	0.01	38	0-0.4-0	12.53	163.00
780.145	0.5	0.010	0.01	28	0-0.25-0	36.53	172.00
780.146	0.5	0.010	0.01	38	0-0.25-0	36.53	187.00
780.147	0.2	0.002	0.002	28	0-100-0	12.53	172.00
780.148	0.2	0.002	0.002	38	0-100-0	12.53	191.00
780.820	0.2	0.002	0.001	38	0-100-0	12.53	198.00
Tesatast, lateral:							
780.149	0.8	0.010	0.01	28	0-0.4-0	12.53	272.00
780.150	2.0	0.027	0.02	38	0-1.0-0	36.53	293.00
780.151	0.2	0.002	0.002	28	0-100-0	12.53	306.00
Tesatast, perpendicular:							
780.152	0.8	0.010	0.01	28	0-0.4-0	12.53	289.00
780.153	0.5	0.010	0.01	28	0-0.25-0	36.53	405.00
780.154	0.2	0.002	0.002	38	0-100-0	12.53	362.00
Rubytast, horizontal:							
781.466	0.8	0.010	0.01	28	0-0.4-0	12.53	170.00
781.467	0.2	0.0027	0.002	38	0-100-0	12.53	201.00

C05.227.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Interapid lever-type dial test indicators

- Measuring range: up to 1.6 mm.
- Graduation: 0.01 or 0.002 mm.
- Angle between insert and workpiece for true reading: 12°.
- With dovetail joint and clamping stem ø4 mm.
- Hardened steel stylus tip: ø2 mm.
- Insert thread: M1.7 (optional inserts on request).
- Delivery in a plastic case.

The sets consist of:
– dial test indicator,
– rectangular holder with clamp,
– reducing sleeve,
– swivel holder,
– key,
– case.



781.520



781.524



781.526

Item No.	Measuring range/mm	Accuracy mm	Graduation mm	Dial ø/mm	Scale numbering	Insert length/mm	Price EUR	Item No.	Price EUR
Horizontal:								**In a set:**	
781.520	1.6	0.023	0.01	37.5	0-40-0	16.5	314.00	781.526	435.00
781.521	1.6	0.023	0.01	30	0-40-0	16.5	313.00	781.527	430.00
781.522	0.4	0.010	0.002	37.5	0-10-0	15.2	381.00	781.528	503.00
781.523	0.4	0.010	0.002	30	0-10-0	15.2	381.00	781.529	503.00
Perpendicular:									
781.524	1.6	0.023	0.01	37.5	0-40-0	16.5	353.00		
781.525	1.6	0.023	0.01	30	0-40-0	16.5	353.00		

C05.226.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Käfer lever-type dial test indicators

Käfer lever-type dial test indicators have a very high accuracy because of the ruby ball bearing. The direction of the rotation is independent of the measuring direction. Equipped with three dovetail mountings. Are standard delivered with a clamping stem ø 8 mm.

- Measuring range: up to 0.8 mm.
- Graduation: 0.01 or 0.002 mm.
- With dovetail joint and clamping stem ø 8 mm.
- Rotatable dial.
- Tungsten carbide stylus tip: ø 2 mm.
- Insert thread: M1.6 (optional inserts on request).
- 240° adjustable measuring insert.
- Ruby ball bearing.
- DIN 2270.
- Delivery in a plastic case with a key.
- Various different models available.


852.361


852.362


852.363

Item No.	Measuring range/mm	Graduation mm	Dial ø/mm	Scale numbering	Insert length/mm	Price EUR
852.361	0.8	0.01	32	0-40-0	12	87.00
852.362	0.5	0.01	32	0-25-0	35	118.00
852.363	0.2	0.002	40	0-100-0	12	108.00

Käfer saw tooth indicator

By placing the indicator on the saw blade you can easily measure the flatness of the blade, enabling you to saw very precisely. With the indicator you can also measure the height difference between the saw blade and the tooth. This principal of differential measuring of thickness or heights is not only suited for saw blades, but has many other applications.

Because the indicator has a two-sided read-out, it is usable for left- as well as right-handers.

- Measuring range: 0-2 mm.
- Graduation: 0.05 mm.
- Rotatable dial.
- Adjustable tolerance marker.



Item No.	Description	Price EUR
852.364	Saw tooth indicator	74.00

C05.228.EN.20230516

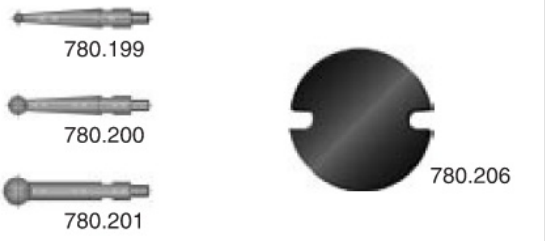
TESA dial test indicator accessories

Item No.		Description	Price EUR
780.171	①	Fixing shaft ø4 x 12 mm	29.00
780.172	②	Fixing shaft ø8 x 12 mm	17.50
780.173	③	Cylindrical fixing shaft ø8 x 80 mm, clamping shaft ø5.6 mm	100.00
780.175	④	Swivelling holder ø8 x 25 mm	56.00
780.176	⑤	Swivelling holder ø8 x 90 mm	61.00
780.177	⑥	Angle holder ø8 x 25 mm, clamping shaft ø8 mm	76.00
780.178	⑦	Centering support ø8 x 25 mm, clamping shaft ø4 mm	134.00
780.208	⑧	Double fixing clamp ø5.6/ø9.5 mm, with dovetail clamp	29.00
782.787	⑨	Swivelling holder ø8 x 125 mm, with fine adjustment	217.00
782.590	⑩	Fixing shaft ø6 x 12 mm	33.00
855.600	⑪	Fixing shaft 9 x 11 x 106 mm complete with dovetail clamp and clamping shaft ø6 mm	27.20



Measuring inserts for lever-type dial test indicators

Inserts for TESA lever-type dial test indicators, with tungsten carbide* tip and thread M1.4



Item No.	Length/mm	ø/mm	Price EUR
780.199	12.53	1	13.00
780.200	12.53	2	13.50
780.201	12.53	3	15.50
780.202	36.53	1	32.00
780.203	36.53	2	31.00
780.204	36.53	3	33.00
780.206	Key		2.40

* Also available with ruby tip.

C05.229.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Accessories dial indicators/dial test indicators

Item No.	Description	Price EUR
909.433	Centering support ø 8 x 25 mm, holder ø 4 mm	21.50
909.434	Rectangular fixing shaft 12 x 6 x 76 mm, holder ø 4/ø 8 mm and dovetail clamp	15.00
909.435	Rectangular fixing shaft 12 x 6 x 76 mm, holder ø 6/ø 8 mm and dovetail clamp	15.00
909.436	Rectangular fixing shaft 9 x 9 x 76 mm, holder ø 4/ø 8 mm and dovetail clamp	15.00
909.437	Rectangular fixing shaft 9 x 9 x 76 mm, holder ø 6/ø 8 mm and dovetail clamp	15.00
909.438	Round, swivelling fixing shaft ø 6 x 70 mm, holder with dovetail clamp	15.00
909.439	Round, swivelling fixing shaft ø 8 x 70 mm, holder with dovetail clamp	15.00











Reducer



837.190

Item No.	Diameter	Price EUR
781.819	ø 8 → 4 mm	18.00
837.190	ø 8 → 6 mm	1.20

Center-accessory

Small magnetic dial indicator stand which, in combination with a lever, could also be used as center-accessory to align bores in workpieces. For use in combination with a machine center.

- Permanent magnet ø 25 mm.
- Universal pivot with dovetail clamp.
- Fine adjustment.
- Cylindrical support ø 10 mm for insert in the collet chuck of a machine center.





Item No.	Description	Price EUR
910.341	Center-accessory	22.90
960.490	Cylindrical support	21.60

960.490

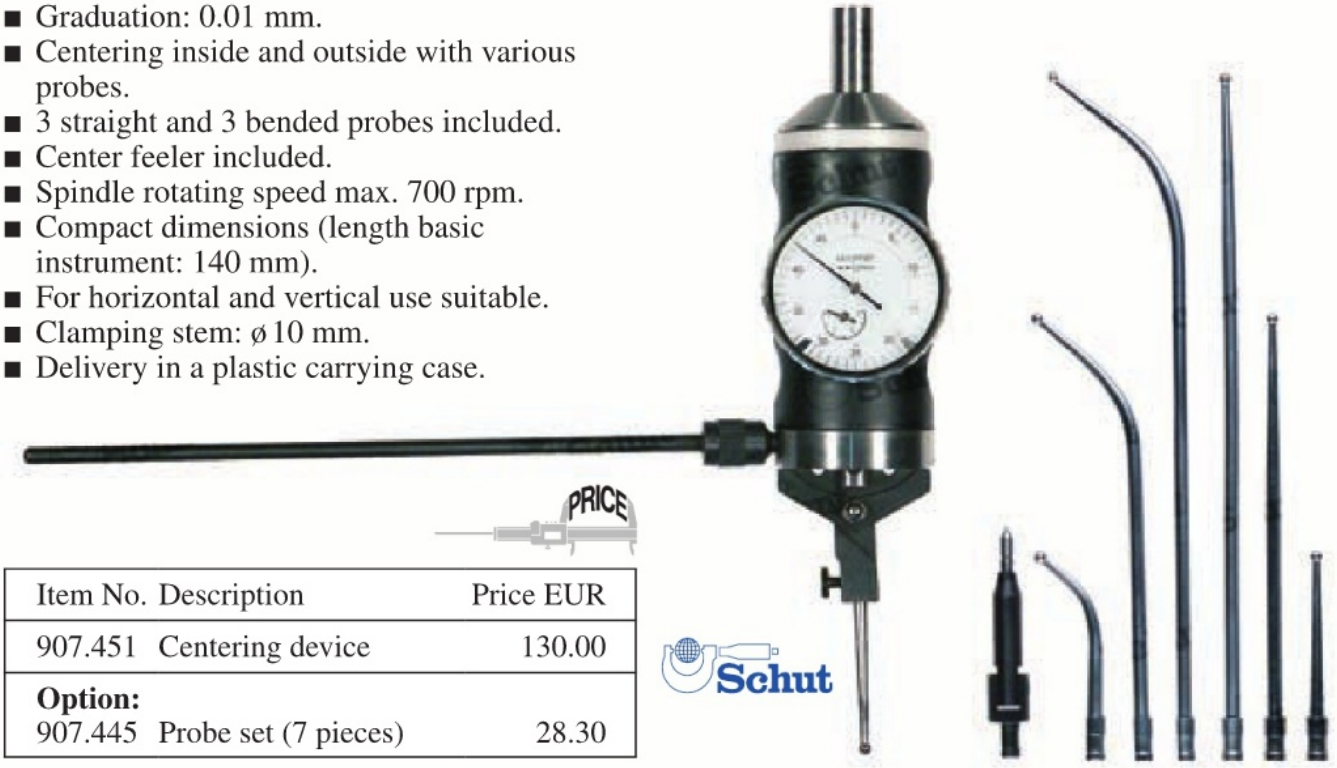
C05.315.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Centering device

Convenient tool to find and set up the position of a workpiece on vertical and horizontal machines. It can also be used to determine the position of a workpiece when the spindle is rotated by hand or automatic. Easy read-out from stationary dial indicator. Instrument with compact dimensions.

- Max. range of use: 300 mm.
- Scale read-out per rotation: 0 - 3 mm.
- Graduation: 0.01 mm.
- Centering inside and outside with various probes.
- 3 straight and 3 bended probes included.
- Center feeler included.
- Spindle rotating speed max. 700 rpm.
- Compact dimensions (length basic instrument: 140 mm).
- For horizontal and vertical use suitable.
- Clamping stem: ø 10 mm.
- Delivery in a plastic carrying case.



PRICE

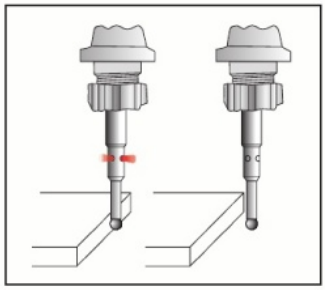
Item No.	Description	Price EUR
907.451	Centering device	130.00
Option:		
907.445	Probe set (7 pieces)	28.30

Edge finders

Edge finders for both stationary and rotating use. As soon as the workpiece is touched by the ball-probe the all around visible LED will light up due to galvanic contact. The ballprobe is held in place by a spring. When the pressure on the tip becomes too large the ball wil flip away sideways. The edge finders are also available with additional sound signal for extra working comfort.

- Concentricity: <0.01 mm.
- Diameter ballprobe: 10 mm.
- Power supply:
  907.456/460: 2 batteries type V357,
  907.454/458: 1 battery type 23A.

PRICE



907.458

907.456



Item No.	Clamping stem ø/mm	Length mm	Price EUR
907.454	20	162	53.00
907.456	20	100	47.00
With sound signal:			
907.458	20	162	68.00
907.460	20	100	58.00
Options:			
836.535	Spare battery (2 needed)		0.80
497.931	Spare battery		1.20

C05.312.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

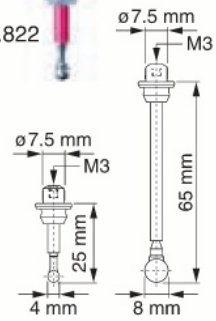
3D probes for centering and measuring

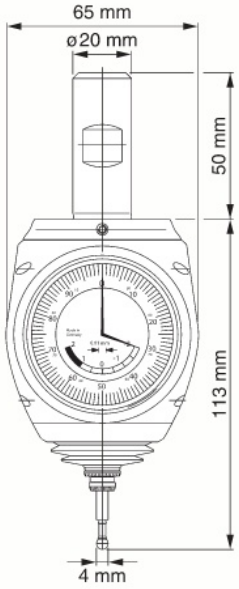
For easy and with high accurate setting the reference point of workpiece in all three axes (X, Y and Z), vertically and horizontally.

- Measuring range: max. ±2 mm (rupture point in probe).
- Analog: graduation 0.01 mm, digital: resolution 0.001 mm.
- Clamping stem: ø20 mm.
- Insert length 25 mm, stylus tip ø4 mm (insert length 65 mm and diameter 8 mm optional).
- mm/inch conversion (only 853.822).
- Digit height: 8.5 mm (only 853.822).
- Isolation between insert and insert thread; for use on all machining centres and EDM machines.
- Insert thread: M3.
- Protection: analog: IP67, digital: IP64.
- Delivery with a manufacturer measuring report.









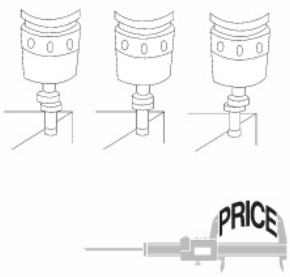
Item No.	Description	Accuracy mm	Repeatability mm	Price EUR
853.821	Analog 3D probe	±0.01	0.01	348.00
853.822	Digital 3D probe	±0.005	0.001	610.00
Options:				
495.157	Spare battery			0.40
853.823	Spare insert 25 mm, tip diameter 4 mm			29.40
853.824	Spare insert 65 mm, tip diameter 8 mm			48.00

Edge finders

Rotating edge finders for accurate edge location.

- Resolution: 0.005 mm.
- Repeatability: 0.005 mm.
- Range of use: 400 - 600 rpm.
- Hardness TiN measuring face: 2200 HV.





Item No.	Clamping stem ø/mm	Probe ø/mm	Material (measuring face)	Price EUR
909.360	8	10	steel	18.90
909.361	10	10	steel	18.90
909.362	8	4 and 10	steel	20.40
909.363	10	4 and 10	steel	20.40
909.364	6	6	steel	20.40
909.365	10	10	steel + ceramic	59.00
909.366	10	10	steel + TiN	34.10
909.367	10	4 and 10	steel + TiN	34.10
Options:				
909.368	Spring for 909.360/362			2.30
909.369	Spring for 909.364			2.80
909.359	Spring for 909.365			3.20
909.349	Spring for 909.361/363/366/367			3.20

C05.317.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Z-axis setting gauge

For easy pre-setting of the Z-axis with tools, whether or not in combination with parallel blocks to set a specific height. As soon as the tool touches the setting gauge (with floating top) the built-in red LED illumination will light up. After this the axis will move in opposite direction until the lamp turns off, this is the turning point, and so the setting gauge, to determine the accuracy.

- Repeatability: 0.01 mm.
- With magnetic base.
- Galvanic contact principle.



Item No.	Description	Price EUR
908.804	Z-axis setting gauge	181.00
Option:		
498.823	Spare battery (2 needed)	2.40

- Dimensions: ø 54 x 50 mm (precise height to determine with external measuring instrument).
- Weight: 450 g.
- Power supply: 2 batteries type V389.



Digital Z-axis setting gauge

For easy pre-setting of the Z-axis with tools, whether or not in combination with parallel blocks to set a specific height.

- Graduation: 0.01 mm.
- Repeatability: 0.01 mm.
- With magnetic base.
- mm/inch conversion.



- Automatic switch-off.
- Height: 50 mm (precise height to determine with external measuring instrument).
- Weight: 377 g.
- Power supply: 1 battery type V357.
- Delivery with reference pin for insert in tool holder.

Item No.	Description	Price EUR
910.169	Z-axis setting gauge	132.00
Option:		
836.535	Spare battery	0.80

Z-axis setting gauge

For easy pre-setting of the Z-axis with tools, whether or not in combination with parallel blocks to set a specific height.

- Graduation: 0.01 mm.
- Repeatability: 0.02 mm.
- With magnetic base.
- Diameter dial indicator: ø 35 mm.



- Height: 50 mm (precise height to determine with external measuring instrument).
- Weight: 1013 g.
- Delivery with reference pin for insert in tool holder.



Item No.	Description	Price EUR
909.460	Z-axis setting gauge	123.00

C05.324.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Tool presetters

Cost effective solution as an additional setup directly next to your machine, for setting up and accurately measuring length and diameter of milling, turning and drilling tools. Increase your machine up-time through rapid manual movement with release/hook-up button and fine adjustment using the hand wheel (only 837.928/916).

- Resolution: 0.01 mm.
- mm/inch conversion.
- RS232C data output.
- On/off switch.
- Preset.
- Interchangeable rotating chuck.
- Delivery incl. rotating chuck ISO 40.
- Conforms to factory standard.
- Delivery with a manufacturer measuring report.
- Power supply: 2 batteries type CR2032.
- Various models with extended functionality available on request.



Item No.	Measuring range/mm X-axis	Z-axis	Dimensions *l* x *w* x *h*/mm	Weight kg	Price EUR
Without fine adjustment:					
837.929	160 (ø 320)	320	420 x 150 x 755	20	2,880.00
With hand wheel for fine adjustment:					
837.928	160 (ø 320)	320	584 x 150 x 520	25	3,950.00
837.916	260 (ø 520)	520	684 x 150 x 848	30	4,850.00

Options

Item No.	Type	Price EUR
Rotating chuck:		
837.930	ISO 30	366.00
837.917	ISO 40	366.00
837.931	ISO 45	366.00
837.932	ISO 50	366.00
837.933	HSK 40	366.00
837.934	HSK 50	366.00
837.935	HSK 63	366.00
837.936	VDI 40	366.00
837.937	DLBH-SKF 63	366.00
ISO reductions:		
837.938	50 - 45	310.00
837.939	50 - 40	310.00
837.940	50 - 30	310.00
837.941	40 - 30	310.00
837.942	50HSK40	379.00
837.943	50HSK50	379.00
837.944	50HSK63	379.00
Spare battery:		
495.157	CR2032	0.40

C04.313.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Electronic probe and read-out unit

Inductive, absolute electronic probe for precision measurements. The measured value is displayed both digitally and digital-analogous. The 2-axes model of the read-out unit has an addition function for the probes.

Electronic probe
- Measuring range: ±1 mm.
- Resolution: 0.1 µm.
- Accuracy: ±3.5 µm.
- Measuring force: 1.2 N.
- Clamping stem: ø8 mm.

Digital read-out units
- Measuring range: 2 mm.
- Resolution: 0.1 µm.
- Digital-analogous graduation: 100/20/10/2/1/0.2/0.1 µm. Range: ±20x graduation.
- µm/inch conversion.
- ABS/INC switchable.
- On/off switch.
- Reset/preset.
- Hold function.
- Addition function: ±A±B (only 907.858).
- Adjustable tolerance limits.
- Power supply: 3 batteries type AA.

PRICE

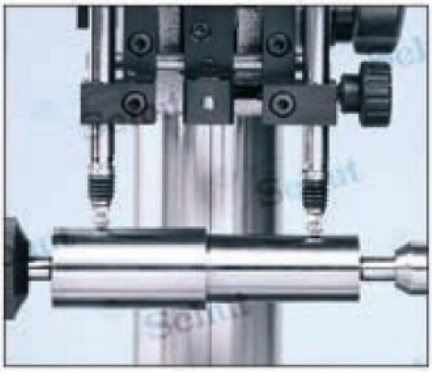
Item No.	Description	Price EUR
907.790	Electronic probe	221.00
907.791	Read-out unit, 1 axis	512.00
907.858	Read-out unit, 2 axes	581.00
Option:		
495.111	Spare battery (3 needed)	0.70



907.791



907.790







C05.313.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

TESA TWIN-T10 display unit

Portable electronic display unit for TESA inductive probe with a very long battery operating time (up to 400 hours). The function keys can be operated separately and the soft rubber casing makes the TWIN-T10 very robust and easy to hold.

The large display with a high contrast and the design of the detailed segmentation of the analog scale (5-fold zoom function) makes it possible to visualize very precise movements and slight variations in form or to detect the reversal point. The TWIN-T10 features max, min, max-min and tolerance functions. The TWIN-T10 is very suitable for the evaluation of straightness, run-out, form or geometry during fine adjustment, alignment or fitting of mechanical parts.

The probe is automatically recognized. In the display 7 different measuring ranges can be set and an automatic setting. With the calibration function it is possible to tune the TWIN-T10 in combination with the connected probe, or with a dummy probe. With the TLC-USB cable or the TLC-BLE transmitter (for wireless data transfer) bidirectional communication is possible with the PC. Digimatic data output is also possible with the TLC-Digimatic cable.

- 7 measuring ranges: ±5 mm, ±2 mm, ±500 µm, ±200 µm, ±50 µm, ±20 µm, ±5 µm and an automatic setting.
- Digital and digital-analog read-out.
- Resolution: 1 µm or 0.1 µm.
- 1 probe input.
- Measure with or without tolerance limits; Go/NoGo indication on display.
- Offset function: within 200 µm directly set to zero.
- Memory for min., max. and max-min. value.
- mm/inch conversion.
- Frequency limit: 10 Hz (relative to the input signal).
- Response time: ≤ 100 ms.
- Calibration with gauge blocks or dummy probe.
- Bidirectional data transfer.
- RS232C data output.
- On/off switch.
- Automatic switch-off.
- Key lock function.
- Reversible measuring direction.
- Operating temperature: 10 to 40°C.
- Autonomy: up to 400 hours.
- Dimensions: 170 x 100 x 38 mm.
- Protection: IP63 (except connections for probe and switch).
- Delivery with 4 batteries type AA.



783.468



Also available in µ-FINDER set 783.548.



Item No.	Description	Price EUR
783.468	TESA TWIN-T10	1,399.00
Options:		
495.111	Spare battery (4 needed)	0.70
780.652	GT31 probe	895.00
780.951	Hand switch 1.8 m	113.00
780.952	Foot switch 1.8 m	328.00
783.301	TESA Link Connector USB	115.00
783.302	TESA Link Connector Digimatic	249.00
783.555	TESA Link Connector Bluetooth	50.00
783.037	DATA-Direct software for data aquisition	426.00
783.038	STAT-Express for statistical analysis	1,038.00
779.982	Back support with centered lug	59.00
779.981	Back support with off-centered lug	98.00

C05.327.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

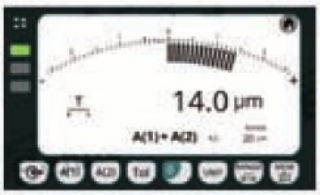
TESA TWIN-T20 display-unit

The TWIN-T20 is an interface which allows the user to read two instruments at the same time. Both digital and analog probes, calipers, dial indicators and many more instruments can be connected. The probes are automatically recognized by the interface, ensuring a reliable measurement. The 7" touchscreen allows the user to display up to two different sensors at the same time, and change all the settings intuitively. The TWIN-T20 is very suitable for use in a laboratory or a production environment. Measurement results can be saved on a PC by means of a USB stick, RS232/USB cable or the TLC-BLE Bluetooth transmitter. TESA provides the software "Data-Viewer" which can be downloaded free of charge.

- 2 probe inputs for half bridge probes.
- 2 USB-A inputs for Tesa measuring instruments (except USB probes).
- 2 USB-A inputs for peripherals such as keyboard, foot switch, memory stick, QR / barcode reader.
- 1 USB-B output for HID keyboard.
- Connection for TESA TLC Bluetooth Transmitter.
- RS232/TESA BUS output.
- Display of 2 probes/measuring instruments simultaneously.
- 4 display options.
- 8 measuring ranges: ±5000 µm - ±5 µm and an automatic setting.
- Resolution: 0.1 µm / 0.00001 in.
- Static and dynamic measurements. 4300 samples per second.
- Storage of min., max., max-min value, average.
- Addition function: ±A ±B.
- Tolerance indication, go, no-go or rework.
- Switching of polarity, choice between internal and external measurements.
- Storage for 2 measurement programs possible.
- Zero point can be set per channel.
- Holder to be mounted on DIN rail.
- Dimensions: 190 x 112 x 119 mm.
- Degree of protection: IP65 (front).
- Delivery with AC adapter, calibration certificate and quick start manual.

NEW











Schut



Item No.	Description	Price EUR
783.637	Tesatronic TWIN-T20	1,589.00
Options:		
780.952	Foot switch 1.8 m	328.00
783.639	Touch pen	135.00
783.301	TESA Link Connector USB	115.00
783.302	TESA Link Connector Digimatic	249.00
783.555	TESA Link Connector Bluetooth	50.00
783.027	Cable USB-Opto RS232 duplex 7	280.00
782.006	RS232C cable 2 m	40.00

C05.334.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Display-unit for measuring probes

Robust, splashproof display-unit, machined from a solid aluminum block, that can be employed in both simple and complex measurements. Both analog and digital display of up to 32 dimensions simultaneously, with (green, yellow, red) tolerance assessment per dimension. The display-unit is universally applicable due to its compatibility with many instrument brands, and powerful due to its ability to display up to 32 dimensions at the same time and it's trigonometrical-, statistical and PLC functions. The device is very suitable for efficient quality control without the need for a PC in the workspace.

- 7" colour touch screen.
- Up to 99 probes can be connected.
- Display up to 32 dimensions.
- Store up to 128 measurement configurations.
- Memory for max, min, difference, average.
- Dynamic or static measurements.
- mm/inch conversion.
- ABS/INC switchable.
- Hold function.
- Statistical functions, e.g. histograms with Gauss curve, Pareto graph, q-q plot, CM, CMK.
- Configuration protection by password.
- Multilingual software, e.g. English, French, German, Dutch.
- Works with instruments such as TESA, Mitutoyo, Magnescale and more.
- Dimensions: 200 x 151.6 x 143 mm.
- Storage of measuring data.
- Delivery with AC adapter.
- Modules can be mounted on a standard DIN rail.

Connections:

– Footswitch.
– USB port for USB stick.
– Ethernet (ASCII/Modbus TCP).
– RS232 (ASCII/Modbus RTU).
– M-Bus input for probes.





Item No.	Type/description	Price EUR
857.880	Display-unit	
Options:		
857.806	Module for 4 Digimatic instruments	
857.881	Module for 8 TESA probes	
857.883	Module for 4 Magnescale probes	
857.884*	Power module	
348.287	Connecting cable display-unit/probe module (3 m)	



* For applications using more than 30 analog TESA probes, or 4 Magnescale probes on 1 display-unit.

Modules for various instruments from other brands available on request.

C05.319.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

TESA analog and digital probes

- Measuring range: ±1.5, ±2 or ±5 mm.
- Protection: IP65.
- Other models, ranges and voltages available on request.
- Also available wireless probes or as a model with detachable cable.



TESA analog DC probes

Probes that produce a linear voltage proportional to displacement that can be connected to AD converters in a PC or to PLCs and X-t plotters.

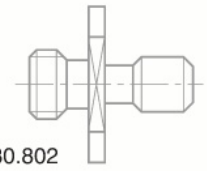
The probe consists of two parts that are connected by a cable (2 m):
a. a conventional analog probe (diameter 8 mm),
b. the electronics module that converts the signal to DC.

- Accuracy: from $(0.2+3.5L^2)$ µm (L in mm).
- Signal output: 782.977/978: ±2 Vdc, 782.979/980: ±5 Vdc.
- Power supply: ±15 Vdc.

TESA digital USB probes

USB probes are easy to connect, using plug & play and without using interface boards. High accuracy guaranteed within the complete measuring range.

- Compatible with software Data-Direct, Stat-Express and Data-Viewer.
- Simple link with for example Excel files.



780.802

Item No.	Type	Measuring range/mm	Price EUR
Analog DC probes:			
782.977	GTL21DC	±2	843.00
782.978	GTL22DC	±2	858.00
782.979	GT61DC	±5	997.00
782.980	GT62DC	±5	1,020.00
Digital USB probes:			
783.097	GTL21 USB	±2	561.00
783.098	GTL22 USB	±2	595.00
783.226	GTL222 USB	±1.5	708.00
783.099	GT61 USB	±5	722.00
783.100	GT62 USB	±5	736.00
Option:			
780.802*	Air tube connector, M4 thread for tube ø4.7/ø2 mm		24.00

* Also other models available.

Type	Protection	Measuring force/N	Repeatability µm	Accuracy µm (L in mm)	Max. travel/mm	Cable exit	Probe movement
GTL21DC	IP65	0.63	0.1	$0.2+3.5L^2$	4.3	axial	spring, extend
GTL22DC	IP65	0.63	0.1	$0.2+3.5L^2$	4.3	square	vacuum, retract
GT61DC	IP65	0.9	0.1	$1+4L$	10.3	axial	spring, extend
GT62DC	IP65	0.9	0.1	$1+4L$	10.3	square	vacuum, retract
GTL21 USB	IP65	0.63	0.1	$0.4+2.4L^2$	4.3	axial	spring, extend
GTL22 USB	IP65	0.63	0.1	$0.4+2.4L^2$	4.3	square	vacuum, retract
GTL222 USB	IP65	1.2	0.1	$0.4+2.4L^2$	3.1	square	air pressure
GT61 USB	IP65	0.9	0.24	$1+4L$	10.3	axial	spring, extend
GT62 USB	IP65	0.9	0.24	$1+4L$	10.3	square	vacuum, retract

C05.322.EN.20230516

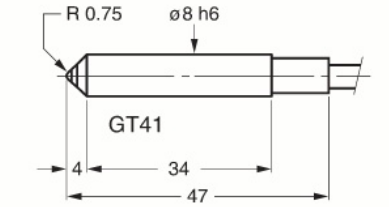
© 2023, Schut Geometrische Meettechniek bv

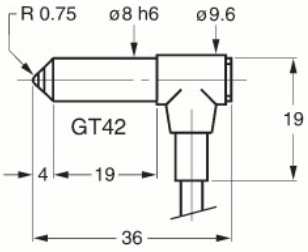
TESA analog probes

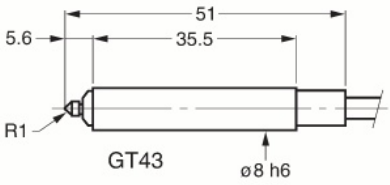
For years, TESA measuring probes have been used in both complex and simple measuring systems. The top quality and absolute reliability of these probes is reason enough to use TESA probes again and again. The most popular half-bridge probes, delivered calibrated, are noted in the following table. For more information, also on LVDT probes, please refer to the comprehensive TESA catalog.

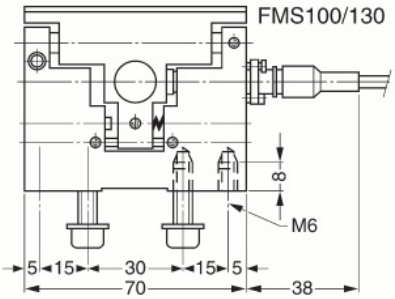
- Sensitivity: 73.75 mV/V/mm (GT61 and GT62: 29.5 mV/V/mm).

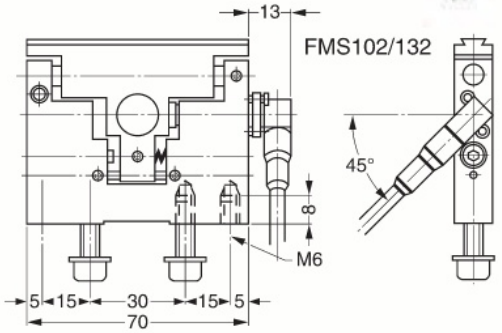


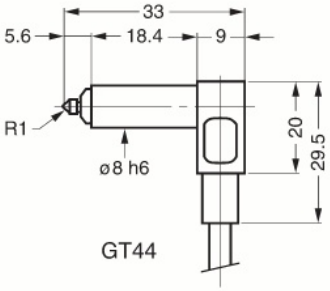


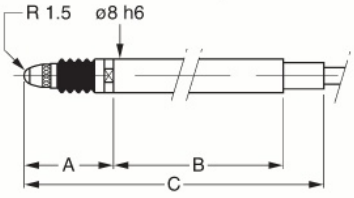




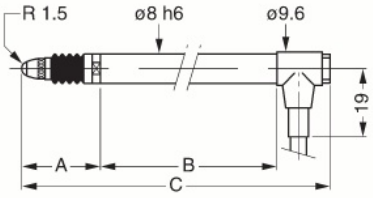




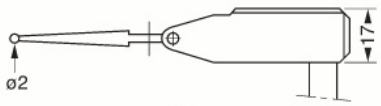


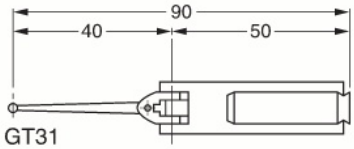


GT21(HP)/GT61



GT22(2)(HP)/GT62(2)





GT31

Item No.	Type	Measuring range/mm	Dimensions/mm A	B	C	Price EUR
780.654	GT21	±1	20.5	61.5	92	354.00
780.687	GT21HP	±0.2	20.5	61.5	92	758.00
780.662	GT22	±1	20.5	47	81.5	370.00
780.673	GT22HP	±0.2	20.5	47	81.5	776.00
780.692	GT61	±5	29.5	81	120	560.00
780.693	GT62	±5	29.5	67.2	110.7	574.00
781.945	GT622	±5	29.5	67.2	110.7	636.00
780.667	GT41	±0.3	–	–	–	563.00
780.668	GT42	±0.3	–	–	–	586.00
780.686	GT43	±1	–	–	–	500.00
780.670	GT44	±1	–	–	–	504.00
780.652	GT31	±0.3	–	–	–	895.00
780.672	FMS100	±2	–	–	–	798.00
780.679	FMS102	±2	–	–	–	900.00
781.946	FMS130	±2.9	–	–	–	912.00
781.947	FMS132	±2.9	–	–	–	1,007.00
782.328	Set (10 pcs.) GT21					3,186.00
782.329	Set (10 pcs.) GT22					3,325.00
Options:						
783.225	DIN/USB adapter for analog probes with measuring range ±2 mm					339.00
783.284	DIN/USB adapter for analog probes with measuring range ±5 mm					339.00

C05.347.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

TESA analog probes (continued)

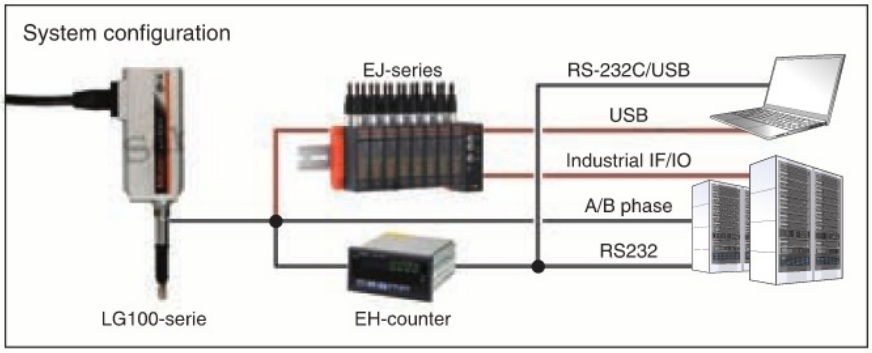
Type	IEC 60529	Measuring force/N	Repeatability µm	Maximum inaccuracy/µm	Max. travel/mm	Cable exit	Probe movement
GT21	IP65	0.63	0.01	0.2 + $3L^3$	4.3	axial	spring, extend
GT21HP	IP64	0.63	0.01	0.07 + 0.4L	4.3	axial	spring, extend
GT22	IP65	0.63	0.01	0.2 + $3L^3$	4.3	square	vacuum, retract
GT22HP	IP64	0.63	0.01	0.07 + 0.4L	4.3	square	vacuum, retract
GT61	IP65	0.9	0.05	1 + 4L	10.3	axial	spring, extend
GT62	IP65	0.9	0.05	1 + 4L	10.3	square	vacuum, retract
612-A[1]	IP50	1.0	0.05	1 + 4L	10.3	axial	air pressure
GT622	IP65	2.0	0.05	1 + 4L	10.3	square	1.1 bar, extend
GT41	IP65	0.63	0.01	0.2 + $5L^2$	0.7	axial	spring, extend
GT42	IP65	0.63	0.01	0.2 + $5L^2$	0.7	square	vacuum, retract
GT43	IP65	0.4	0.1	0.2 + $5L^2$	2.1	axial	spring, extend
GT44	IP65	0.4	0.1	0.2 + $5L^2$	2.1	square	vacuum, retract
GT31	IP40	0.1	0.1	0.2 + $50L^2$	0.7	square	–
FMS100	IP50	2.0	0.5	0.2 + $3L^3$	5.8	parallel	air pressure
FMS102	IP50	2.0	0.5	0.2 + $3L^3$	5.8	square	air pressure
FMS130	IP50	2.0	0.5	0.2 + $3L^3$	5.8	parallel	air pressure
FMS132	IP50	2.0	0.5	0.2 + $3L^3$	5.8	square	air pressure

[1] No bellow.

Mitutoyo digital gauges

The LG100 is a gauge measuring system designed by Mitutoyo to be incorporated into assembly lines and inspection equipment. With the EH-counter or the EJ-counter modules, measurements can be read-out and saved. By combining multiple EJ-counters on a DIN-rail, they can be read-out at the same time with a maximum of 16 gauges. With the EJ-counters it is not only possible to have a USB output, but also an output to Profinet, Ethernet, or CC-link. Through these outputs, the gauges can be connected to a PLC-system. To process, and apply SPC to this data, optional software is available. Gauges with a measuring range up until 50 mm are available with which a resolution of 0.1 µm and a high accuracy are possible.









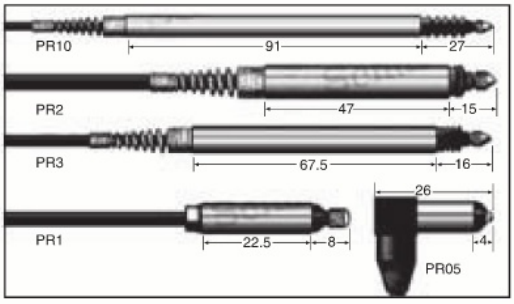
Schut

Ask for the detailed brochure

C05.348.EN.20230516

Analog probes

- Half-bridge probes.
- Measuring range: ±0.25 to ±10 mm.
- Repeatability: <0.15 µm.
- Non-linearity: <0.3%.
- All non-pneumatic probes with cable guide have a cable exit square to probe body.





***Feather Touch* probes**

Probes with a very small measuring force to measure sensitive materials like electronic components and thin-walled glass products.

Item No.	Type	Measuring range/mm	Max. travel mm	Measuring force/N	Total length mm	Price EUR
***Feather Touch* probes with a small measuring force and tungsten carbide probe tip:**						
360.964	PRFC2P	± 1	3	0.18/1.10[1]	75.6	570.00
360.965	PRFC5P	± 2.5	6	0.18/1.10[1]	99.6	598.00
360.966	PRFC10P	± 5	11	0.18/1.10[1]	130.1	414.00
360.962	PRFC5S	± 2.5	6	0.30	96.3	522.00
360.963	PRFC10S	± 5	11	0.30	118.3	573.00
Option:						
360.967	Nylon probe tip					29.50
Probes with regular measuring force[3]:						
360.916	PR05	± 0.25	0.6	0.70	26	536.00
360.917	PR1	± 0.5	1.5	0.70	30.5	498.00
360.911	PR2	± 1	2.5	0.70	62	369.00
360.912	PR2P	± 1	3.5	0.80[2]	67	439.00
360.926	PR101P	± 1	11	0.70[2]	117.5	391.00
360.910	PR10	± 5	11	0.70	83.5	576.00
360.909	PR10P	± 5	11	0.70[2]	87.5	595.00
360.905	PR20	±10	21	0.70	96.5	659.00
360.904	PR20P	±10	21	0.70[2]	118	655.00

Measuring range, measuring force and extended probe length defined at electrical zero.
P = Pneumatic, probe is operated by air pressure.

[1] Air pressure 0.3 bar (nominal) / Air pressure 1.0 bar (nominal).
[2] Air pressure 0.4 bar (nominal).
[3] Protection: IP65.

C05.204.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital absolute measuring probes

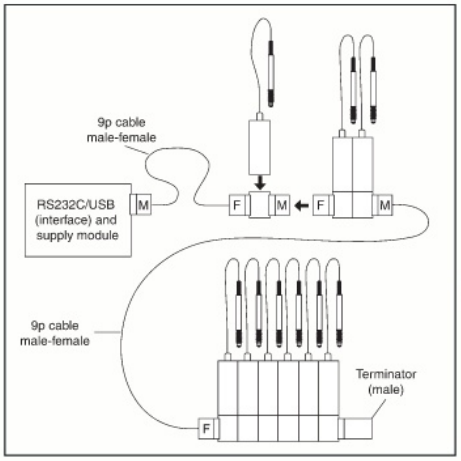
The measuring probe, which replaces the conventional analog probe more and more. These probes, that combine the advantages of the analog and not absolute digital models, are a solution to measuring systems which have to process the measuring data in a PC.

Configuration:

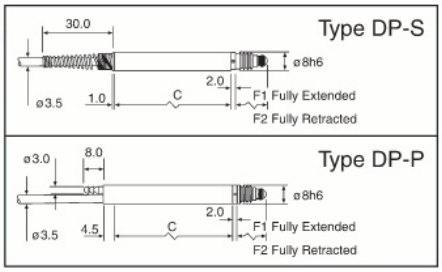
- Probe (clamping shaft 8h6) fixed via a cable (2 m) to the electronics module.
- T-CON connector.
- Cable (standard up to 5 m).
- Supply module (necessary with RS232C module, and with more than five probes on a board or module).
- RS232C/USB module or digital absolute measuring probe board (supports up to 100 probes).

Technical data:

- A maximum of 240 measurements per second.
- Repeatability: <0.15 µm.
- Accuracy:
  DP-2S, DP-2P: ±1+0.05 %K,
  DP-5S, DP-5P: ±1+0.05 %K,
  DP-10S, DP-10P: ±1+0.06 %K,
  in which K is the displacement (in mm).
- Protection: IP65.
- Measuring force S-types: 0.7 N,
  P-types (at 0.4 bar pressure): 0.8 N.
- Also available on request as low measuring force *Feather Touch* models.







Item No.	Type	Measuring range/mm	Max. travel/mm	Probe movement	Dimensions/mm C	F1	F2	Price EUR
360.880	DP-2S	±1	3	spring push	46	13.9	10.9	695.00
360.881	DP-5S	±2.5	6	spring push	65	17.4	11.4	776.00
360.882	DP-10S	±5	11	spring push	89	25.4	14.4	833.00
360.883	DP-2P	±1	3	pneumatic push	52	13.9	10.9	748.00
360.884	DP-5P	±2.5	6	pneumatic push	71	17.4	11.4	805.00
360.885	DP-10P	±5	11	pneumatic push	96	25.4	14.4	861.00
360.852	T-CON connector (has to be ordered separately per probe)							50.00
360.835	Supply module (required when using a RS232C module and when connecting more than five probes to a board or module, excl. power cable)							569.00
420.300	Power cable							5.20
360.890	Digiprobe PCI board Orbit 3							897.00
360.888	Digiprobe USB module Orbit 3							728.00
348.287	Cable 3 m between electronic module and board/module							17.40
348.288	Cable 5 m between electronic module and board/module							19.80

C05.203.EN.20230516

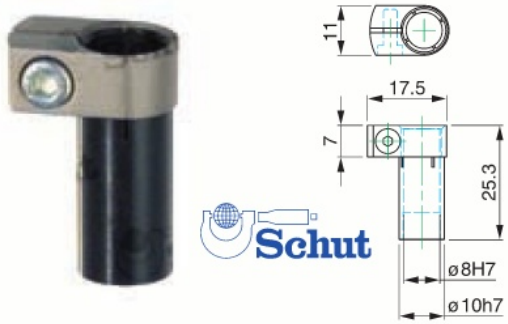
© 2023, Schut Geometrische Meettechniek bv

Clamping bush



Item No.	Description	Price EUR
780.398	Clamping bush VKE	9.60
780.397	Clamping screw VKD	3.60

Clamping bush

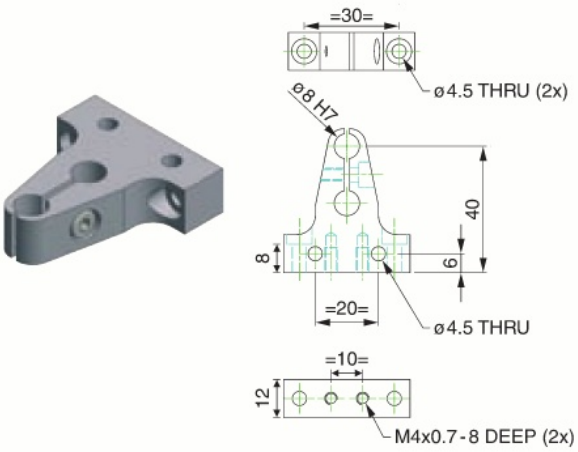


Item No.	Description	Price EUR
906.497	Clamping bush	26.10

Probe holder

Probe holder for for surfacemounting.

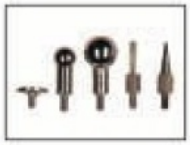
- Clamping shaft: ø 8 mm.
- For attaching with M4 bolts.
- Material: anodized aluminum.



Item No.	Description	Price EUR
993.054	Probe holder	50.00

Inserts

Many inserts with thread M2.5 are available. See the dial indicator accessories section for more information.



Retraction levers

Universal retraction levers, bottom or top mounted, compatible with a wide range of probes and dial indicators. You can find various models in the dial indicator accessories section.





Retraction device DZ801

Pneumatic retraction device for Magnescale and TESA gauges, with 1 meter hose and air tube connector.

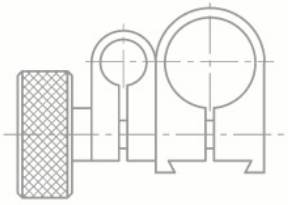


Item No.	Description	Price EUR
344.465	Retraction device	162.00

Clamp collar with dovetail

For clamping TESA GT31 probes and e.g. lever type dial indicators.

- Fastening points: ø 5.6 mm, ø 9.5 mm and with dovetail.



Item No.	Description	Price EUR
780.208	Clamp collar	29.00

C05.316.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

MF measuring fixture system

MF is a universal construction system based on components to quickly and easy build custom measuring fixtures.

The system has been developed by Schut Geometrical Metrology. The parts of MF are made from high quality steel and colored, anodized aluminum.

The system consists of, among other things, base plates, parallel spring elements, mounting bars, probe holders and probes. A stable product positioning is required for accurate measurements and because of the system's sophisticated composition, it is possible to generate a complete measuring system with only a few parts. Ideal for repeating measurements.

The components of MF are based on both horizontal support or vertical clamping. The wide range and shapes of probes make the system suitable for e.g. lathed parts but also for (more complicated) milling parts. For these various applications some complete sets are available, as a starter-set or for specific applications. Besides this, the variety of individual components and the ease of use enable almost endless possibilities of applying and incorporating MF in other measuring fixtures that may be custom build or composed of other construction systems.

All individual components are available separately, increasing flexibility of use. Schut Geometrical Metrology has incorporated MF many times in custom built measuring systems (see elsewhere in this catalogue).

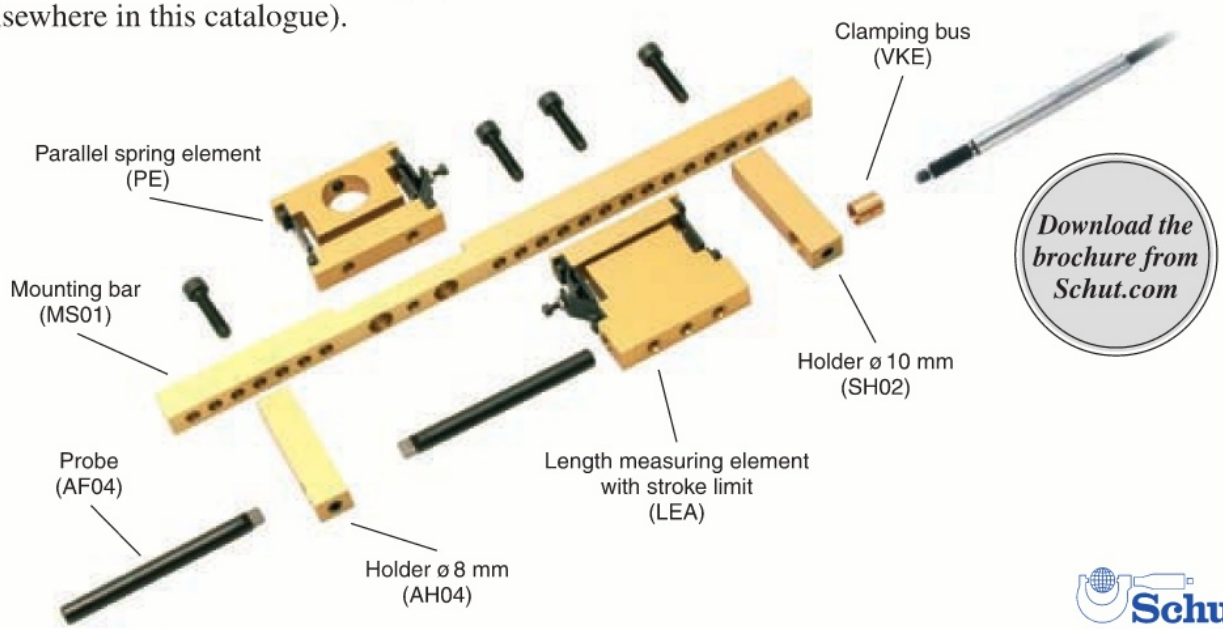
MF's high quality and low price make an ideal addition to existing measuring systems and can be applied in production plants.

The universal properties of MF result in a highly flexible construction system. The use of internationally applied units of fit for e.g. dial indicators and electronic probes make the system's components widely applicable. With just some base elements it is very easy to create some individual measuring points on e.g. production machines.









Download the brochure from Schut.com

Schut

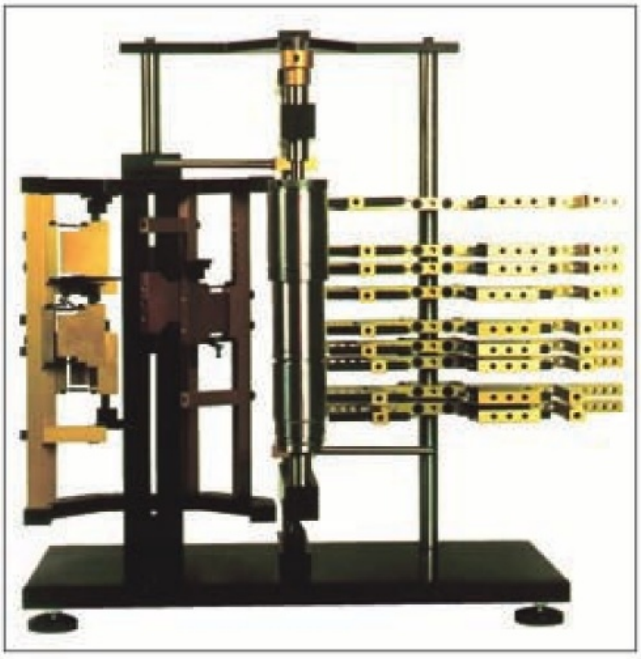
C22.201.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

MF measuring fixture system (continued)

For a quick start MF is also available in standard sets for a complete and quick solution for both horizontal support or vertical clamping.

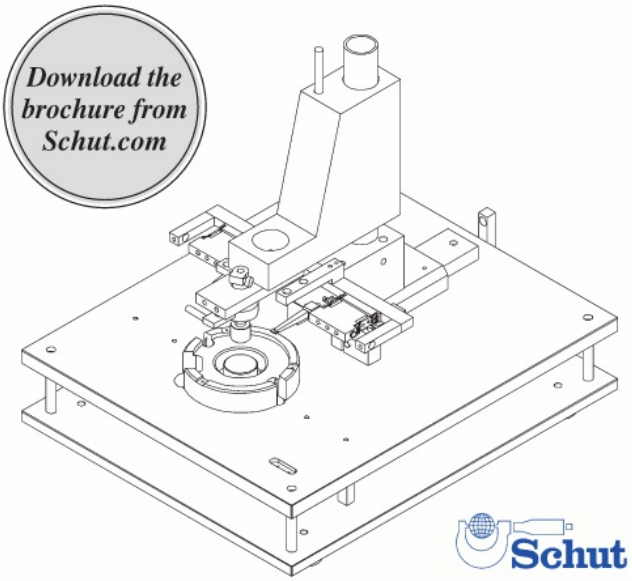
One of the big advantages of MF is the ease and flexibility to create a stable measuring fixture especially suitable for repeating measurements with only very little effort and investments. To make the start with MF as easy as possible some standard sets have been composed that can realize the most occuring measuring fixtures.



These sets consist of a composition of standard MF components, so it can be easily extended to your liking for specific applications. All in this catalogue depicted measuring fixtures are just a few of the many possibilities of MF.







The easy assembly and modular setup make MF especially suitable for application in tailor-made and designed measuring systems.

For many years now Schut has been developing tailor-made solutions in measuring systems for its customers nationwide and abroad. On many occasions MF parts have been incorporated in these systems. We would be pleased to inform you about the possibilities to have your measuring system custom built, updated or extended.



C22.301.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

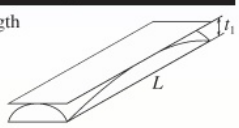
Stands / Bench centers / Surface plates



Flatness tolerances according DIN 876

Class	Flatness t_1 (µm)
00	$2+L/500$
0	$4+L/250$
1	$10+L/100$
2	$20+L/50$
3	$40+L/25$

L = length in mm



C06.000.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Dial indicator stands

- With dovetail joint (only 908.958/972).
- With fine adjustment (except 908.958/974).
- On/off switchable magnetic base with V-groove, except 908.973 (*flexform* base with locking mechanism and permanent magnetic force) and 908.974 (flat on/off switchable magnetic base).
- Various bases available.


908.958


908.974


908.950/951


908.946


908.973


908.952


908.972

Item No.	Clamping shaft/mm	Column mm	Arm mm	Desc. of base	Dimensions *l* x *w* x *h*/mm	Magn. force[1]/N	Thread of base	Price EUR
908.950	ø4/ø8	ø12 x 176	ø10 x 150	V-groove	58 x 50 x 55	600 (S)	M8 x 1.25	19.40
908.951	ø4/ø8	ø12 x 176	ø10 x 150	V-groove	60 x 50 x 55	800 (S)	M8 x 1.25	21.30
908.952	ø6/ø8	ø20 x 350	2 arms: ø12 x 220 ø10 x 150	V-groove	74 x 50 x 55	1000 (S)	M10 x 1.5	57.00
908.958	ø8	ø 8 x 130	ø 8 x 130	V-groove	36 x 30 x 35	400 (S)	M5 x 0.8	25.60
908.972	ø8	ø12 x 176	ø10 x 210	V-groove	60 x 50 x 55	800 (S)	M8 x 1.25	24.50
908.973	ø4/ø8	ø12 x 176	ø10 x 150	*flexform*	75 x 46 x 55	400 (P)	M8 x 1.25	45.00
908.974	ø6	ø 7 x 50		flat	30 x 30 x 30	170 (S)	M5 x 0.8	28.20
908.946[2]	ø8	ø12 x 190	ø10 x 160	V-groove	54 x 40 x 47	800 (S)	M8 x 1.25	113.00

[1] S = switchable magnet; P = permanent magnetic force.
[2] V-groove on 3 sides.

C06.303.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Dial indicator stands

- Clamping shaft ø 8 mm for dial indicators and probes (except 910.341: ø 6 mm), and dovetail joint for lever-type dial test indicators (908.957 without dovetail joint).
- With fine adjustment (except 908.962/964/957).
- Arm with mechanical central clamping device (908.954/955: hydraulic).
- On/off switchable magnetic base with V-groove, except 908.964 and 910.341 (permanent magnetic force), 908.961 (vacuum base) and 908.975 (*flexform* base with locking mechanism and permanent magnetic force).
- Various bases available.





Item No.	Clamping	Arm length[1]/mm	Description of base	Dimensions *l* x *w* x *h*/mm	Magnetic force[2]/N	Thread of base	Price EUR
908.953	mechanical	320	V-groove	58 x 50 x 55	600 (S)	M8 x 1.25	35.50
908.959	mechanical	340	V-groove	60 x 50 x 55	800 (S)	M8 x 1.25	38.00
908.960	mechanical	285	V-groove	60 x 50 x 55	800 (S)	M8 x 1.25	43.00
908.954	hydraulic	380	V-groove	58 x 50 x 55	600 (S)	M8 x 1.25	68.00
908.955	hydraulic	380	V-groove	60 x 50 x 55	800 (S)	M8 x 1.25	72.00
908.962	mechanical	150	V-groove	36 x 30 x 35	400 (S)	M5 x 0.8	39.90
908.964	mechanical	65	cylinder	ø 30 x 25	170 (P)	M8 x 1.25	26.90
910.341	mechanical	60	cylinder	ø 25 x 25	100 (P)	M5 x 0.8	22.90
908.975	mechanical	280	*flexform*	75 x 46 x 55	400 (P)	M8 x 1.25	51.00
908.961	mechanical	280	vacuum base	ø 90 x 25		M8 x 1.25	48.00
908.956	mechanical	360	V-groove	60 x 50 x 55	800 (S)	M8 x 1.25	38.80
908.957	mechanical	320	V-groove	60 x 50 x 55	800 (S)	M8 x 1.25	39.80

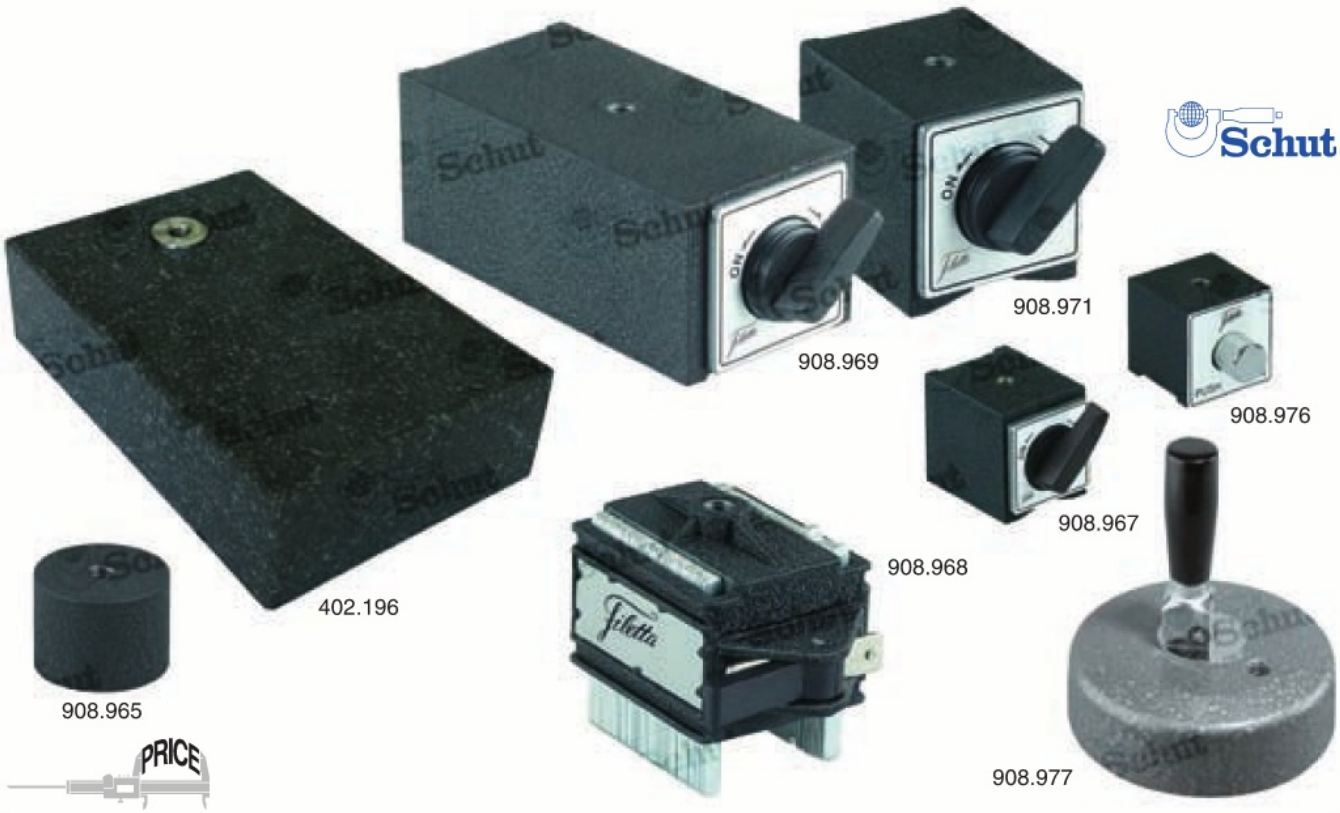
[1] The outstretched length between base and clamping shaft.
[2] S = switchable magnet; P = permanent magnetic force.

C06.304.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Bases for dial indicator stands

A solid base is essential for accurate measurements. The dial indicator arms can be mounted on a strong magnetic or vacuum base.

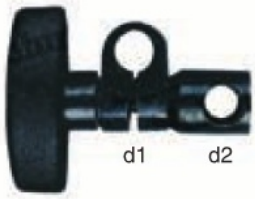


Item No.	Description	Dimensions *l* x *w* x *h*/mm	Magnetic force*/N	Thread	Price EUR
908.971	V-groove	60 x 50 x 55	800 (S)	M8 x 1.25	18.60
908.970	V-groove	74 x 50 x 55	1000 (S)	M8 x 1.25	26.30
908.969	flat base	118 x 50 x 52	1500 (S)	M8 x 1.25	79.00
908.967	V-groove	36 x 30 x 35	400 (S)	M5 x 0.8	20.50
908.976	flat base	30 x 30 x 30	170 (S)	M5 x 0.8	22.60
908.968	*flexform*	75 x 46 x 55	400 (P)	M8 x 1.25	36.20
908.965	cylinder	ø 40 x 30	300 (P)	M8 x 1.25	19.80
908.977	vacuum base	ø 90 x 25		M8 x 1.25	31.50
402.196	granite base	150 x 100 x 40		M8 x 1.25	173.00

* S = switchable magnet; P = permanent magnetic force.

Fixing clamps for dial indicator stands

Item No.	Fixing clamp ø/mm d1	d2	Price EUR
907.443	10	8/4	9.00
907.442	10	8/6	9.00
906.398	12	8/6	8.70
907.440	12	10	9.00
907.444	14	8/6	13.00
906.399	20	12	26.50
907.441	20	14	30.20



C06.305.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Magnetic dial indicator stands

Solid dial indicator stands with on/off switchable magnetic base.

- Clamping shaft: ø6 and ø8 mm.
- Magnetic base with V-groove.
- Magnetic face at the back (except 855.707).


855.701


855.705


855.707

Item No.	Dimensions base *l* x *w* x *h*/mm	Magnetic force/N	Column mm	Arm mm	Thread of base	Price EUR
855.701	58 x 50 x 55	800	ø12 x 176	ø10 x 150	M8	56.00
855.705	73 x 50 x 55	1000	ø20 x 178	ø14 x 165	M8	131.00
855.707	117 x 50 x 55	1300	ø20 x 365	ø14 x 200	M20	228.00

Magnetic dial indicator stands

Solid dial indicator stands with on/off switchable magnetic base.

- Clamping shaft: ø6 and ø8 mm.
- Screw thread base: M8.
- Magnetic base with V-groove.
- Magnetic face at the back.


855.706


855.710

Item No.	Clamping	Dimensions base *l* x *w* x *h*/mm	Magnetic force/N	Arm length* mm	Price EUR
855.706	hydraulic	73 x 50 x 55	1000	335	298.00
855.710	mechanical	58 x 50 x 55	800	335	137.00

* The outstretched length between base and clamping shaft.

C06.204.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Fisso Classic Line dial indicator stands

These dial indicator stands are manufactured according to the classic principle with chrome plated arm parts, joint together with the three hinge points by means of a central mechanic clamping device. Because this is done with one on/off switch control, the stand can be positioned easily and precisely.

- Fine adjustment: with clamping shaft ø 8 mm (for dial indicators and probes) and dovetail joint (for lever-type dial test indicators).
- Dial indicator not included.
- Various bases, fine adjustments and other accessories available; see "Fisso dial indicator stand accessories".

SWISS MADE



Schut





Complete stands (incl. base and fine adjustment)

Item No.	Arm length/mm	Base type*	Magnetic force/N	Price EUR
839.870	130	S2	300	184.00
837.262	200	M	800	229.00
837.290	200	AMO	600	271.00
837.264	200	TM	300	200.00
837.237	200	V	–	276.00
837.245	288	M	800	266.00
837.265	288	SM	1000	281.00
837.238	288	V	–	309.00
837.287	450	SM	1000	455.00
837.266	450	MM	1500	523.00
837.246	630	MM	1500	706.00





* For an extensive description of the base types see "Fisso dial indicator stand accessories".

Item No.	Arm length/mm	Thread of head	Thread of base	Price EUR	Item No.	Price EUR
Separate arm without fine adjustment:					**With fine adjustment:**	
839.871	130	M6	M6	112.00	839.872	144.00
837.283	197	M6	M8	127.00	837.267	159.00
837.284	288	M6	M8	161.00	837.252	192.00
837.285	453	M8	M8	343.00	837.268	366.00
837.286	635	M8	M10 x 1.25	533.00	837.253	548.00

FISSO Swiss Made

C06.206.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Fisso Strato Line and Strato µ-Line dial indicator stands

These dial indicator stands have a modern design with light metal arm parts in one piece, which, together with the three hinge points, are fixated by means of a mechanical clamping device. Because this is done with one on/off switch, the bases can be positioned easily and precisely.

Also available are the small dial indicator stands with an arm length of 130 mm – especially useful for places with confined space.

- Fine adjustment: with clamping shaft ø 8 mm (for dial indicators and probes) and dovetail joint (for lever-type dial test indicators).
- Dial indicator not included.
- Various bases, fine adjustments and other accessories available; see "Fisso dial indicator stand accessories".
- The Strato µ-Line models are equipped with a precision fine adjustment.


837.297

Complete stands (incl. base and fine adjustment)

Item No.	Arm length/mm	Base type[1]	Magnetic force/N	Price EUR
837.297[4]	130	S2	300	197.00
837.270	130	TMS	150	181.00
837.288	130	C[2]	–	147.00
839.455[3]	130	S3	600	391.00
837.242[5]	200	M	800	250.00
837.243	200	TM	300	221.00
837.244	200	AM	600	258.00
837.289	200	AMO	600	269.00
837.239	200	V	–	267.00
839.456[3,5]	200	M	800	427.00
837.240[5]	280	M	800	324.00
837.271[5]	280	SM	1000	342.00
837.241[6]	280	V	–	386.00
837.261[6]	280	G	–	463.00
839.457[3,5]	287	M	800	506.00
839.873[3,6]	287	V	–	568.00
839.874[3,5]	287	SM	1000	524.00
837.230[3]	330	SM	1000	554.00
837.231[3]	330	G	–	675.00

[1] For an extensive description of the base types see "Fisso dial indicator stand accessories".
[2] Long stem, ø 10 x 40 mm, thread M6 (not separately available).
[3] With µ-Line precision fine adjustment (837.204).
[4] Optional available plastic carrying case (C1: 841.580).
[5] Optional available plastic carrying case (C2: 841.581).
[6] Optional available plastic carrying case (C3: 841.582).


841.581


841.582




837.241

Schut


837.288

FISSO
Swiss Made

C06.207.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Fisso Strato Line and Strato µ-Line dial indicator stands (continued)

Item No.	Arm length/mm	Thread of head	Thread of base	Price EUR	Item No.	Price EUR
Separate arm without fine adjustment (Strato Line):					**With fine adjustment (Strato Line):**	
837.281	130	M6	M6	125.00	837.272	157.00
837.282	200	M6	M8	149.00	837.251	180.00
837.247	280	M6	M8	225.00	837.250	253.00
Separate arm without fine adjustment (Strato µ-Line):					**With fine adjustment (µ-Line):**	
839.875	130	M6	M6	145.00	839.878[3]	344.00
839.876	200	M6	M8	157.00	839.879[3]	356.00
839.877	287	M8	M8	240.00	839.880[3]	436.00
837.912	330	M8	M8	271.00	837.232[3]	465.00

Fisso Base Line dial indicator stands

Easy and handy dial indicator stands with high stability and accuracy.

- Fine adjustment: with clamping shaft ø 8 mm (for dial indicators and probes) and dovetail joint (for lever-type dial test indicators).
- Mechanical clamping device.
- Dial indicator not included.

SWISS MADE

FISSO Swiss Made

Schut



837.224

Complete stands (incl. base and fine adjustment)

Item No.	Column mm	Arm mm	Base type*	Magnetic force/N	Price EUR
837.224	ø 10 x 106	ø 8 x 75	S2	300	137.00
837.225	ø 12 x 156	ø 10 x 106	M	750	146.00
837.226	ø 14 x 184	ø 12 x 164	M	750	156.00

* For an extensive description of the base types see “Fisso dial indicator stand accessories”.

C06.315.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Fisso dial indicator stand accessories


837.294


837.275


837.273


837.276


837.194


837.274


837.227


837.280


837.803

Item No.	Type/ description		Magnetic force*/N	Dimensions *l* x *w* x *h*/mm	Thread	Price EUR
Magnetic bases:						
837.294	S2	V-groove	300 (S)	34 x 30 x 35	M6	42.00
837.750	S3	V-groove	600 (S)	40 x 40 x 40	M6	49.00
837.254	M	V-groove	800 (S)	60 x 50 x 55	M8	74.00
837.255	SM	V-groove	1000 (S)	75 x 50 x 55	M8	93.00
837.256	MM	flat	1500 (S)	120 x 60 x 55	M10 x 1.25	164.00
837.275	AM	*anyform*	600 (P)	77 x 48 x 55	M8	79.00
837.291	AMO	*anyform*	600 (S)	91 x 52 x 55	M8	94.00
837.276	TMS	cylinder	150 (P)	ø 30 x 25	M6	24.90
837.257	TM	cylinder	300 (P)	ø 40 x 30	M8	30.90
Other bases:						
837.273	V	vacuum base		ø 88 x 27	M8	139.00
837.274	G	granite base		150 x 120 x 50	M8	219.00
837.194	–	steel base		ø 100 x 20	3x M6	70.00
837.195	–	steel base		ø 100 x 20	M8	70.00
837.196	–	steel base		ø 150 x 20	M6	76.00
837.292	–	steel base		ø 150 x 20	M8	76.00
837.193	–	clamping base		80 x 20 x 50	2x M6	38.90
837.227	–	clamping base		80 x 30 x 50	2x M8	44.00
Adapters for internal thread/external thread:						
837.280	Adapter M6/M8 (hexagonal 13 x 25 mm, CrNi steel)					15.00
837.211	Adapter M8/M6 (hexagonal 13 x 25 mm, CrNi steel)					15.00
837.804	Adapter M8/M10 (ø 20 x 37 mm, steel)					21.90
837.803	Adapter M8/M12 (ø 20 x 40 mm, steel)					21.90

* S = switchable magnet; P = permanent magnetic force.

C06.316.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Fisso dial indicator stand accessories (continued)

Item No.	Thread	Price EUR
Fine adjustments*:		
837.279	M6	38.90
837.260	M8	38.90
Precision fine adjustment (µ-Line)*:		
837.204	M8	214.00
Dial indicator holders*:		
837.192	M6	22.90
837.191	M8	22.90
Reducer:		
837.190	ø8 → 6 mm	1.20

* With clamping shaft ø8 mm and dovetail joint.


837.279


837.204


837.192


837.190


837.221


837.218

837.219

Item No.	Span	Thread	Clamping jaws	Price EUR
Quick clamps:				
837.220	25 mm	M6	steel	71.00
837.228	50 mm	M8	steel	84.00
837.221	75 mm	M8	steel	98.00
Spring quick clamps:				
837.219	15 mm	M6	rubber, 50 mm	60.00
837.218	15 mm	M6	plastic, 21 mm	27.90

For more clamping and positioning possibilities (e.g. for medical applications) please contact our sales department.

Plastic carrying cases for dial indicator stands

Plastic carrying cases with removeable foam inserts for safe storage of Fisso Strato Line and Strato µ-Line dial indicator stands.

- Carrying case C1 has an extra slot for storage of lever-type dial test indicators.
- Carrying case C2 has extra space for storage of dial indicatiors with a dial diameter of ø40 mm and ø60 mm, with a maximum measuring range of 0 - 12.5 mm.


841.581


841.582


841.580

Item No.	Description	Price EUR
841.580	Plastic carrying case C1	27.90
841.581	Plastic carrying case C2	59.00
841.582	Plastic carrying case C3	59.00

C06.317.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Flexible hoses for coolant with magnetic base

- Suitable for cooling on machines in places of the workpiece that are difficult to reach.
- With 1, 2 or 3 flexible hoses.
- Special coupling for supply hose ø 8.5 mm.

Support with magnetic base
- On/off switchable magnetic base with V-groove.
- Magnetic force: 588 N.
- Separate on/off switch for every flexible hose.
- Dimensions base *l* x *w* x *h*:
  906.213: 62 x 51 x 73 mm,
  906.214: 62 x 51 x 74 mm,
  906.215: 69 x 51 x 75 mm.

With round magnetic base
- Magnetic base ø 35 mm, with high adhesive force.
- Metal protection plate under magnetic base.


906.213


906.214


906.215


906.216


906.217


906.218

PRICE

Item No.	Number of flexible hoses	Price EUR
Support with magnetic base:		
906.213	1	38.70
906.214	2	48.00
906.215	3	58.00

PRICE

Item No.	Number of flexible hoses	Price EUR
With round magnetic base:		
906.216	1	18.40
906.217	2	25.20
906.218	3	31.50

LED lamp on magnetic stand

- Total length: 215 mm.
- Magnetic force: 120 N.
- Power supply: 3 batteries type AAA.

PRICE



Item No.	Description	Price EUR
909.607	LED lamp on magnetic stand	29.40
Option:		
497.914	Spare battery (3 needed)	0.80

Schut

C14.213.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Measuring stands

- Clamping shaft: ø 8 mm.
- Transverse arm with fine adjustment.
- Arm length: 150 mm.
- Ground base.
- Base with V-groove (only 857.120).



857.120



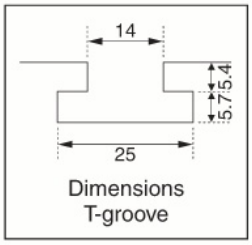
857.121

Item No.	Column ø/mm	Dimensions base/mm	Effective arm length/mm	Price EUR
857.120	16	65 x 40 x 140	250	189.00
857.121	22	60 x 55 x 250	300	295.00

Measuring stand

- Clamping shaft: ø 8 mm.
- Effective arm length: 180 mm.
- Fine adjustment.
- Ground base with V- and T-groove, 250 x 60 x 35 mm.
- Column: ø 16 x 295 mm.
- Arm: ø 16 x 235 mm.
- Mechanical clamping device.
- Dial indicator not included.





Dimensions T-groove

Item No.	Description	Price EUR
856.720	Measuring stand	179.00

C06.209.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Measuring stands

- Clamping shaft: ø 8 mm.
- Transverse arm with fine adjustment.
- Ground base with T-groove.
- Base with V-groove (only 909.376).



906.219

PRICE

Item No.	Column mm	Arm mm	Dimensions base/mm	Price EUR
906.219	ø 14 x 185	ø 12 x 245	220 x 60 x 35	57.00
909.376	ø 16 x 290	ø 16 x 310	260 x 60 x 50	148.00

Measuring stand with spindle adjustment

Measuring stand with clear graduation 0.02 mm on the spindle and a hand wheel for easy adjustment of the height setting.

- Clamping shaft: ø 8 mm.
- Spindle thread pitch: 2 mm.
- Column: ø 35 mm.
- Transverse arm: ø 20 mm.
- Granite measuring table: 260 x 150 x 50 mm, measuring face: 250 x 150 mm, flatness according DIN 876/00.
- Total height: 410 mm.
- Max. measuring height: 160 mm.
- Delivery in a wooden box.



PRICE

Item No.	Description	Price EUR
907.789	Measuring stand	639.00

C06.301.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Measuring stand

Universal measuring stand, also suitable as a control measuring device.

- Clamping shaft ø 8 mm and dovetail joint.
- Fine adjustment.
- Granite measuring table: 150 x 100 x 40 mm, flatness: ≤ 10 µm.
- Base with groove in the center.
- Screw thread base: M8.
- Long, right side face with two mounting bores (thread M5, distance 120 mm).
- Mechanical clamping device.
- Arm length: 300 mm (the outstretched length between base and clamping shaft).
- Delivery in an aluminum carrying case.



PRICE

Item No.	Description	Price EUR
910.436	Measuring stand	192.00

Measuring stand

- Clamping shaft: ø 8 mm.
- Total height: 200 mm.
- Max. measuring height: 90 mm.
- Effective arm length: 80 mm.
- Measuring table: 60 x 68 mm, ground and lapped.
- Dimensions transverse arm: ø 18 x 120 mm.
- Column: ø 22 mm.
- Other dial gauge holders are available on request.





Item No.	Description	Price EUR
857.130	Measuring stand	266.00

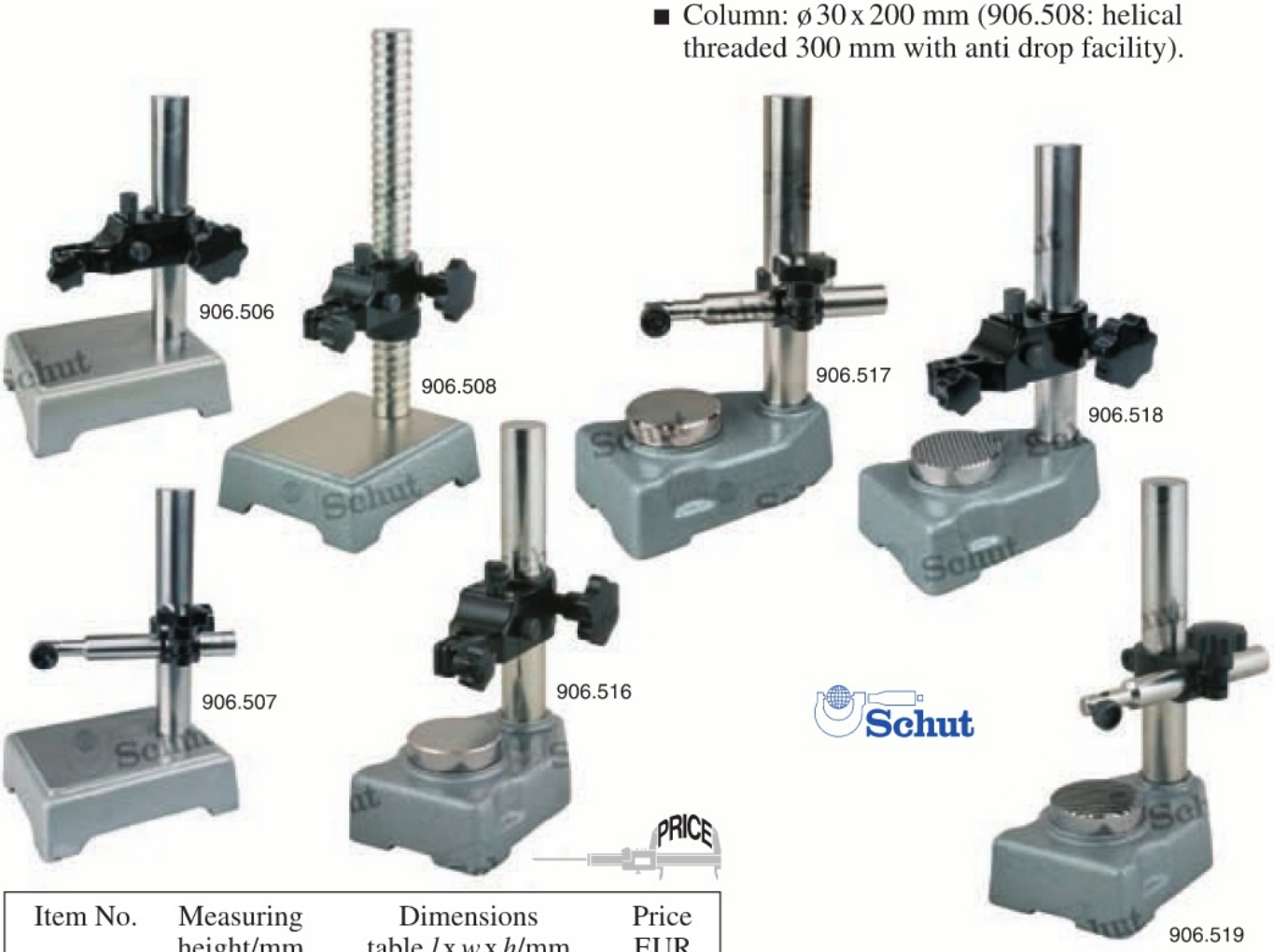
C06.318.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Measuring stands

Universal measuring stands with a cast iron, ground measuring table.

- Clamping shaft: ø 8 mm (optional available clamp with clamping shaft ø 28 mm).
- Fine adjustment: 5 mm (906.506/508/516/518).
- Total height: 250 mm (906.508: 350 mm).
- Max. measuring height: 160 mm (906.508: 260 mm).
- Effective arm length: 68 mm (906.507: max. 105 mm, 906.517/519: max. 95 mm).
- Measuring table: ground, 906.506/507/508: flat anvil/base, 906.516/517: round flat anvil (height anvil: 13.5 mm), 906.518/519: round serrated anvil (height anvil: 13.5 mm).
- Flatness table: ≤ 10 µm.
- Dimensions transverse arm: ø 20 x 150 mm (906.507/517/519).
- Column: ø 30 x 200 mm (906.508: helical threaded 300 mm with anti drop facility).



PRICE

Item No.	Measuring height/mm	Dimensions table *l* x *w* x *h*/mm	Price EUR
906.506	140	140 x 105 x 50	164.00
906.507	160	140 x 105 x 50	137.00
906.508	260	140 x 105 x 50	182.00
906.516	130	ø 60 x 65	164.00
906.517	145	ø 60 x 65	137.00
906.518	130	ø 60 x 65	182.00
906.519	145	ø 60 x 65	137.00
Option:			
999.679	Clamp ø 28 mm		178.00



999.679

C06.310.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Measuring stands

Universal measuring stands with a granite measuring table.

- Clamping shaft: ø 8 mm (optional available clamp with clamping shaft ø 28 mm).
- Fine adjustment: 5 mm (999.680).
- Total height: 240 mm (999.680/681),
  355 mm (999.682/683),
  370 mm (999.684/685).
- Max. measuring height: 260 mm (999.682/683/684/685).
- Effective arm length:
  max. 165 mm (999.682/683/684/685),
  (999.681: max. 105 mm, 999.680: 68 mm).
- Measuring table: granite.
- Flatness table: ≤ 5 µm (999.684/685: delivery with an inspection report), ≤ 10 µm (999.680/681/682/683).
- Dimensions transverse arm:
  ø 20 x 150 mm (999.681),
  ø 20 x 210 mm (999.682/683/684/685).
- Column:
  ø 30 x 200 mm (999.680/681),
  ø 30 x 300 mm (999.682/684),
  ø 30 x 300 mm (999.683/685: helical threaded with anti drop facility).
- Measuring table delivered with a manufacturer measuring report (only 999.684/685).



999.680



999.681



999.682/684

PRICE



999.683/685

Item No.	Measuring height/mm	Dimensions table *l* x *w* x *h*/mm	Price EUR
999.680	140	150 x 100 x 40	259.00
999.681	160	150 x 100 x 40	232.00
999.682	260	250 x 200 x 55	317.00
999.683	260	250 x 200 x 55	337.00
999.684	260	400 x 400 x 70	382.00
999.685	260	400 x 400 x 70	402.00
Option:			
999.679	Clamp ø 28 mm		178.00

C06.311.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Measuring stands

Measuring stands with a granite base in two models with a competitive price-performance ratio.

- Clamping shaft: ø 8 mm.
- Max. measuring height: 250 mm.
- Anti drop facility.
- Granite table.
- Own product.



402.165

Item No.	Measuring height/mm	Flatness table/µm	Dimensions table *l* x *w* x *h*/mm	Column ø/mm	Effective arm length/mm	Price EUR
402.165	150	10	150 x 100 x 40	25	62	280.00
402.168	250	10	250 x 200 x 55	35	100	382.00

Measuring stand

Heavy-duty precision stand with alumina ceramic grooved table and plain column.

- Clamping shaft: ø 8 mm.
- Max. measuring height: 135 mm.
- Effective arm length: 62 mm.
- Measuring table: 80 x 80 x 22 mm.
- Flatness table: ± 2 µm.
- Column: ø 25 mm.
- Base: 150 x 89 x 37 mm.
- Anti drop facility.
- Own product.



Item No.	Description	Price EUR
334.690	Precision stand	434.00

Measuring table

Grooved measuring table made of alumina ceramics as applied to measuring stand 334.690, with the typical advantages of ceramics: high degree of hardness and wear resistance.

- Flatness: ± 2 µm.
- Dimensions: 80 x 80 x 22 mm.
- Bottom-side: 3 tapped holes M6.



Item No.	Description	Price EUR
841.078	Measuring table	316.00

C06.272.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Measuring stands

- Clamping shaft: ø 8 mm.
- Total height: 310 mm.
- Max. measuring height: 180 mm.
- Hard-chrome plated and ground column: ø 35 mm.
- 857.126 and 857.128 with adjustable transverse arm (ø 22 mm), length 220 mm.
- Granite measuring table: 260 x 150 x 48 mm (*l* x *w* x *h*), measuring face: 200 x 150 mm, flatness according DIN 876/00.



857.128



857.125

Item No.	Column	Effective arm length/mm	Price EUR
857.125	plain	104	570.00
857.126	plain	175	639.00
857.127	helical threaded	104	646.00
857.128	helical threaded	175	712.00

Measuring stands

- Clamping shaft: ø 20 mm, ø 25 mm or ø 32 mm.
- Max. measuring height: 290 mm.
- Effective arm length: 167 mm.
- Column: ø 50 mm.
- 996.190/315/820 with anti drop facility.
- Granite measuring table: 400 x 400 x 70 mm, flatness: ≤ 5 µm.
- DIN 876/0.
- Measuring table delivered with a manufacturer measuring report.
- Own product.



996.190



996.189

Item No.	Column	Clamping shaft/mm	Price EUR
996.190	plain	ø 20	636.00
996.189	helical threaded	ø 20	661.00
996.820	plain	ø 25	707.00
996.821	helical threaded	ø 25	732.00
996.315	plain	ø 32	707.00
Option:			
344.470	Reducing bush ø 20/8 mm		22.00

C06.213.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Bench center

Cast iron base with the measuring face's accuracy according DIN 876/1. Supplied with two tail-stocks, one with a fixed center point and one with an adjustable center point by means of a lever.

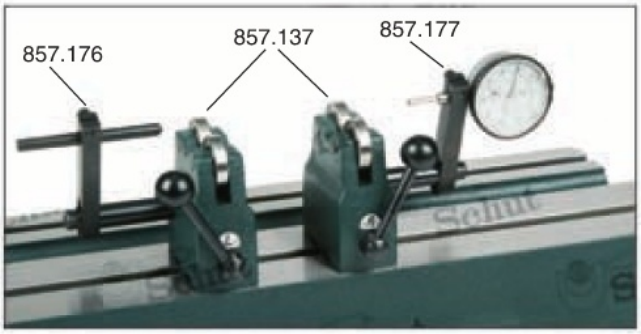
- Center height: 100 mm.
- Max. center distance: 450 mm.
- Center points: 60°.
- Stroke moveable center point: 8 mm.
- Delivery incl. measuring stand 857.141 (column ø 22 x 230 mm, clamping shaft 8H7, with fine adjustment), excl. dial indicator or measuring probe.
- Dimensions measuring face: 700 x 180 mm (incl. face for stand).
- Total height: 320 mm. (Height without stand: 200 mm.)
- Width T-slot: 12H7.
- Weight: 35 kg.
- Larger models with granite base are available on request.

Item No.	Type	Price EUR
857.131	RP 100-450	2,320.00



857.131

Item No.	Description	Price EUR
857.179	Pair of center points with tungsten carbide point 60°	197.00
857.178	Pair of center points with bore	119.00
857.175	Pair of prism inserts	209.00
857.136	Pair of V-blocks	309.00
857.137	Pair of roller blocks	348.00
857.176	Stop	120.00
857.177	Dial indicator holder	108.00
857.141	Extra measuring stand	167.00



Center points (ø 22 mm)

- With tungsten carbide point 60°, or with bore according DIN 332-A 1.6 x 3.8.


857.179


857.178

Prism inserts 90°

- Capacity: ø 8 - 45 mm.
- Center height at ø 10 mm: 130 mm.


857.175

V-blocks 90° and roller blocks

- Capacity V-blocks: ø 8 - 50 mm.
- Capacity roller blocks: ø 2 - 60 mm.
- Center height at ø 10 mm: 100 mm.
- Stop (857.176): ø 8 mm.
- Dial indicator holder (857.177): shaft 8H7.

C06.221.EN.20230516

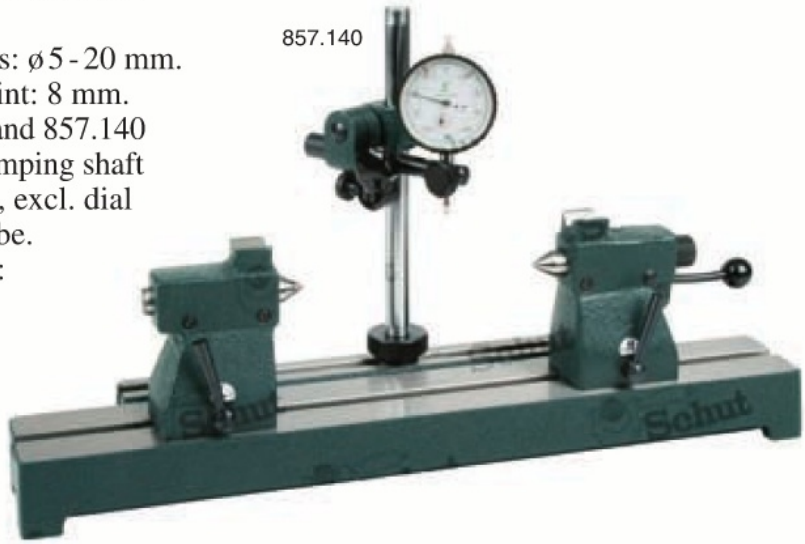
© 2023, Schut Geometrische Meettechniek bv

Bench centers

Cast iron base with the measuring face's accuracy according DIN 876/1. Supplied with two tailstocks, one with a fixed center point and one with an adjustable center point by means of a lever.

- Center height: 50 mm (without V-shaped supports) or 75 mm (P models; with V-shaped supports on the tailstocks).
- Max. center distance: 200 or 350 mm.
- Center points: 60°.
- Capacity V-shaped supports: ø5 - 20 mm.
- Stroke moveable center point: 8 mm.
- Delivery incl. measuring stand 857.140 (column ø16 x 220 mm, clamping shaft 8H7, with fine adjustment), excl. dial indicator or measuring probe.
- Dimensions measuring face: 350 x 110 or 500 x 110 mm (including face for measuring stand).
- Total height (incl. measuring stand): 260 mm.
- Width T-slot: 10H7.
- Vertical models are also available.

857.140



857.133

Item No.	Type	Center height mm	Max. center distance/mm	Measuring face/mm	Weight kg	Price EUR
857.132	RP 50-200	50	200	350 x 110	8	764.00
857.133	RP 75-200P	75	200	350 x 110	9	823.00
857.134	RP 50-350	50	350	500 x 110	11	947.00
857.135	RP 75-350P	75	350	500 x 110	12	1,003.00

Item No.	Description	Price EUR
857.174	Pair of center points with tungsten carbide point 60°	129.00
857.155	Pair of center points with bore	80.00
857.180	Pair of prism inserts	112.00
857.138	Pair of V-blocks	211.00
857.139	Pair of roller blocks	254.00
857.172	Stop	87.00
857.173	Dial indicator holder	85.00
857.140	Extra measuring stand	114.00



857.138

Center points (ø16 mm)

- With tungsten carbide point 60°, or with bore according DIN 332-A 1.6 x 3.8.



857.174



857.155

Prism inserts 90°

- Capacity: ø3 - 15 mm.
- Center height at ø10 mm: 70 mm (RP 50) or 95 mm (RP 75).

857.180



V-blocks 90° and roller blocks

- Capacity V-blocks: ø5 - 25 mm.
- Capacity roller blocks: ø2 - 40 mm.
- Center height at ø10 mm: 65 mm.
- Stop (857.172): ø8 mm.
- Dial indicator holder (857.173): shaft 8H7.

C06.222.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Bench center

Bench center with rotatable collet chuck. Cast iron base with the measuring face's accuracy according DIN 876/1.

- Center height: 75 mm.
- Measuring range: 0 - 100 mm (up to center).
- Capacity: ø0.5 - 9.5 mm.
- Concentricity of the tailstock quill: ±5 µm.
- Delivery incl. measuring stand 857.140 (column ø16 x 220 mm, clamping shaft 8H7, with fine adjustment), excl. dial indicator or measuring probe and collet chuck.
- Dimensions measuring face: 200 x 110 mm (DIN 876/1) (incl. face for stand).
- Weight: 5.6 kg (857.184).
- Total height (incl. measuring stand): 270 mm.
- Width T-slot: 10H7.
- Concentricity accuracy collet chucks: 0.03 mm.



Item No.	Center height/mm	Price EUR
857.184	75	762.00
Option:		
857.182	Separate tailstock	643.00


857.274

Collet chucks

Item No.	Clamping range	Price EUR
857.272	0.5 - 1	53.00
857.273	1 - 1.5	53.00
857.274	1.5 - 2	53.00
857.275	2 - 2.5	53.00
857.276	2.5 - 3	53.00
857.277	3 - 3.5	49.00
857.278	3.5 - 4	49.00
857.279	4 - 4.5	49.00
857.280	4.5 - 5	49.00
857.281	5 - 5.5	49.00
857.282	5.5 - 6	49.00
857.283	6 - 6.5	49.00
857.284	6.5 - 7	49.00
857.285	7 - 7.5	49.00
857.286	7.5 - 8	49.00
857.287	8 - 8.5	49.00
857.288	8.5 - 9	49.00
857.289	9 - 9.5	49.00

Bench center

Bench center with rotatable collet chuck.

- Measuring range: 0 - 50 mm (up to center).
- Capacity: ø0.5 - 7 mm.
- Clamping shaft: 8H7.
- Excl. dial indicator or measuring probe and collet chuck.
- Weight: 1.8 kg.
- Concentricity accuracy collet chucks: 0.03 mm.



Item No.	Description	Price EUR
857.185	Bench center	213.00


857.190

Collet chucks

Item No.	Clamping range	Price EUR
857.188	0.5 - 1	50.00
857.189	1 - 1.5	50.00
857.190	1.5 - 2	50.00
857.191	2 - 2.5	50.00
857.192	2.5 - 3	50.00
857.193	3 - 3.5	46.00
857.194	3.5 - 4	46.00
857.195	4 - 4.5	46.00
857.196	4.5 - 5	46.00
857.197	5 - 5.5	46.00
857.198	5.5 - 6	46.00
857.199	6 - 6.5	46.00
857.200	6.5 - 7	46.00

C06.308.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Fisso run out testers and balancing units

Run out tester with roller wheels or V-blocks for efficient testing of external, internal and surfaces of round products. Balancing unit with roller wheels for efficient testing of grinding wheels and other round products. The supports are adjustable and can be fixed on the base plate by means of a lever. Ideal for checking products in the production environment.

- Diameter compensation run out tester: max. 60 mm.
- Workpiece run out tester: max. ø240 mm, workpiece balancing unit: max. ø500 mm.
- Weight workpiece: max. 25 kg.
- Length base plate: run out tester: 500 or 1000 mm, balancing unit: 330 or 500 mm.
- Width T-slot: 14 mm.

Model with roller wheels
- Accuracy roller wheel: ±0.005 mm.
- Roller wheel: ø120 mm.

Model with V-blocks
- Tungsten carbide supports.



837.214



837.216

SWISS MADE



837.222

Item No.	Length base plate/mm	Weight kg	Price EUR
Run out tester with roller wheels:			
837.214	500	approx. 14	3,440.00
837.215	1000	approx. 23	3,980.00
Run out tester with V-blocks:			
837.216	500	approx. 14	3,440.00
837.217	1000	approx. 23	3,980.00
Balancing unit:			
837.222	330	approx. 13	2,580.00
837.223	500	approx. 16	3,070.00

FISSO Swiss Made

C06.306.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Granite surface plates

Black granite surface plates according to DIN 876 specifications. Sizes vary from 250 x 250 mm to 2000 x 1000 mm.

- Delivery with an inspection report.
- Straight beveled edges.
- Cover (synthetic leather) optionally available.
- Surface plate stand optionally available (see "surface plate accessories" elsewhere in this catalog).
- Weight including wooden transport packaging.



402.252



131.101 +
131.113 +
131.108 +
402.028



131.100 +
402.028

Delivery ex Groningen, Netherlands

Dimensions l x w x h mm	Weight[1] kg	Accuracy according DIN 876/1 Item No.	Price EUR	Accuracy according DIN 876/0 Item No.	Price EUR	Accuracy according DIN 876/00 Item No.	Price EUR	Cover[2] Item No.	Price EUR
250 x 250 x 50	13	402.000	156.00	402.020	167.00	402.040	195.00	402.250	48.00
400 x 250 x 50	20	402.001	261.00	402.021	289.00	402.041	311.00	402.251	53.00
400 x 400 x 70	41	402.002	340.00	402.022	356.00	402.042	411.00	402.252	56.00
630 x 400 x 70	65	402.003	581.00	402.023	608.00	402.043	702.00	402.253	69.00
630 x 630 x 80	108	402.004	778.00	402.024	817.00	402.044	943.00	402.254	75.00
800 x 500 x 100	136	402.005	808.00	402.025	846.00	402.045	960.00	402.255	88.00
900 x 600 x 100	188	402.006	1,090.00	402.026	1,209.00	402.046	1,372.00	402.256	94.00
1000 x 630 x 100	223	402.007	1,309.00	402.027	1,437.00	402.047	1,621.00	402.257	106.00
1000 x 630 x 150	317	402.008	1,426.00	402.028	1,496.00	402.048	1,718.00	402.257	106.00
1000 x 1000 x 100	342	402.009	1,669.00	402.029	1,786.00	402.049	2,300.00	402.258	125.00
1000 x 1000 x 150	504	402.010	2,010.00	402.030	2,100.00	402.050	2,420.00	402.258	125.00
1200 x 800 x 120	394	402.011	1,927.00	402.031	2,020.00	402.051	2,420.00	402.259	138.00
1200 x 800 x 150	467	402.012	2,020.00	402.032	2,110.00	402.052	2,500.00	402.259	138.00
1500 x 1000 x 150	750	402.013	3,150.00	402.033	3,300.00	402.053	3,780.00	402.260	175.00
1500 x 1000 x 200	971	402.014	3,280.00	402.034	3,430.00	402.054	3,940.00	402.260	175.00
2000 x 1000 x 200	1295	402.015	5,060.00	402.035	5,290.00	402.055	6,190.00	402.261	263.00
2000 x 1000 x 250	1600	402.016	6,320.00	402.036	6,620.00	402.056	7,740.00	402.261	263.00

[1] Weight including wooden packing.
[2] Dimensions of the covers are equal to the length and the width of the surface plate, all covers have a depth of 50 mm.

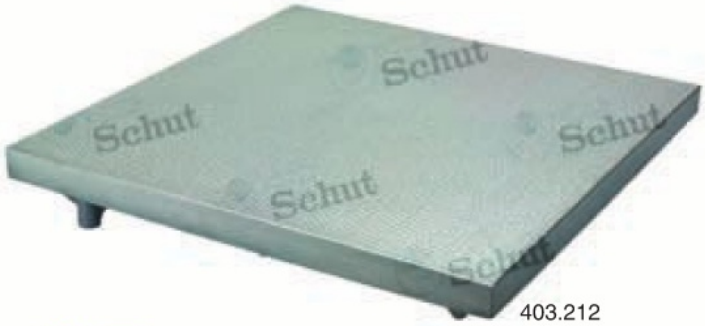
C06.217.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Cast iron surface plates

Extra heavy, cast iron surface plates.

- Three models:
  - milled (smoothened), accuracy according DIN 876/3,
  - hand scraped, accuracy according DIN 876/1,
  - fine scraped, accuracy according DIN 876/0.
- The side faces of all plates are milled and varnished.
- Surface plate stand optionally available (see "surface plate accessories" elsewhere in this catalog).



403.212

Schut

Delivery ex Groningen, Netherlands

Dimensions *l* x *w* mm	Weight kg (approx.)	Accuracy according DIN 876/3 Item No.	Price EUR	Accuracy according DIN 876/1 Item No.	Price EUR	Accuracy according DIN 876/0 Item No.	Price EUR
200 x 200	7	403.236	106.00	403.208	146.00	403.185	175.00
250 x 250	12	403.237	133.00	403.209	190.00	403.186	232.00
300 x 300	15	403.238	184.00	403.210	265.00	403.187	316.00
400 x 250	25	403.239	221.00	403.211	305.00	403.188	391.00
400 x 400	35	403.240	286.00	403.212	445.00	403.189	542.00
500 x 500	50	403.241	442.00	403.213	658.00	403.190	791.00
600 x 400	45	403.242	419.00	403.214	612.00	403.191	761.00
630 x 630	90	403.243	757.00	403.215	1,084.00	403.192	1,263.00
800 x 500	95	403.249	856.00	403.221	1,227.00	403.193	1,449.00
1000 x 600	140	403.245	1,308.00	403.217	1,793.00	403.194	2,240.00
1000 x 1000	270	403.246	2,010.00	403.218	2,740.00	403.195	3,340.00
1200 x 800	300	403.250	2,130.00	403.222	2,760.00	403.196	3,350.00
1500 x 1000	650					403.197	4,220.00
2000 x 1000	1000	403.248	5,610.00	403.220	7,140.00		

Fine scraped plate (DIN 876/1) with lapp and inspection surface

Cast iron duplex plate with one flat inspection surface and one squared lapp surface, both finely scraped according to DIN 876/1. With the optional wooden box the surface plate can be used on both sides, because the top and bottom side of the case can be separated.

- Flatness: 14 µm.
- Dimensions *l* x *w* x *h*: 360 x 260 x 65 mm.
- Weight: approx. 24 kg.



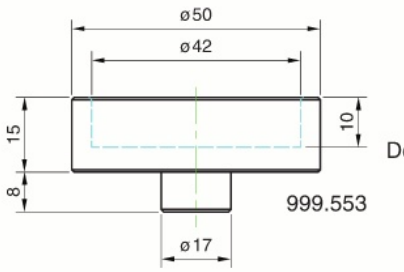
Item No.	Description	Price EUR
403.150	Duplex plate	393.00
403.151	Wooden case (double sided use)	75.00

C06.218.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Surface plate supports

- For use with large granite or cast iron surface plates with a minimum size of 1000 x 630 mm.
- Support adjustable in height, with adjusting bolt and lock nut.
- For granite and cast iron surface plates it is advisable to use 5 surface plate supports, 3 for the Bessel points and 2 for tilt protection or a set of 5 supports, consisting of 3 surface plate supports and 2 sleeping points.
- Delivery incl. adjusting bolt and lock nut, excl. required supporting cup.



Delivery ex Groningen, Netherlands



403.298 + 999.553 (5 pieces) + 997.343

Item No.	Description	Height/mm min.[1]	Height/mm max.[1]	Price EUR
403.253	Surface plate support	550	580	264.00
403.254	Surface plate support	650	680	308.00
403.298[2]	Set of 5 supports	550	580	992.00
403.299[2]	Set of 5 supports	650	680	1,159.00
999.553[3]	Supporting cup (per piece)			28.00
997.343[4]	Support set			87.00

[1] Height without supporting cup and supporting set (incl. adjusting bolt and lock nut).
[2] Set consists of 3 supports and 2 tilt protectors.
[3] Required for granite and cast iron surface plates.
[4] Required for granite surface plates (in combination with supporting cups).



Support with supporting cup and supporting set.

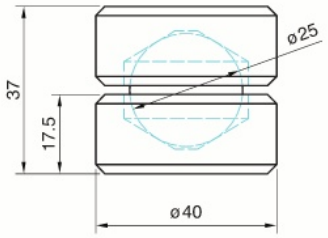


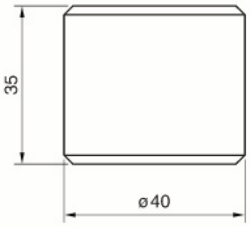
Sleeping point with supporting cup and supporting set.

Support set for surface plates

Support set for placing a small surface plate on a working table.

- Set consists of support based on 3 Bessel points and two tilt protectors.
- Stainless steel construction.
- Diameter: 40 mm.





Item No.	Description	Price EUR
997.343	Support set	87.00



C06.314.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Surface plate stands

Extremely solid surface plate stands with excellent price-quality ratio. Support of the surface plate is determined on the basis of the bessel points and has an optional slide protection and chest of drawers. Working height depends on the surface plate thickness. The models for surface plates equal to or larger than 1000 x 1000 mm directly bear the load at the bessel points to the floor.

- Delivered incl. support (bessel) and sleeping points.
- Difference min. and max. height incl. surface plate: 25 mm.
- Delivered in color RAL 7035.



131.101 + 131.113 + 131.108 + 402.028

Delivery ex Groningen, Netherlands



131.100 + 402.028



Sleeping point.



Bessel point.



131.117

Item No.	For granite surface plates dimensions *l* x *w* x *t*/mm	Height incl. surface plate min./mm	max./mm	Price EUR
Surface plate stand (standard model):				
131.100[1]	630 x 630 x 80	880	905	504.00
131.100[1]	800 x 500 x 100	900	925	504.00
131.100[1]	900 x 600 x 100	900	925	504.00
131.100[1]	1000 x 630 x 100	900	925	504.00
131.100[1]	1000 x 630 x 150	950	975	504.00
131.104	2000 x 1000 x 200	850	875	623.00
131.104	2000 x 1000 x 250	900	925	623.00
Surface plate stand (prepared for chest of drawers):				
131.101[1]	630 x 630 x 80	880	905	515.00
131.101[1]	800 x 500 x 100	900	925	515.00
131.101[1]	900 x 600 x 100	900	925	515.00
131.101[1]	1000 x 630 x 100	900	925	515.00
131.101[1]	1000 x 630 x 150	950	975	515.00
131.102	1000 x 1000 x 100	850	875	623.00
131.102	1000 x 1000 x 150	900	925	623.00
131.102	1200 x 800 x 120	870	895	623.00
131.102	1200 x 800 x 150	900	925	623.00
131.103	1500 x 1000 x 150	850	875	639.00
131.103	1500 x 1000 x 200	900	925	639.00

[1] Does not directly bear the load to the floor at the bessel points.
[2] Incl. fasteners.
[3] Sleeping 2 and bessel points 3 needed.
[4] Excl. brass supporting cup.
[5] Excl. lock nut.
[6] For 131.100, 131.101, 131.102: 4 needed.
For 131.103, 131.104: 5 needed.

Options

Item No.	For granite surface plates dimensions *l* x *w* x *t*/mm	Price EUR
Slide protection[2] for surface plate stands:		
131.105	630 x 630 x 80	198.00
131.106	800 x 500 x 100	212.00
131.107	900 x 600 x 100	224.00
131.108	1000 x 630 x 100/150	224.00
131.109	1000 x 1000 x 100/150	223.00
131.110	1200 x 800 x 120/150	228.00
131.111	1500 x 1000 x 150/200	320.00
131.112	2000 x 1000 x 200/250	302.00
Bessel and sleeping points:		
131.115[3,5]	Sleeping point (tilt protection) (height: 30 mm higher than standard)	14.70
131.116[3,4,5]	Bessel point (height: 30 mm higher than standard)	14.70
Surface plate support for extra working height:		
131.117[6]	Height: 125 mm higher than standard.	19.30
Chest of drawers:		
131.113[2]	Chest of drawers (RAL 5015), incl. fasteners, 610 x 480 x 470 mm (*w* x *d* x *h*); 3 drawers. Inside dimensions drawers (*w* x *d* x *h*): upper drawer: 515 x 395 x 90 mm, middle drawer: 515 x 395 x 105 mm, lower drawer: 515 x 395 x 135 mm.	617.00

C06.309.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Granite plate cleaner

Special granite plate cleaner to keep the surface of your granite surface plate clean and useable for a long period. Dust, dirt, grease stains, finger and hand prints can easily be removed. A clean and smooth surface provides low friction, less wear and the most accurate measurements. The non-corrosive property of the cleaner prevents corrosion damage to metal products.



Item No.	Description	Price EUR
407.304	Cleaner, 500 ml	7.60

Surface plate stands

Extremely solid surface plate stand. Construction is determined on the basis of the Bessel points and has a slide protection. Working height is standard 900 mm.



Item No.	For granite surface plates dimensions *l* x *w* x *t*/mm	Price EUR
131.020	630 x 630 x 80	590.00
131.013	900 x 600 x 100	578.00

Item No.	For cast iron surface plates dimensions *l* x *w*/mm	Price EUR
131.030	1000 x 600	659.00
131.029	1000 x 1000	710.00
131.041	1200 x 800	710.00
131.022	1500 x 1000	802.00
131.031	2000 x 1000	853.00

C06.220.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

V-blocks / Vises / Angle plates / Cylindrical squares Squares / Parallels / Straight edges

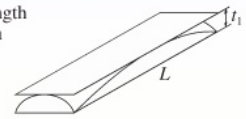


Flatness tolerances according DIN 874	
Class	Flatness t_1 (µm)
00	$1+L/150$
0	$2+L/100$
1	$4+L/\ 60$
2	$8+L/\ 40$

Squareness tolerances according DIN 875	
Class	Squareness (µm)
00	$2+L/100$
0	$5+L/\ 50$
1	$10+L/\ 20$
2	$20+L/\ 10$

Flatness tolerances according DIN 876	
Class	Flatness t_1 (µm)
00	$2+L/500$
0	$4+L/250$
1	$10+L/100$
2	$20+L/\ 50$
3	$40+L/\ 25$

L = length in mm



C07.000.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

V-blocks in pairs

V-blocks for clamping, processing, aligning and inspecting cylindrical objects, available in three classes.

- **Class 3:** Parallelism: 60 µm.
  Base and prism face smooth planed, short and long side processed.
  Class 1: Parallelism: 16 µm.
  Base and prism face hand scraped, short and long side processed.
  Class 0: Parallelism: 8 µm.
  Base and prism face and short side fine scraped, long side processed.
- Ground in matched pairs.
- V-groove: 90°.



403.390

Dimensions *l* x *w* x *h* mm	Capacity ø/mm	Weight p. pair kg	Class 3 Item No.	Class 3 Price EUR p. pair	Class 1 Item No.	Class 1 Price EUR p. pair	Class 0 Item No.	Class 0 Price EUR p. pair
Steel:								
100 x 40 x 30	6 - 50	1.4	403.396	53.00	403.390	70.00	403.380	96.00
150 x 50 x 40	8 - 60	3.6	403.397	80.00	403.391	103.00	403.381	157.00
High-quality gray cast iron:								
200 x 70 x 50	8 - 75	6.1	403.398	135.00	403.392	170.00	403.382	247.00
250 x 85 x 60	10 - 100	10	403.399	226.00	403.395	303.00	403.383	344.00
300 x 100 x 70	15 - 120	15	403.400	306.00	403.393	424.00	403.384	501.00

X-blocks in pairs

The X-blocks have four V-grooves of 90°, all varying in size.

- **Class 1:** Parallelism: 16 µm.
  Flatness of the measuring faces according DIN 876/1.
  All surfaces hand scraped.
  Class 0: Parallelism: 8 µm.
  Flatness of the measuring faces according DIN 876/0.
  All surfaces fine scraped.
- All four V-grooves are ground in matched pairs.
- Material: high-quality gray cast iron.
- V-groove: 90°.
- Holds workpieces on all faces.



403.371

Dimensions *l* x *w* x *h* mm	Capacity ø/mm	Weight p. pair kg	Class 1 Item No.	Class 1 Price EUR p. pair	Class 0 Item No.	Class 0 Price EUR p. pair
120 x 100 x 60	8 - 90	6	403.370	234.00	403.360	276.00
150 x 130 x 75	8 - 110	10.4	403.371	319.00	403.361	375.00
200 x 170 x 90	8 - 150	25	403.372	498.00	403.362	589.00

Schut

C07.201.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Magnetic V-blocks

- Accuracy: ±0.02 mm / 100 mm.
- On/off switch.
- V-groove: 90°.


906.207


906.208



Item No.	Dimensions *l* x *w* x *h*/mm	Capacity ø/mm	Magnetic force/N	Weight kg	Price EUR
906.207	70 x 60 x 72	8 - 50	686	1.8	55.00
906.208	100 x 70 x 95	6 - 55	1178	3.7	93.00



Magnetic V-blocks

- Magnetic force: 200 N.
- Ground in matched pairs.
- V-groove: 90°.
- Weight: 2.2 kg (per piece).





Item No.	Dimensions *l* x *w* x *h*/mm	Capacity ø/mm	Price EUR
906.210	100 x 50 x 80	6 - 70	292.00

Magnetic V-block

- V-groove: 90°.
- Magnetic force of round spindle axis in V-groove: 450 N, magnetic force of base plate: 450 N.



Item No.	Dimensions *l* x *w* x *h*/mm	Capacity ø/mm	Price EUR
855.200	125 x 60 x 73	6 - 50	319.00

C07.202.EN.20230516

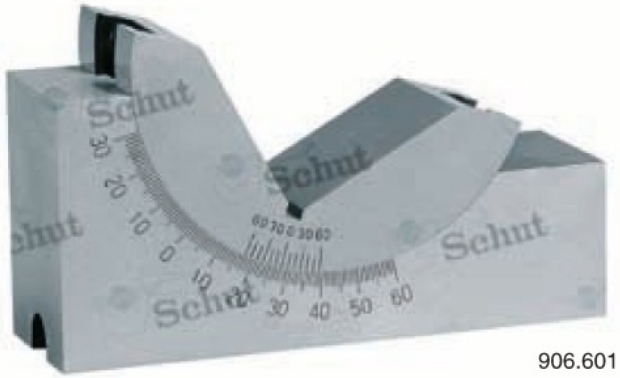
© 2023, Schut Geometrische Meettechniek bv

Adjustable V-blocks

V-blocks adjustable from 0 to +60 degrees and 0 to –15 degrees. Suitable for metal cutting machines and for various measuring purposes.

- Vernier: 10'.
- Accuracy: 15'.
- Capacity: ø6 - 28 mm (906.600), ø6 - 40 mm (906.601/602).
- Dial: 0 to +60° / 0 to -15°.
- Flatness measuring faces: 0.01 mm.
- Hardness: 50 - 55 HRC (base), 58 - 62 HRC (V-block).
- V-groove: 90°.
- Adjustable angle by locking Allen.
- Delivery in a plastic case or a wooden case incl. Allen key.

Item No.	Dimensions *l* x *w* x *h*/mm	Price EUR
906.600	75 x 25 x 32.5	57.00
906.601	102 x 30 x 48	57.00
906.602	102 x 46 x 48	66.00



906.601

V-blocks in pairs

- Parallelism measuring faces: ±4 µm.
- Squareness of front face with bottom face according DIN 2274.
- Hardened (650 ± 100 HV5).
- Ground in matched pairs.
- V-groove: 90°.
- Delivery incl. clamp.



666.550

Item No.	Dimensions *l* x *w* x *h*/mm	Capacity ø/mm	Price EUR
666.550	50 x 40 x 40	5 - 30	139.00
666.551	75 x 55 x 55	5 - 50	212.00
666.552	100 x 75 x 75	7 - 70	330.00

V-blocks in pairs

- Parallelism measuring faces: ±4 µm.
- Squareness of all side faces with each other according DIN 2274.
- Hardened (650 ± 100 HV5).
- Ground in matched pairs.
- V-groove: 90°.
- Delivery incl. clamp.



666.540

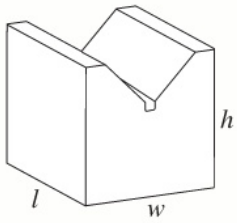
Item No.	Dimensions *l* x *w* x *h*/mm	Capacity ø/mm	Price EUR
666.540	60 x 58 x 40	5 - 30	179.00
666.541	75 x 70 x 54	5 - 50	272.00
666.542	100 x 96 x 75	7 - 70	412.00

C07.203.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Granite V-blocks in pairs

- V-groove: 90°.
- Material: granite.
- Processed in matched pairs.
- Delivery in an aluminum carrying case with a manufacturer measuring report.



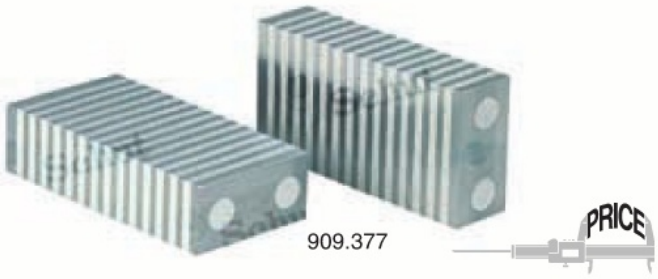


Dimensions *l* x *w* x *h*/mm	Capacity ø/mm	Weight kg[1]	Item No.	Accuracy µm[2]	Price EUR	Item No.	Accuracy µm[2]	Price EUR
			Class 1:			**Class 0:**		
63 x 63 x 63	10 - 50	1.4	402.155	± 6	264.00	402.159	±3	286.00
100 x 100 x 100	15 - 75	5.6	402.156	± 8	305.00	402.160	±4	330.00
100 x 160 x 160	25 - 125	14.2	402.157	± 8	480.00	402.161	±4	522.00
160 x 250 x 250	60 - 200	55.2	402.158	±10	758.00	402.162	±5	830.00

[1] Weight per pair.
[2] Parallelism between measuring faces and base.

Magnetic induction blocks in pairs

These magnetic induction blocks are not magnetized themselves. They are placed on a magnetic chuck to induce, to hold objects as for example round bars.



Item No.	Dimensions *l* x *w* x *h*/mm	Weight kg	Price EUR
909.377	100 x 50 x 25	1.18	54.00
909.378	50 x 60 x 48	1.13	60.00

- Material: steel and aluminum alloy.
- Ground in matched pairs.

V-blocks (909.378)

- Capacity: ø 7 - 50 mm.
- V-groove: 90°.



Magnetic holders

- Angles 45°, 90° and 135°.

PRICE

Schut



Item No.	Dimensions *h* x *w*/mm	Thickness mm	Holding power/kg	Price EUR
909.342	80 x 120	14	2.5	13.50
909.332	100 x 155	17	8	13.90

C07.205.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mini precision clamping tools

Miniature clamping tools for clamping of small products. Very well suited for measuring for example with roughness testers, microscopes or measuring machines.

Mini precision vises

- Accuracy (parallelism, flatness and squareness): 0.02 mm.
- 856.081: brass, matt chrome-plated; 856.082 and 856.083: aluminum, matt anodized.
- Standard supplied with 2 pairs of jaws (hardened stainless steel and plastic): 1 side with a ground horizontal and vertical prism and 1 flat side.
- 856.081 and 856.082: on the bottom-side provided with 2 x M4 threaded bores with center distances 42 and 62.5 mm; 856.083: on the bottom-side provided with 2 x M6 threaded bores with center distance approx. 83 mm.

Clamp jaw sets
Sets consisting of 1 pair plastic jaws, 1 pair with stepped jaws and 1 jaw with a stopper in the horizontal prism.


856.081

Schut



Item No.	Jaw opening mm	Jaw width mm	Jaw depth mm	Length mm	Weight kg	Price EUR
856.081	14	15	8	50	0.075	104.00
856.082	23	25	15	75	0.16	139.00
856.083	32	35	21	100	0.4	196.00



Options

Item No.	Description	Price EUR
Clamp jaw sets:		
856.084	For 856.081	42.00
856.085	For 856.082	57.00
856.086	For 856.083	85.00



856.084

Mini precision vises in a set

Mini precision vises in a set, consists of 856.081, 856.082 and 856.083 with matching clamp jaws.

- Delivery in a plastic carrying case.

NEW



Item No.	Description	Price EUR
856.175	Mini precision vises in a set	654.00

C07.318.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mini indexable collets

- Clamping range: 0.4 - 6 mm.
- Per approx. 45 degrees indexable.
- Aluminum, blasted.
- Mounting by means of two M6 threaded bores on the bottom-side.



Item No.	Clamping range mm	Dimensions *l* x *w* x *h*/mm	Price EUR
856.090	0.4 - 3.5	26 x 21 x 34	133.00
856.091	1.2 - 6	26 x 26 x 39	133.00

Stand for mini precision vises

Stand for use with mini precision vices in combination with base plates. The base plates can also be used with other stands. For these stands see dial indicator stands elsewhere in the catalog.

Item No.	Description	Price EUR
670.057	Stand for 856.081 and 856.082	
Base plates:		
856.087	For 856.081	26.00
856.088	For 856.082	27.70
856.089	For 856.083	31.20

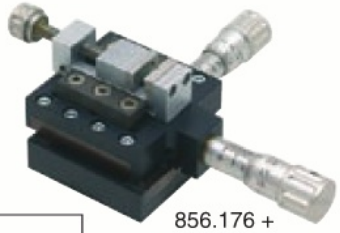




XY table for mini precision vises

XY table for accurate positioning underneath a microscope, for example.

- Dimensions: 50 x 50 x 27 mm.
- Range: 10 x 10 mm.
- Graduation micrometers: 0.01 mm.



Item No.	Description	Price EUR
856.176	XY table	952.00
856.177	Adapter for mini precision vise 856.081	79.00
856.178	Adapter for mini precision vise 856.082	100.00



Mini V-block

- Dimensions: 25 x 20 x 20 mm.
- Stainless steel construction.
- Delivery incl. clamp.



Item No.	Description	Price EUR
856.179	Mini V-block	127.00

Mini magnetic V-blocks

- Aluminum, hardened steel.



Item No.	Description	Price EUR
856.173	Mini V-block 20 x 20 x 17.5 mm	162.00
856.174	Mini V-block 30 x 30 x 25 mm	182.00

C07.319.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Precision vises

Hardened precision vises for accurate measurements and machine operations.

- Accuracy (parallelism, flatness and squareness):
  ≤100 mm jaw opening = 0.005 mm,
  >100 mm jaw opening = 0.005 mm per 100 mm.
- With horizontally and vertically ground prism in the moveable jaw.

Precision and universal sine vises

- Stable and accurate to fix in each angle position (0 to 45°).

Universal precision vise

- With 360° rotatable base.
- Accurate degree scale.
- Stable and accurate to fix in each angle position (0 to 45°).



909.734



909.739



909.746

PRICE



909.749



909.752

Item No.	Jaw opening mm	Jaw width mm	Jaw depth mm	Length mm	Price EUR
Precision vises:					
909.733	60	50	25	150	83.00
909.734	80	75	35	200	117.00
909.735	120	100	45	250	224.00
909.736	155	125	50	300	374.00
909.737	25	25	10	65	46.00
909.738	65	50	25	140	66.00
909.739	100	75	35	190	83.00
909.740	120	100	45	240	176.00
909.741	155	125	50	280	256.00
Precision sine vises with swivelling front axis:					
909.742	60	50	25	140	121.00
909.743	100	75	35	190	155.00
909.744	120	100	45	250	345.00
Precision sine vises with swivelling rear axis:					
909.745	60	50	25	140	131.00
909.746	100	75	35	190	164.00
909.747	120	100	45	250	278.00
Universal sine vises:					
909.748	60	50	25	140	223.00
909.749	90	75	35	200	320.00
909.750	120	100	45	250	532.00
909.751	155	125	50	300	700.00
Universal precision vise:					
909.752	80	70	30	–	983.00

Schut

C07.309.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Modular precision vises

Hardened precision vises for fixation for various machine operations.

- With or without 90° rotatable base.
- Accuracy (parallelism, flatness and squareness):
  ≤100 mm jaw opening = 0.005 mm,
  >100 mm jaw opening = 0.005 mm per 100 mm.
- Also available:
  – intermediate sizes with other jaw depths and jaw openings,
  – larger models with jaw width 200 or 300 mm and jaw opening up to 600 mm.



909.702



909.706

Jaw opening mm	Jaw width mm	Jaw depth mm	Length mm	Without rotatable base Item No.	Without rotatable base Price EUR	With rotatable base Item No.	With rotatable base Price EUR
100	100	30	270	909.702	533.00	909.706	829.00
150	125	40	345	909.703	711.00	909.707	1,075.00
200	150	50	420	909.704	840.00	909.708	1,203.00
400	175	60	655	909.705	1,289.00	909.709	1,770.00

Long modular vises

Long hardened vises for fixation for various machine operations.

- Single or two-sided model.
- Also available:
  – intermediate sizes with other jaw depths and jaw openings,
  – larger models with jaw width 200 mm and jaw opening up to 700 mm (single) or 250 mm (two-sided).



909.714



909.710

Jaw width mm	Jaw depth mm	Length mm	Single Item No.	Single Jaw opening/mm	Single Price EUR	Two-sided Item No.	Two-sided Jaw opening/mm	Two-sided Price EUR
100	30	460	909.710	290	932.00	909.714	90	988.00
125	40	520	909.711	320	997.00	909.715	100	1,115.00
150	50	580	909.712	360	1,359.00	–	–	
150	50	680	–	–		909.716	160	1,812.00
175	60	866	909.713	600	2,180.00	909.717	220	2,470.00

C07.310.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Short modular vises

Short hardened vises for fixation for various machine operations.

- With fixed jaw, fixed double jaw or moveable jaw.



909.723



909.728



909.718

PRICE

Jaw width mm	Jaw depth mm	Length mm	Height mm	Fixed jaw Item No.	Fixed jaw Price EUR	Fixed double jaw Item No.	Fixed double jaw Price EUR	Moveable jaw Item No.	Moveable jaw Price EUR
100	30	140	65	909.723	243.00	909.728	271.00	909.718	271.00
125	40	160	80	909.724	263.00	909.729	296.00	909.719	296.00
150	50	230	100	909.725	359.00	909.730	405.00	909.720	405.00
175	60	240	118	909.726	525.00	909.731	609.00	909.721	609.00
200	65	300	135	909.727	734.00	909.732	853.00	909.722	830.00

Precision sine plates

- Stable and accurate to fix in each angle position (0 to 45°).

Precision sine plates

- Accuracy (parallelism and squareness):
  ≤100 mm dimension *l* or *w* = 0.005 mm,
  >100 mm dimension *l* or *w* = 0.005 mm per 100 mm.
- Mounting hole pattern 909.690: 13x 1/4 inch,
  909.691: 23x 1/4 inch.

Magnetic precision sine plates

Permanently magnetic sine plates for positioning and holding small or odd-shaped workpieces.

- Center distance of the support cylinders:
  909.690/692: 76 mm,
  909.691/693: 125 mm.

PRICE

Item No.	Dimensions/mm	Price EUR
Precision sine plates:		
909.690	100 x 100 x 50	162.00
909.691	152 x 152 x 57	190.00
Magnetic precision sine plates:		
909.692	100 x 100 x 117	446.00
909.693	152 x 152 x 117	557.00



909.690



909.692

C07.311.EN.20230516

Granite square blocks with V-nut and tapped holes

Multifunctional granite blocks for e.g. flatness and squareness measurements, with V-nut and several tapped holes. Hold workpieces on several faces.

- Accuracy measuring faces: flatness conforms to DIN 876/0, squareness conforms to DIN 875/1.
- Screw thread of tapping holes: 402.170: M6, 402.171/172: M8.
- Equilateral cubic.
- Delivery with a manufacturer's certificate.





402.170

Item No.	Dimensions mm	Flatness µm	Squareness µm	Weight kg	Price EUR
402.170	160 x 160 x 160	4	8	9.6	502.00
402.171	200 x 200 x 200	5	9	17	777.00
402.172	250 x 250 x 250	5	10	34	1,133.00

Four-sided cast iron parallel blocks in pairs

Hollow but yet stable cast iron parallel blocks because of the internal bridge construction.

- **Class 3:** Parallelism: 64 µm. Smooth planed.
  Class 1: Parallelism: 16 µm. Hand scraped.
  Class 0: Parallelism: 8 µm. Fine scraped.
- Flatness conforms to DIN 876.
- Squareness conforms to DIN 875.
- Plan parallel and square matched in pairs.



403.622

Dimensions *l* x *w* x *h*/mm	Weight p. pair/kg	**Class 3** Item No.	Price EUR	**Class 1** Item No.	Price EUR	**Class 0** Item No.	Price EUR
150 x 150 x 100	18	403.628	500.00	403.624	796.00	403.620	942.00
200 x 150 x 100	28	403.629	699.00	403.625	1,042.00	403.621	1,300.00
300 x 225 x 150	60	403.630	1,073.00	403.626	1,812.00	403.622	2,150.00
400 x 300 x 200	140	403.631	2,110.00	403.627	3,530.00	403.623	4,160.00

Cast iron angle blocks with several clamping possibilities

Cast iron angle block, with four clamping faces with several slots and taps, for aligning and clamping of tools and products. The four faces are planparallel and square matched.

- Slot width: 18 mm (403.607: 20 mm).



403.606

Item No.	Dimensions *l* x *w* x *h*/mm	Parallelism µm	Squareness µm	Weight kg	Price EUR
403.605	250 x 150 x 100	50	35	13	286.00
403.606	300 x 200 x 150	52	40	23	529.00
403.607	400 x 250 x 200	56	46	55	854.00

C07.271.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Cast iron clamping tables with several clamping possibilities

These cast iron clamping tables offer many possibilities for aligning and clamping products for mechanical processing. The six faces are parallel and square milled. Four of these faces are equipped with several clamping slots and the top face with T-slots.

- Flatness according DIN 876/3.
- T-slots according DIN 650.



403.613

Item No.	Dimensions *l* x *w* x *h*/mm	Weight kg	Nom. value T-slots/mm	Slot width mm	Price EUR
403.610	250 x 180 x 150	25	14	16	567.00
403.611	300 x 220 x 200	37	14	18	798.00
403.612	350 x 280 x 250	70	22	22	1,136.00
403.613	400 x 350 x 300	115	22	22	1,548.00
403.614	500 x 450 x 400	180	22	22	2,100.00
403.615	800 x 700 x 600	670	28	30	4,020.00

Cast iron angle plates with several clamping slots

These cast iron angle plates have several clamping slots both in the base and the clamping face, which make them suitable for all kind of fixtures.

- Flatness according DIN 876.
- Squareness according DIN 875.
- Strengthened outsides.
- Slots in base and clamping face.



403.283

Item No.	Dimensions *l* x *w* x *h*/mm	Weight kg	Flatness and squareness/µm	Slot width mm	Price EUR
Class 3, DIN 876/3, DIN 875/2:					
403.292	150 x 75 x 100	4	30	12	102.00
403.293	200 x 100 x 150	8	30	14	151.00
403.294	275 x 150 x 200	20	40	17	284.00
403.295	300 x 150 x 250	24	45	19	330.00
403.296	400 x 225 x 300	45	50	23	542.00
403.297	500 x 300 x 400	85	60	23	900.00
Class 1, DIN 876/2, DIN 875/1:					
403.286	150 x 75 x 100	4	15	12	145.00
403.287	200 x 100 x 150	8	15	14	235.00
403.288	275 x 150 x 200	20	20	17	396.00
403.289	300 x 150 x 250	24	22	19	492.00
403.290	400 x 225 x 300	45	25	23	834.00
403.291	500 x 300 x 400	85	30	23	1,361.00
Class 0, DIN 876/1, DIN 875/0:					
403.280	150 x 75 x 100	4	7	12	195.00
403.281	200 x 100 x 150	8	7	14	291.00
403.282	275 x 150 x 200	20	9	17	473.00
403.283	300 x 150 x 250	24	11	19	696.00
403.284	400 x 225 x 300	45	12	23	1,045.00
403.285	500 x 300 x 400	85	15	23	1,724.00

C07.272.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Cast iron angle plates

- Ground faces.
- With T-slots.
- Accuracy: flatness according DIN 876, squareness according DIN 875.



Dimensions *l* x *w* x *h*/mm	Weight kg	DIN 876/3 and 875/2 Item No.	Price EUR	DIN 876/2 and 875/1 Item No.	Price EUR	DIN 876/1 and 875/0 Item No.	Price EUR
150 x 75 x 100	6	403.264	141.00	403.261	179.00	403.267	221.00
200 x 100 x 150	11	403.276	193.00	403.273	267.00	403.270	317.00
275 x 150 x 200	24	403.265	352.00	403.262	450.00	403.268	519.00
300 x 150 x 250	33	403.277	443.00	403.274	626.00	403.271	827.00
400 x 225 x 300	54	403.266	669.00	403.263	918.00	403.269	1,117.00
500 x 300 x 400	105	403.278	1,130.00	403.275	1,542.00	403.272	1,852.00

Steel cylindrical squares

Ground and lapped steel cylinder for checking squareness e.g. during the acceptation process of machines and instruments. Out of roundness and straightness: ≤1.5 µm.



Item No.	Dimensions mm	Squareness p-p/µm	Price EUR
852.190	ø90 x 200	2	
852.191	ø90 x 250	2.2	
852.192	ø90 x 300	2.5	
852.193	ø90 x 350	2.8	
852.194	ø90 x 400	3	

Steel cylindrical squares

Ground and lapped steel cylinder for checking squareness.

- Out of roundness and straightness: ≤5 µm.
- Delivery in a wooden case with a manufacturer measuring report.

Item No.	Dimensions mm	Squareness p-p/µm	Price EUR
906.436	ø 80 x 200	3	281.00
906.437	ø 80 x 315	4	324.00
906.438	ø100 x 500	5	634.00
906.439	ø140 x 800	7	1,188.00



C07.208.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Granite squares

- Triangular model.
- Material: granite.
- Straight beveled edges.
- With weight-saving holes (except 402.120/126).
- Delivery in an aluminum carrying case (only height ≤ 400 mm) with a declaration of conformity.



Item No.	Dimensions $h \times w \times t$/mm	Squareness[1] µm	Flatness[2] µm	Weight kg	Price EUR
DIN 875/0:					
402.120	100 x 63 x 16	± 4	2	0.3	85.00
402.121	160 x 100 x 20	± 4	2	0.8	124.00
402.124	630 x 400 x 63	± 9	3	25.5	395.00
402.125[3]	1000 x 630 x 80	±12	5	102	770.00
DIN 875/00:					
910.437	100 x 63 x 16	± 2	1	0.3	117.00
910.438	160 x 100 x 20	± 2	1	0.8	169.00
910.439	250 x 160 x 25	± 2.5	1	2.4	190.00
910.440	400 x 250 x 40	± 3.5	1.2	7.5	349.00
910.441	630 x 400 x 63	± 4.5	1.5	25.5	562.00
910.442[3]	1000 x 630 x 80	± 6	2.5	102	999.00

[1] Squareness between measuring face and base.
[2] Flatness of measuring face and base.
[3] Weight included package.

Granite squares

- Square model.
- Material: granite.
- Straight beveled edges.
- With weight-saving holes.
- Delivery in an aluminum carrying case (only height ≤ 400 mm) with a declaration of conformity.

Item No.	Dimensions $h \times w \times t$/mm	Squareness µm[1]	Weight kg	Price EUR
Class 0:				
402.145	200 x 200 x 25	±4	2.6	254.00
402.146	250 x 250 x 30	±4.5	4.9	301.00
402.148	400 x 400 x 40	±6	14.5	564.00
402.149	500 x 500 x 50	±7	33	781.00
Class 00:				
910.443	200 x 200 x 25	±2	2.6	278.00
910.444	250 x 250 x 30	±2.2	4.9	326.00
910.445	315 x 315 x 30	±2.6	7.7	413.00
910.446	400 x 400 x 40	±3	14.5	649.00
910.447	500 x 500 x 50	±3.5	33	921.00

[1] Squareness between adjacent measuring faces.



402.148

C07.321.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Ceramic squares

- Made of alumina ceramics.
- Delivery in a wooden case.



908.721



908.745

Item No.	Dimensions *l* x *w* x *t*/mm	Flatness long measuring face/mm	Flatness short measuring face/mm	Squareness mm	Price EUR
Triangular, class A:					
908.719	160 x 100 x 20	0.002	0.001	0.004	215.00
908.720	250 x 160 x 25	0.002	0.002	0.005	614.00
908.721	400 x 250 x 40	0.0025	0.002	0.007	1,382.00
908.722	630 x 400 x 63	0.003	0.0025	0.009	2,300.00
Triangular, class AAA:					
908.726	250 x 160 x 25	0.0005	0.0005	0.0025	776.00
908.727	400 x 250 x 40	0.0005	0.0005	0.0035	1,714.00
908.728	630 x 400 x 63	0.0008	0.0005	0.0045	2,910.00

Item No.	Dimensions *l* x *w* x *t* mm	Flatness measuring faces/mm	Squareness measuring faces/mm	Squareness side faces/mm	Parallelism measuring faces/mm	Parallelism side faces/mm	Price EUR
Rectangular, class A:							
908.742	200 x 200 x 25	0.0018	0.004	0.04	0.004	0.096	614.00
908.745	400 x 400 x 40	0.0026	0.006	0.06	0.006	0.144	1,505.00
Rectangular, class AAA:							
908.782	300 x 300 x 30	0.0006	0.0013	0.013	0.0013	0.031	1,326.00

Ceramic parallels in pairs

Parallels to position and layout workpieces in for example clamping jaws for drilling, grinding, milling and measuring.

- Made of alumina ceramics.
- Delivery in a wooden case.



Item No.	Dimensions *l* x *w* x *h*/mm	Flatness measuring faces/mm	Parallelism measuring faces/mm	Squareness mm	Height difference/mm	Price EUR
Class A:						
908.733	400 x 63 x 40	0.008	0.008	0.030	0.008	1,455.00

Ceramic straight edge

- Made of alumina ceramics.
- Delivery in a wooden case.



Item No.	Dimensions *l* x *w* x *h*/mm	Flatness measuring faces/mm	Parallelism measuring faces/mm	Squareness mm	Price EUR
Class AAA:					
908.789	400 x 60 x 25	0.0016	0.0024	0.008	679.00

C07.315.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Flat steel squares

- Lapped measuring faces.
- Accuracy according DIN 875.



670.003

Item No.	Dimensions mm	Cross-section/mm	Price EUR
Class III:			
670.061	100 x 70	20 x 5	6.00
670.065	300 x 175	35 x 7	17.90
670.067	500 x 250	40 x 8	40.00
DIN 875/2:			
670.041	75 x 50	15 x 5	7.20
670.042	100 x 70	20 x 5	8.10
670.043	150 x 100	25 x 5	10.40
670.044	200 x 130	30 x 6	14.20
670.045	250 x 165	35 x 7	18.00
670.046	300 x 175	35 x 7	24.00
670.047	400 x 200	35 x 7	
670.048	500 x 250	40 x 8	
670.049[1]	600 x 300	40 x 8	
670.051[1,2]	1000 x 500	50 x 10	

Item No.	Dimensions mm	Cross-section/mm	Price EUR
DIN 875/1:			
670.022	75 x 50	15 x 5	8.50
670.023	100 x 70	20 x 5	10.00
670.024	150 x 100	25 x 5	12.20
670.025	200 x 130	30 x 6	16.90
670.026	250 x 165	35 x 7	23.40
670.027	300 x 200	40 x 8	34.30
670.028	400 x 265	45 x 10	
670.029	500 x 330	50 x 10	
670.030[1]	600 x 400	50 x 10	
DIN 875/0 (with inspection report):			
670.002	75 x 50	15 x 5	12.90
670.003	100 x 70	20 x 5	17.80
670.004	150 x 100	25 x 5	21.10
670.005	200 x 130	30 x 6	34.30
670.006	250 x 165	35 x 7	
670.007	300 x 200	40 x 8	
670.008	400 x 265	45 x 10	
670.009	500 x 330	50 x 10	

[1] Incl. transport package.
[2] Delivery ex Groningen, Netherlands.

C07.210.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Flat stainless steel squares

Item No.	Dimensions mm	Cross-section/mm	Price EUR
DIN 875/2:			
670.145	200 x 130	30 x 6	19.40
DIN 875/1:			
670.122	75 x 50	15 x 5	9.90
670.123	100 x 70	20 x 5	12.60
670.124	150 x 100	25 x 5	17.60
670.125	200 x 130	30 x 6	25.90
670.126	250 x 165	35 x 7	46.00
670.127	300 x 200	40 x 8	61.00
670.128	400 x 265	45 x 10	
670.129	500 x 330	50 x 10	
670.130[1]	600 x 400	50 x 10	
DIN 875/0, hardened (with inspection report):			
670.751	50 x 40	12 x 5	17.50
670.752	75 x 50	15 x 5	28.10
670.753	100 x 70	20 x 5	35.40
670.754	150 x 100	25 x 5	45.00
670.755	200 x 130	30 x 6	65.00
670.758	250 x 165	35 x 7	
670.759	300 x 200	40 x 8	
670.760	400 x 265	45 x 10	
670.761	500 x 330	50 x 10	

[1] Incl. transport package.

- Hardened stainless steel.
- Lapped measuring faces.
- Accuracy according DIN 875.



670.753

All squares can be delivered with an inspection report or a certificate of an acknowledged measuring laboratory.

For the larger squares it is important to realize that external factors affect the stability of squares, which may influence the accuracy unfavourably.

Wooden cases for squares

Wooden cases for flat squares.



670.885

Item No.	Dimensions square/mm	Price EUR
670.465	50 x 40 / 75 x 50 / 100 x 70	10.40
670.466	150 x 100	13.00
670.885	150 x 100 / 200 x 130	16.40
670.467	200 x 130	16.20
670.468	250 x 165 / 300 x 200	38.90
670.887	250 x 165 / 300 x 200	54.00
670.470	500 x 330	76.00

C07.211.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Flat stainless steel squares

- Hardened stainless steel.
- Lapped measuring faces.
- Accuracy according DIN 875.

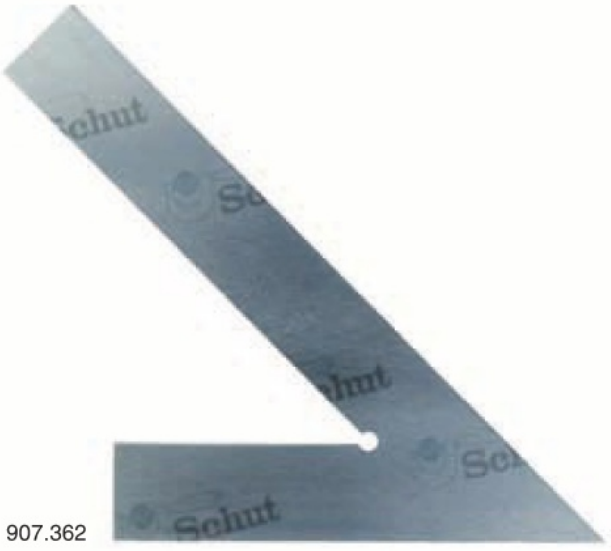
Item No.	Dimensions mm	Cross-section/mm	Price EUR
DIN 875/1:			
907.301	75 x 50	15 x 5	9.50
907.302	100 x 70	20 x 5	12.00
907.303	150 x 100	25 x 5	16.00
907.304	200 x 130	30 x 6	23.90
907.305	250 x 160	35 x 7	31.20
907.306	300 x 200	40 x 8	42.00
DIN 875/0:			
907.282	50 x 40	12 x 3.5	14.10
907.283	75 x 50	15 x 5	14.80
907.284	100 x 70	20 x 5	17.90
907.285	150 x 100	25 x 7	24.50
907.286	200 x 130	30 x 7	31.80



907.284

PRICE

Flat steel squares



907.362



907.409

PRICE

Item No.	Dimensions mm	Cross-section/mm	Price EUR
Acute angle squares 45°, DIN 875/2:			
907.359	100 x 70	20 x 5	11.50
907.360	120 x 80	20 x 5	12.30
907.361	150 x 100	20 x 5	15.80
907.362	200 x 130	25 x 5	17.40
Acute angle squares 60°, DIN 875/2:			
907.383	100 x 70	20 x 5	11.50
907.384	120 x 80	20 x 5	13.10
907.385	150 x 100	20 x 5	15.10
907.386	200 x 130	25 x 5	17.60
Hexagon squares 120°, DIN 875/2:			
907.407	50 x 50	15 x 5	9.20
907.408	75 x 75	18 x 5	11.00
907.409	100 x 100	20 x 5	13.90
907.410	150 x 150	25 x 5	17.90
907.411	200 x 200	30 x 6	20.30
Octagon squares 135°, DIN 875/2:			
907.417	50 x 50	15 x 5	12.60
907.418	75 x 75	18 x 5	14.80
907.419	100 x 100	20 x 5	17.40
907.420	150 x 150	25 x 5	22.50
907.421	200 x 200	30 x 6	26.20

C07.306.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Steel squares with base

- Lapped measuring faces.
- Accuracy according DIN 875.



670.203

Item No.	Dimensions mm	Cross-section/mm	Price EUR
Class III:			
670.265	300 x 175	35 x 7	24.80
DIN 875/2:			
670.241	75 x 50	15 x 5	9.60
670.242	100 x 70	20 x 5	11.20
670.243	150 x 100	25 x 5	16.50
670.244	200 x 130	30 x 6	20.10
670.245	250 x 165	35 x 7	26.60
670.246	300 x 175	35 x 7	34.50
670.247	400 x 200	35 x 7	
670.248	500 x 250	40 x 8	
670.249[1]	600 x 300	40 x 8	
670.250[1]	750 x 375	45 x 10	
670.251[1,2]	1000 x 500	50 x 10	

Item No.	Dimensions mm	Cross-section/mm	Price EUR
DIN 875/1:			
670.222	75 x 50	15 x 5	11.00
670.223	100 x 70	20 x 5	13.30
670.224	150 x 100	25 x 5	20.10
670.225	200 x 130	30 x 6	25.10
670.226	250 x 165	35 x 7	34.80
670.227	300 x 200	40 x 8	45.00
670.228	400 x 265	45 x 10	
670.229	500 x 330	50 x 10	
670.230[1]	600 x 400	50 x 10	
DIN 875/0 (with inspection report):			
670.202	75 x 50	15 x 5	22.90
670.203	100 x 70	20 x 5	25.80
670.204	150 x 100	25 x 5	34.90
670.205	200 x 130	30 x 6	50.00
670.206	250 x 165	35 x 7	
670.207	300 x 200	40 x 8	
670.208	400 x 265	45 x 10	
670.209	500 x 330	50 x 10	

[1] Incl. transport package.
[2] Delivery ex Groningen, Netherlands.

C07.212.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Stainless steel squares with base

Item No.	Dimensions mm	Cross-section/mm	Price EUR
DIN 875/2:			
670.343	100 x 70	20 x 5	16.80
670.347	300 x 200	40 x 8	56.00
DIN 875/1:			
670.322	75 x 50	15 x 5	17.30
670.323	100 x 70	20 x 5	22.00
670.324	150 x 100	25 x 5	33.50
670.325	200 x 130	30 x 6	44.00
670.326	250 x 165	35 x 7	59.00
670.327	300 x 200	40 x 8	70.00
670.328	400 x 265	45 x 10	
670.329	500 x 330	50 x 10	
670.330[1]	600 x 400	50 x 10	
DIN 875/0, hardened (with inspection report):			
670.851	50 x 40	12 x 5	26.50
670.852	75 x 50	15 x 5	31.30
670.853	100 x 70	20 x 5	33.90
670.854	150 x 100	25 x 5	53.00
670.855	200 x 130	30 x 6	87.00
670.762	250 x 165	35 x 7	
670.763	300 x 200	40 x 8	
670.764	400 x 265	45 x 10	
670.765	500 x 330	50 x 10	

[1] Incl. transport package.

- Hardened stainless steel.
- Lapped measuring faces.
- Accuracy according DIN 875.



670.323

All squares can be delivered with an inspection report or a certificate of an acknowledged measuring laboratory.

For the larger squares it is important to realize that external factors affect the stability of squares, which may influence the accuracy unfavourably.

Wooden cases for squares

Wooden cases for squares with base.



670.885

Item No.	Dimensions square/mm	Price EUR
670.465	50 x 40 / 75 x 50 / 100 x 70	10.40
670.884	150 x 100	14.00
670.885	150 x 100 / 200 x 130	16.40
670.887	250 x 165 / 300 x 200	54.00
670.888	400 x 265	62.00
670.889	500 x 330	115.00

C07.213.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Stainless steel squares with base

- Hardened stainless steel.
- Lapped measuring faces.
- Accuracy according DIN 875.

Item No.	Dimensions mm	Cross-section/mm	Price EUR
DIN 875/1:			
907.287	75 x 50	15 x 5	11.40
907.288	100 x 70	20 x 5	15.70
907.289	150 x 100	25 x 5	19.70
907.290	200 x 130	30 x 6	37.10
907.291	250 x 160	35 x 7	49.00
907.292	300 x 200	40 x 8	64.00
DIN 875/0:			
907.272	50 x 40	12 x 5	18.70
907.273	75 x 50	15 x 5	19.40
907.274	100 x 70	20 x 5	24.10
907.275	150 x 100	25 x 5	34.20
907.276	200 x 130	30 x 6	46.00



907.274



Steel squares with base


907.368


907.429

Schut



Item No.	Dimensions mm	Cross-section/mm	Price EUR
Acute angle squares 45°, DIN 875/2:			
907.365	100 x 70	20 x 5	15.70
907.366	120 x 80	20 x 5	14.80
907.367	150 x 100	20 x 5	23.80
907.368	200 x 130	25 x 5	25.10
Acute angle squares 60°, DIN 875/2:			
907.389	100 x 70	20 x 5	14.00
907.390	120 x 80	20 x 5	14.80
907.391	150 x 100	20 x 5	17.60
907.392	200 x 130	25 x 5	25.10
Mitre squares 135°, DIN 875/2:			
907.427	100 x 70	20 x 5	13.40
907.428	120 x 80	20 x 5	14.80
907.429	150 x 100	20 x 5	18.50
907.430	200 x 130	25 x 5	23.30

C07.307.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Hardened stainless steel squares with heavy beam

- Hardened stainless steel.
- Lapped measuring faces.
- Accuracy according DIN 875/00.



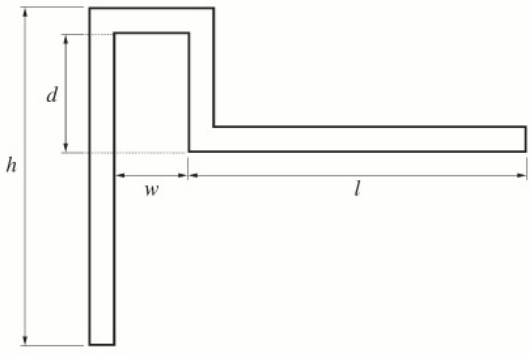
670.604

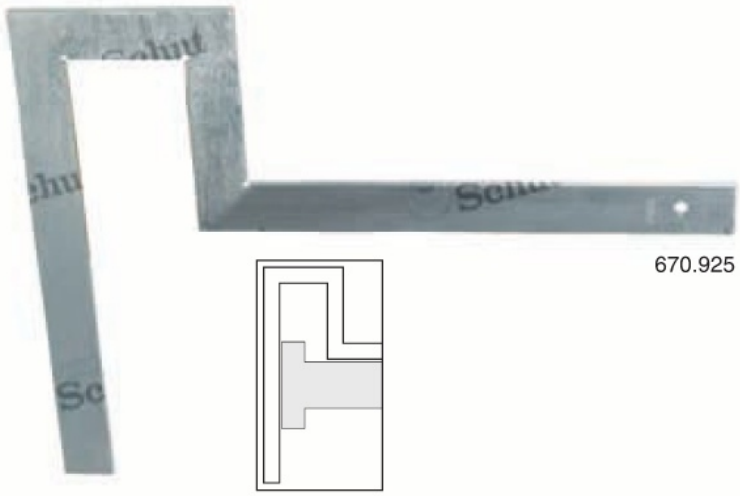
Item No.	Dimensions mm	Cross-section/mm	Price EUR
With knife-edges (DIN 875/00):			
670.601	50 x 40	14 x 10 / 16 x 2	58.00
670.602	75 x 50	14 x 10 / 18 x 2	79.00
670.603	100 x 70	16 x 10 / 18 x 2	90.00
670.604	150 x 100	20 x 12 / 22 x 2	105.00
670.605	200 x 130	24 x 14 / 26 x 3	127.00

Flange squares

Special fitter's square. For instance for accurate alignment of flanges.

- Material: steel, galvanised.
- Cross-section: 30 x 5 mm.




670.925

Item No.	Dimensions/mm				Max. deviation from squareness of test surfaces/mm	Max. deviation from flatness of test surfaces/mm	Price EUR
	l	*h*	*w*	*d*			
670.925	300	300	65	105	0.3	0.12	20.10
670.926	400	400	65	115	0.3	0.12	23.80
670.927	500	500	70	125	0.4	0.16	29.30

C07.214.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Adjustable squares

Precise base with sliding straight edge. The straight edge can be moved continuously along the base and can be firmly clamped by the spindle. All measuring faces are ground and the complete square is hardened. The adjustable straight edge enables working with for instance short edges and grooves.



907.874

PRICE

Item No.	Dimensions straight edge/mm	Dimensions base/mm	Price EUR
907.874	60 x 4 x 4	23 x 40 x 10	89.00
909.407	125 x 8 x 8	30 x 75 x 12	169.00

Squares with heavy beam

- Hardened stainless steel.
- Lapped measuring faces.
- Accuracy according DIN 875/0.


907.264

PRICE

Item No.	Dimensions mm	Cross-section/mm	Price EUR
907.262	50 x 40	14 x 10 / 16 x 2	37.40
907.263	75 x 50	14 x 10 / 16 x 2	43.00
907.264	100 x 70	18 x 12 / 20 x 3	46.00
907.265	150 x 100	24 x 14 / 25 x 3	58.00
907.266	200 x 130	28 x 16 / 30 x 4	70.00

Squares with heavy beam and knife-edges

- Hardened stainless steel.
- Lapped measuring faces.
- Accuracy according DIN 875/00.


907.247

PRICE

Item No.	Dimensions mm	Cross-section/mm	Price EUR
907.245	50 x 40	14 x 10 / 16 x 2	29.70
907.246	75 x 50	14 x 10 / 16 x 2	33.20
907.247	100 x 70	18 x 12 / 20 x 3	38.80
907.248	150 x 100	24 x 14 / 25 x 3	45.00
907.249	200 x 130	28 x 16 / 30 x 4	75.00

C07.304.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Beveled edge squares

- Hardened stainless steel.
- Lapped measuring faces.
- Accuracy according DIN 875/00.



Item No.	Dimensions mm	Cross-section/mm	Price EUR
907.250	50 x 40	12 x 4	17.10
907.251	75 x 50	16 x 4	19.80
907.252	100 x 70	20 x 5	24.20
907.253	150 x 100	25 x 6	37.50
907.254	200 x 130	30 x 7	49.00


907.252

Beveled edge squares

- Hardened steel.
- Ground and lapped measuring faces.
- Accuracy according DIN 875/00.


670.435

Item No.	Dimensions/mm	Price EUR
Bright steel:		
670.403	50 x 40	24.10
670.404	75 x 50	28.10
670.405	100 x 70	32.90
670.406	150 x 100	46.00
670.407	200 x 130	63.00
Stainless steel:		
670.433	50 x 40	26.70
670.434	75 x 50	30.50
670.435	100 x 70	36.40
670.436	150 x 100	51.00
670.437	200 x 130	74.00

Toolmakers' set

Consisting of:
– 1 beveled straight edge: 100 mm,
– 1 flat beveled edge square: 75 x 50 mm,
– 1 flat beveled edge square: 40 x 28 mm,
– 1 flat beveled edge square: 25 x 20 mm,
– 1 scriber: 8 x 8 x 60 mm.



Item No.	Description	Price EUR
852.201	Toolmakers' set	117.00

C07.320.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Toolmakers' squares

- Hardened stainless steel.
- Lapped measuring faces.
- Accuracy according DIN 875/00.



907.256

PRICE

Item No.	Dimensions mm	Cross-section/mm	Price EUR
907.255	25 x 20	6 x 3.5 / 5 x 3.5	14.90
907.256	40 x 28	8 x 3.5 / 5 x 3.5	15.90

Toolmakers' squares

Flat beveled edge squares, with the knife-edge on the inside.

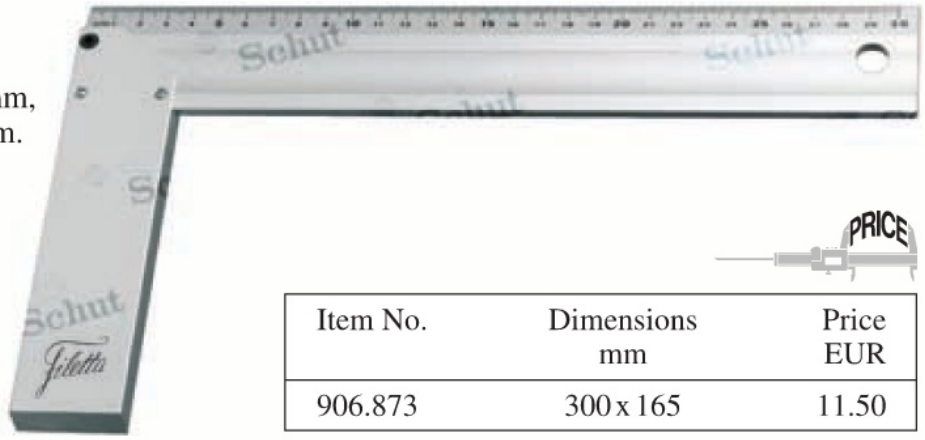

852.222

852.223

Item No.	Dimensions mm	Angle	Price EUR
852.220	25 x 20	90°	31.40
852.222	40 x 28	90°	32.10
852.223	40 x 28	89°30'	
852.224	40 x 28	90°30'	

Aluminum square with graduation

- Measuring range: 0 - 300 mm.
- Graduation: 1 mm.
- Anodized aluminum.
- With base for scribing lines in 90° and 45°.
- Cross-section base: 40 x 14 mm, Cross-section ruler: 50 x 5 mm.



PRICE

Item No.	Dimensions mm	Price EUR
906.873	300 x 165	11.50

C07.305.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

TESA Micro-Square 350/600

The TESA Micro-Square is a robust perpendicularity measuring instrument to measure the squareness of your squares and workpieces quickly and with high precision. The holder can be set to the correct height by hand, after which the deviation can be read by means of a lever-type dial test indicator. The lever-type dial test indicator can be placed on the Micro-Square by means of a fixing shaft with dovetail joint. With the GT31 analog probe and the TWIN-T10 display, it is possible to read the measured values digitally. The data can also be sent to a PC by means of the (wireless) TESA Link Connector and the free TESA DATA VIEWER PC software.

- Measuring range: Micro-square 350: 360 mm,
  Micro-square 600: 610 mm.
- Repeatability: 0.5 µm.
- Perpendicularity front:
  Micro-Square 350: ±1.5 µm,
  Micro-Square 600: ±2.4 µm.
- Weight: Micro-Square 350: 5.8 kg,
  Micro-Square 600: 7.7 kg.

TESA Micro-Square set
Standard supplied items:
– TESA dial test indicator GT31 (780.652),
– TESA TWIN-T10 (783.468),
– hex key 1.5 mm,
– SCS calibration certificate,
– manual.

NEW



783.640 + 783.652



783.653



783.654

Item No.	Description	Price EUR
783.654	TESA Micro-Square 350	
783.655	TESA Micro-Square 600	
783.640	TESA Micro-Square 350 set	
783.641	TESA Micro-Square 600 set	
Options:		
783.652	Base for positioning and clamping of squares	
783.653	Cylindrical probes for GT31 for use on e.g. beveled edge squares	
780.172	Fixing shaft ø8 x 12 mm	

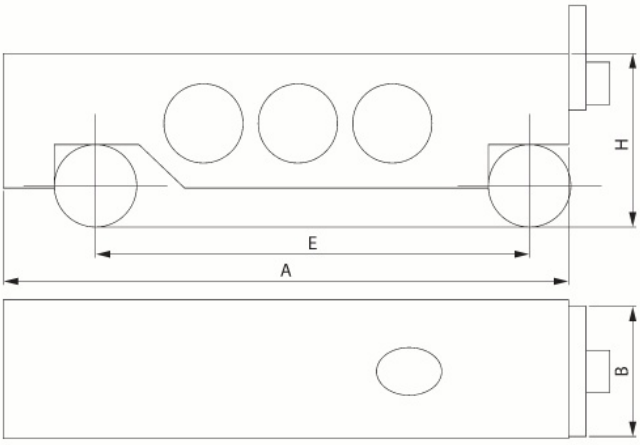
C07.316.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Sine bars

By means of a sine bar and with gauge blocks, a reference plane can be created at an angle of 0° to 60° with respect to the base. The base of the sine bar consists of two rollers with a center to center distance of 100 mm or 200 mm. In order to make a curve the gauge blocks are placed under one of the rollers.

- Straightness and parallelism: 5 µm.
- Surface roughness: Ra 0.8 µm.
- Delivery in a plastic case.





910.374
Delivery without gauge block and without clinometer.

NEW



910.375

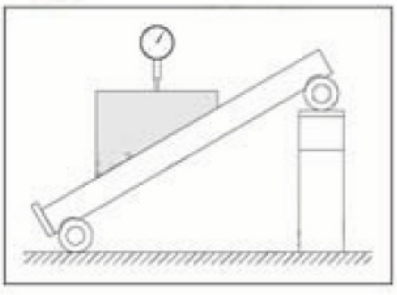
Item No.	A	B	H	E	Price EUR
910.374	130	30	40	100	142.00
910.375	230	30	40	200	251.00

Sine bar

By means of a sine bar and with gauge blocks, a reference plane can be created (l = 150 mm, w = 25 mm) at an angle of 0° to 60° with respect to the base. The base of the sine bar consists of two rollers with a center to center distance of 127 ± 0.004 mm. In order to make a curve the gauge blocks are placed under one of the rollers.

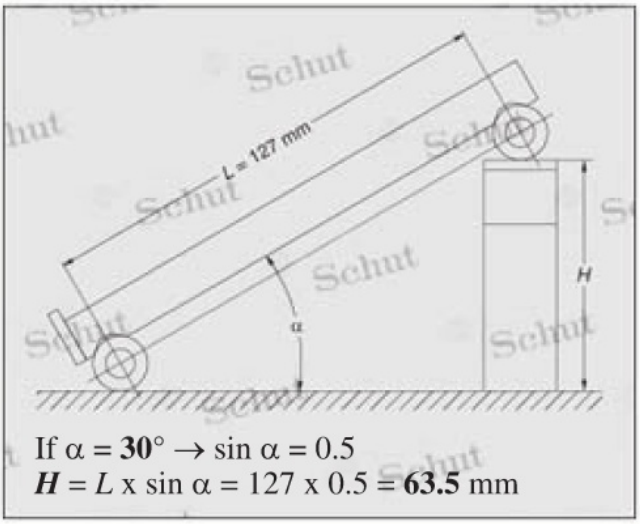
- Straightness and parallelism: 5 µm.





PRICE

Item No.	Description	Price EUR
909.417	Sine bar	61.00

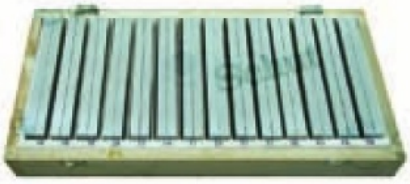


C07.317.EN.20230516

Steel parallel blocks

Parallels to position and layout workpieces in e.g. clamping jaws for drilling, grinding, milling and measuring. The workpieces and assemblies can easily be set up to the desired working height.

- Parallelism of the two measuring faces: ±0.005 mm.
- Size deviation (height): ±0.01 mm.
- Hardness: 55 HRC.
- Ground in matched pairs.
- Produced of a high-grade steel alloy.
- Delivery in a wooden case with a declaration of conformity.


906.996


(Only available in sets.)

Item No.	Length mm	Price EUR	Width mm	Height mm
Set of 12 pairs:				
909.800	100	85.00	10	14 - 16 - 18 - 20 - 22 - 24 - 26 - 28 - 30 - 32 - 35 - 40
909.804	125	99.00		
906.995	150	117.00		
Set of 14 pairs:				
909.802	100	92.00	10	14 - 16 - 18 - 20 - 22 - 24 - 26 - 28 - 30 - 32 - 35 - 40 - 45 - 50
909.805	125	117.00		
906.996	150	132.00		
Set of 24 pairs:			8	11 - 16 - 21 - 26 - 31 - 36
909.803	100	219.00	10	13 - 18 - 23 - 28 - 33 - 38
909.806	125	241.00	12	15 - 20 - 25 - 30 - 35 - 40
906.997	150	289.00	14	17 - 22 - 27 - 32 - 37 - 42

Adjustable parallel set

Set of 6 adjustable parallels. The parallels consist of 2 precisely ground tapered parts dovetailed together to ensure easy setting. These allow you to quickly clamp a workpiece in the correct position on a workbench, set a measuring instrument or check the internal dimensions of two parallel surfaces.







Parallel	Measuring range/mm	Measuring face length/mm
A	9.5 - 12.7	45
B	12.7 - 17.5	54
C	17.5 - 23.8	69
D	23.8 - 33.3	90
E	33.3 - 44.5	107
F	44.5 - 57.1	117

Item No.	Size/mm	Price EUR
910.400	9.5 - 57.1 mm	59.00

C09.311.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Granite parallels in pairs

Flatness, parallelism and straightness of measuring surfaces according DIN 874.

- Material: granite.
- Straight beveled edges.
- Delivery in an aluminum case with a declaration of conformity.



PRICE

Item No.	Flatness/ Parallelism µm[1]	Price EUR	Item No.	Flatness/ Parallelism µm[1]	Price EUR	Dimensions mm	Weight per pair kg
Class 0, 2-sided:			**Class 00, 2-sided:**				
402.104	± 3	140.00	402.112	±1.5	154.00	160 x 25 x 16	0.5
			402.113	±2	201.00	250 x 40 x 25	1.6
402.106	± 8	277.00	402.114	±4	311.00	400 x 63 x 40	6.5
			402.115	±6	505.00	630 x 100 x 63	24.7
Class 0, 4-sided:			**Class 00, 4-sided:**				
402.100	± 3	163.00	910.448	±1.5	213.00	160 x 25 x 16	0.5
402.101	± 4	211.00	910.449	±2	266.00	250 x 40 x 25	1.6
402.102	± 8	325.00	910.450	±4	356.00	400 x 63 x 40	6.5
402.103	±12	538.00	910.451	±6	666.00	630 x 100 x 63	24.7

[1] Flatness and parallelism between opposite surfaces.

Granite straight edges

Flatness, parallelism and straightness of measuring surfaces according DIN 874.

- From length 1000 mm equipped with two bores.
- Material: granite.
- Straight beveled edges.
- Delivery in an aluminum case with a declaration of conformity.



PRICE

Item No.	Dimensions mm	Weight kg	Straightness/ Flatness/µm	Parallelism µm	Price EUR
Class 0:					
402.135	400 x 60 x 25	2	±2.6	±13	215.00
402.137	1000 x 160 x 50	27	±5	±25	570.00
402.138[1]	1600 x 250 x 80	138	±7.4	±37	1,048.00
402.139[1]	2000 x 300 x 100	210	±9	±45	1,471.00
Class 00:					
910.452	400 x 60 x 25	2	±1.6	± 8	244.00
910.453	630 x 100 x 35	7	±2.1	±10.5	383.00
910.454	1000 x 160 x 50	27	±3	±15	733.00
910.455[1]	1600 x 250 x 80	138	±4.4	±22	1,141.00
910.456[1]	2000 x 300 x 100	210	±5.4	±27	1,619.00

[1] Weight included package.

Schut

C09.315.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Bright steel and stainless steel straight edges DIN 874

High quality wooden cases for straight edges are optionally available. Please see the wooden cases for straight edges section for these wooden cases.

- Length: 500 - 3000 mm.
- Class 0 and 1: rectangular cross-section up to length 1500 mm, from length 2000 mm I-shaped with two grip slots.
  Class 2: rectangular cross-section.
- Flatness of the measuring faces according DIN 874.
- Delivery with a manufacturer measuring report (the rectangular version has the manufacturer measuring report engraved on the straight edge).



Class	Dimensions/mm	Weight/kg	Item No.	Price EUR	Item No.	Price EUR
			Bright steel		**Stainless steel**	
DIN 874/0	500 x 50 x 10	2.0	776.569	76.00	776.590	132.00
	750 x 50 x 10	3.0	776.570	107.00	776.591	198.00
	1000 x 60 x 12	5.7	776.571	189.00	776.592	321.00
	1500 x 70 x 15	12.4	776.572	350.00	776.593	586.00
	2000 x 80 x 15	13.0	776.573*	643.00	776.594*	1,172.00
	2500 x 100 x 16	22.0	776.574*	945.00	776.595*	1,843.00
	3000 x 120 x 18	36.0	776.575*	1,418.00	776.596*	3,240.00
DIN 874/1	500 x 40 x 8	1.3	776.576	42.00	776.597	76.00
	750 x 50 x 10	3.0	776.577	74.00	776.598	137.00
	1000 x 50 x 10	4.0	776.578	87.00	776.599	198.00
	1500 x 60 x 12	8.4	776.579	165.00	776.600	397.00
	2000 x 70 x 15	12.0	776.580*	435.00	776.601*	869.00
	2500 x 80 x 15	17.0	776.581*	614.00	776.602*	1,143.00
	3000 x 100 x 16	26.0	776.582*	926.00	776.603*	2,030.00
DIN 874/2	500 x 30 x 6	0.7	776.583	26.50	776.604	53.00
	750 x 40 x 8	2.0	776.584	49.00	776.605	104.00
	1000 x 40 x 8	2.5	776.585	59.00	776.606	136.00
	1500 x 50 x 10	5.8	776.586	112.00	776.607	255.00
	2000 x 60 x 12	11.2	776.587	170.00	776.608	482.00
	2500 x 70 x 15	20.6	776.588	331.00	776.609	888.00
	3000 x 80 x 15	28.2	776.589	520.00	776.610	1,266.00

* I-shaped with two grip slots.

C09.308.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Bright steel and stainless steel straight edges DIN 874

High quality wooden cases for straight edges are optionally available. Please see the wooden cases for straight edges section for these wooden cases.

- Length: 500 - 4000 mm.
- Flatness of the measuring faces according DIN 874.
- Straight edges of length 1000 mm and longer are marked on the side face at the Bessel points.



776.232



776.124*


776.143

Class	Dimensions/mm	Item No.	Price EUR	Item No.	Price EUR
		Bright steel		**Stainless steel**	
DIN 874/0	1500 x 70 x 15	776.123	250.00	776.223	425.00
	2000 x 80 x 15	776.124*	448.00		
	2500 x 100 x 16	776.125*	660.00		
	3000 x 120 x 20	776.126*	960.00		
DIN 874/1	500 x 40 x 8	776.131	46.00		
	1000 x 50 x 10	776.132	81.00	776.232	
	1500 x 60 x 12	776.133	159.00		
	2000 x 70 x 15	776.134*	409.00		
	2500 x 80 x 15			776.235*	1,143.00
	3000 x 100 x 16	776.136*	745.00		
	4000 x 120 x 20	776.137*	1,167.00		
DIN 874/2	750 x 40 x 8			776.389	
	1000 x 40 x 8	776.143	55.00	776.380	90.00
	1500 x 50 x 10	776.144	109.00		
	2000 x 60 x 12	776.145	147.00		
	2500 x 70 x 15	776.146	274.00	776.383	595.00
	3000 x 80 x 15	776.147	357.00		
DIN 874/3	750 x 30 x 6			776.162	64.00
	1000 x 30 x 6			776.163	71.00
	1500 x 40 x 8			776.164	136.00
	2000 x 40 x 8	776.155	65.00	776.165	200.00
	2500 x 40 x 8	776.156	94.00	776.166	263.00
	3000 x 50 x 10			776.167	535.00

* I-shaped with two grip slots.

C09.307.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Aluminum straight edges

Light and therefore easy-to-use straight edges. Especially when using longer straight edges this is undoubtedly of great significance. High quality wooden cases for straight edges are optionally available. Please see the wooden cases for straight edges section for these wooden cases.

- Length: 500 - 3000 mm.
- I-shaped, from length 2000 mm with two grip slots.
- With protective coating, thickness: 50 µm ±5.
- Surface hardness: 500 - 550 HV.
- Highly wear resistant.
- Highly corrosion resistant.
- Highly insulating.
- Accuracy according DIN 874.
- Delivery with an inspection report.



776.618

Item No.	Dimensions mm	Weight kg	Price EUR
DIN 874/0:			
776.611	500 x 60 x 12	0.7	321.00
776.612	1000 x 60 x 12	1.4	605.00
776.613	1500 x 100 x 15	4.3	1,021.00
776.614*	2000 x 100 x 15	5.9	1,342.00
776.615*	2500 x 100 x 15	7.5	1,559.00
776.616*	3000 x 150 x 20	15.9	2,840.00

* With two grip slots.

Item No.	Dimensions mm	Weight kg	Price EUR
DIN 874/1:			
776.617	500 x 60 x 12	0.7	227.00
776.618	1000 x 60 x 12	1.4	510.00
776.619	1500 x 100 x 15	4.3	813.00
776.620*	2000 x 100 x 15	5.9	1,106.00
776.621*	2500 x 100 x 15	7.5	1,370.00
776.622*	3000 x 150 x 20	15.9	2,320.00
DIN 874/2:			
776.623	500 x 60 x 12	0.7	208.00
776.624	1000 x 60 x 12	1.4	454.00
776.625	1500 x 60 x 12	2.1	671.00
776.626*	2000 x 60 x 12	2.8	898.00
776.627*	2500 x 60 x 12	3.5	1,247.00
776.628*	3000 x 100 x 15	8.7	1,625.00

C09.309.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Aluminum straight edges

Light and therefore easy-to-use straight edges. Especially when using longer straight edges this is undoubtedly of great significance. High quality wooden cases for straight edges are optionally available. Please see the wooden cases for straight edges section for these wooden cases.

- Highly wear resistant.
- Highly corrosion resistant.
- Surface hardness: 500 - 550 HV.
- Highly insulating.
- With protective coating, thickness: 50 µm.
- With grip slots:
  class 2: from length 2500 mm,
  class 1 and 0: from length 1500 mm.
- Accuracy according DIN 874.



Item No.	Dimensions mm	Weight kg	Price EUR
DIN 874/2:			
776.193*	1500 x 60 x 12	2.1	517.00
776.194*	2000 x 60 x 12	2.8	689.00
776.196	3000 x 100 x 16	8.7	1,243.00
776.197	4000 x 100 x 16	11.6	1,660.00

Item No.	Dimensions mm	Weight kg	Price EUR
DIN 874/1:			
776.181*	500 x 60 x 12	0.7	191.00
776.188	5000 x 150 x 20	26.7	3,330.00
DIN 874/0:			
776.171*	500 x 60 x 12	0.7	227.00
776.172*	1000 x 60 x 12	1.4	463.00
776.175	2500 x 100 x 16	7.2	1,361.00

* Without grip slots.

Wooden cases for straight edges

Wooden cases of high quality with foam inlay for straight edges and rulers up to 2 meters.

Item No.	Inside dimensions *l* x *w* x *h*/mm	Price EUR
776.568	525 x 70 x 35	47.00
776.263	765 x 70 x 30	63.00
776.468	1025 x 80 x 35	70.00
776.561	1525 x 90 x 35	96.00
776.562	2025 x 95 x 30	135.00



776.568

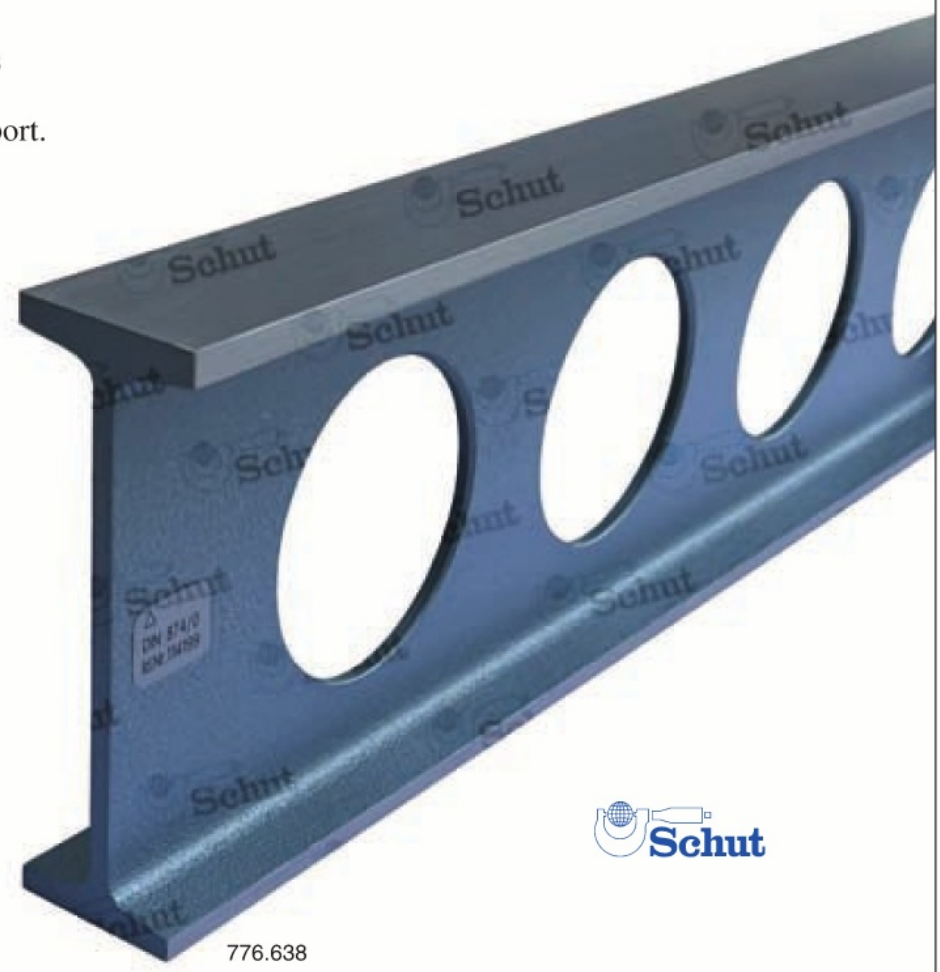
C09.312.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Steel straight edges for mounting

I-shaped construction with wide and extra wide measuring faces for application of spirit levels.

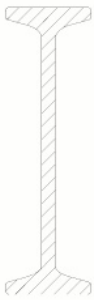
- Length: 500 - 4000 mm.
- Flatness of the measuring faces according DIN 874.
- Delivery with an inspection report.



776.638

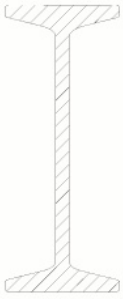
With wide measuring faces

Dimensions/mm	Weight/kg	Item No.	Price EUR	Item No.	Price EUR
		DIN 874/0		**DIN 874/1**	
1000 x 100 x 30	5.0	776.631	539.00	776.645	473.00
1500 x 100 x 30	7.5	776.632	699.00	776.646	643.00
2000 x 120 x 40	15.0	776.633	907.00	776.647	869.00
2500 x 120 x 40	19.0	776.634	1,247.00	776.648	1,181.00
3000 x 140 x 40	26.0	776.635	1,578.00	776.649	1,493.00



With extra wide measuring faces

Dimensions/mm	Weight/kg	Item No.	Price EUR	Item No.	Price EUR
		DIN 874/0		**DIN 874/1**	
500 x 80 x 40	2.0	776.636	435.00	776.650	369.00
750 x 80 x 40	3.5	776.637	491.00	776.651	416.00
1000 x 160 x 50	12.0	776.638	718.00	776.652	605.00
1500 x 160 x 50	18.0	776.639	992.00	776.653	832.00
2000 x 160 x 50	24.0	776.640	1,276.00	776.654	1,077.00
2500 x 160 x 50	30.0	776.641	1,748.00	776.655	1,370.00
3000 x 180 x 60	45.5	776.642	2,690.00	776.656	2,270.00



C09.310.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Steel straight edges for mounting

I-shaped construction with wide and extra wide measuring faces for application of spirit levels.

- Length: 500 - 4000 mm.
- Flatness of the measuring faces according DIN 874.



DIN 874/1

Item No.	Dimensions/mm	Price EUR
406.620	2000 x 120 x 40	676.00
406.630	3000 x 140 x 40	1,178.00
406.640	4000 x 140 x 40	1,700.00
With extra wide measuring faces:		
406.636	500 x 80 x 40	301.00
406.637	750 x 80 x 40	332.00
406.638	1500 x 160 x 50	657.00
406.643	2000 x 160 x 50	
406.644	2500 x 160 x 50	1,129.00
406.631	3000 x 180 x 60	1,774.00
Aluminum straight edge		
406.651*	1000 x 100 x 40	1,306.00

* Highly corrosion resistant and high insulation.

DIN 874/0

Item No.	Dimensions/mm	Price EUR
406.613	1000 x 100 x 30	431.00
406.626	2500 x 120 x 40	1,020.00
With extra wide measuring faces:		
406.627	750 x 80 x 40	377.00
406.616	1500 x 160 x 50	770.00

Cast iron straight edges with handles

Especially suitable for measuring small surfaces.

- Tension free.
- Flatness and parallelism according DIN 876.
- DIN 876/1: hand scraped, DIN 876/0: fine scraped.
- Both measuring faces are flat and parallel matched in pairs.



Dimensions *l* x *w*/mm	Weight approx./kg	DIN 876/1 Item No.	DIN 876/1 Price EUR	DIN 876/0 Item No.	DIN 876/0 Price EUR
500 x 35	12	403.705	251.00	403.700	330.00
750 x 50	17	403.706	396.00	403.701	502.00
1000 x 56	25	403.707	633.00	403.702	751.00
1500 x 70	65	403.708	1,255.00		
2000 x 80	90			403.704	2,480.00

C09.313.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Bridge-type straight edges

Made of special close-grained cast iron.

- Tension free.
- Flatness according DIN 876:
  class 1: hand scraped,
  class 0: fine scraped.



Item No.	*l* x *w* mm	Weight kg	Flatness µm	Price EUR
DIN 876/1:				
403.658	500 x 40	6	15	212.00
403.659	750 x 45	9	18	235.00
403.680	1000 x 50	17	20	424.00
403.690	1500 x 60	45	25	904.00
403.692	2000 x 70	65	30	1,376.00
403.698	3000 x 90	210	40	2,660.00
DIN 876/0:				
403.657	500 x 40	6	6	255.00
403.660	750 x 45	9	7	276.00
403.679	1000 x 50	17	8	521.00
403.691	1500 x 60	45	10	1,155.00
403.696	2000 x 70	65	12	1,712.00
403.697	3000 x 90	210	16	3,050.00

Triangular straight edges

On two sides scraped, triangular straight edge with screwed-in handles. The edge between the scraped sides (45° or 60°) has been accurately processed. The third side has been ground, and recessed for weight reduction at the larger types (from 500 mm).

- Tension free.
- Flatness of both scraped sides according DIN 876:
  class 1: hand scraped,
  class 0: fine scraped.



Item No.	*l* x *w*/mm	Weight/kg	Price EUR
Triangular straight edge 45°, DIN 876/1:			
403.525	250 x 50	2	158.00
403.550	500 x 75	7	341.00
403.575	750 x 90	15	537.00
403.600	1000 x 120	27	806.00
Triangular straight edge 45°, DIN 876/0:			
403.524	250 x 50	2	213.00
403.549	500 x 75	7	425.00
403.574	750 x 90	15	640.00
403.599	1000 x 120	27	967.00
403.601	1500 x 120	48	1,480.00
Triangular straight edge 60°, DIN 876/1:			
403.425	250 x 45	3	171.00
403.450	500 x 60	6	322.00
403.475	750 x 90	16	512.00
403.500	1000 x 100	28	757.00
Triangular straight edge 60°, DIN 876/0:			
403.424	250 x 45	3	210.00
403.449	500 x 60	6	406.00
403.474	750 x 80	16	617.00
403.499	1000 x 100	28	941.00

C09.207.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Beveled straight edges

High quality wooden cases for straight edges are optionally available. Please see the wooden cases for straight edges section for these wooden cases.

- Straightness tolerance according DIN 874/00.
- Hardened and ground.
- Lapped measuring faces.
- With insulated grip over the entire length.
- Delivery in a soft case.



Item No.	Length/mm	Price EUR
Bright steel:		
772.075	75	12.20
772.100	100	13.50
772.125	125	16.00
772.150	150	18.30
772.200	200	23.60
772.300	300	45.00
772.400	400	71.00
772.500	500	104.00

Item No.	Length/mm	Price EUR
Stainless steel:		
772.076	75	15.80
772.101	100	18.60
772.126	125	20.30
772.151	150	25.10
772.201	200	29.50
772.301	300	57.00
772.401	400	100.00
772.501	500	138.00

Beveled straight edges

High quality wooden cases for straight edges are optionally available. Please see the wooden cases for straight edges section for these wooden cases.

- Straightness tolerance according DIN 874/00.
- Hardened and ground.
- Lapped measuring faces.
- With insulated grip over the entire length.
- Delivery in a soft case.





Item No.	Length/mm	Price EUR
Chrome finished steel:		
907.750	75	10.20
907.751	100	11.40
907.752	125	13.30
907.753	150	17.10
907.754	200	21.30
907.755	300	31.70
907.756	400	55.00
907.765	500	80.00
909.237	600	116.00

Item No.	Length/mm	Price EUR
Stainless steel:		
907.757	75	11.30
907.758	100	12.40
907.759	125	14.50
907.760	150	18.50
907.761	200	23.10
907.762	300	37.10
907.763	400	65.00
907.764	500	89.00
909.240	600	129.00

C09.208.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Protractors / Clinometers / Spirit levels



Accuracy of clinometers/spirit levels according DIN 877		
Graduation µm/m	Graduation "	Flatness (µm) (L = length in mm)
≤50	≤10	$4+L/250$
>50-200	>10-40	$8+L/125$
>200	>40	$16+L/60$

C08.001.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Universal digital bevel protractor

This digital bevel protractor displays both decimal degrees and degrees-minutes-seconds at the same time.

- Measuring range (switchable): 1x 360°, 2x 180°, 4x 90°.
- Resolution: 0.008° and 30".
- Accuracy: ±0.08° or ±5'.
- On/off switch.
- Reset/preset.
- Reversible measuring direction.
- Fine adjustment.
- Delivery in a wooden case with three blades (150, 200 and 300 mm), a square and an acute angle attachment.
- Power supply: 1 battery type CR2032.





Schut

PRICE

Item No.	Description	Price EUR
907.885	Bevel protractor	316.00
Option:		
495.157	Spare battery	0.40

Single blades

Item No.	Blade length/mm	Price EUR
909.380	150	6.90
909.381	200	9.20
909.382	300	11.70
909.383	500	18.10

C08.302.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Universal digital bevel protractors

Digital bevel protractors made of stainless steel, with blades of 150, 200 or 300 mm. The blades and all the measuring faces are hardened.

- Measuring range (switchable): 1x 360°, 2x 180°, 4x 90°.
- Resolution: 1', or decimal 0.01°.
- Accuracy: ±2'.
- Clamping spring system for blade.
- Indication switchable from degrees and minutes to decimal degrees.
- Automatic switch-off after 10 minutes of idle time with storage of the displayed measuring value.
- Proximity data output.
- Reset/preset/hold functions.
- Fine adjustment.
- Power supply: 1 battery type CR2032.



856.688

Complete bevel protractors

Item No.	Blade length/mm	Price EUR
856.688	150	1,018.00
856.689	200	1,029.00
856.690	300	1,039.00

Options:

495.157	Spare battery	0.40
856.694	Prism base	74.00
856.695	Ledge	57.00
840.666	Proximity USB cable (2 m)	235.00

Single blades

Item No.	Blade length/mm	Price EUR
856.685	150	45.00
856.693	200	56.00
856.687	300	60.00


856.694


856.695

C08.202.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Universal digital bevel protractor

This stainless steel, digital bevel protractor is available with blades from 150 to 1000 mm. The blades and all the measuring faces are hardened.

- Measuring range: ±360°.
- Resolution: 1', or decimal 0.01°.
- Accuracy: ±2'.
- Repeatability: 1'.
- Indication switchable from degrees and minutes to decimal degrees.
- + and - direction reversible.
- Per 90° adjustable.
- Data output, Mitutoyo Digimatic compatible.
- On/off switch.
- Reset/preset/hold functions.
- Control with 5 keys for several functions.
- Fine adjustment.
- Delivery in a wooden case without blade.
- Power supply: 1 battery type CR2032.



Item No.	Description	Price EUR
855.820	Bevel protractor	1,169.00
Options:		
495.157	Spare battery	0.40
905.409	Data cable 2 m	43.00

Single blades

Item No.	Blade length/mm	Price EUR
909.380	150	6.90
909.381	200	9.20
909.382	300	11.70
909.383	500	18.10
855.827	1000	403.00

C08.203.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Dial bevel protractor

- Measuring range: 4 x 90°.
- Graduation: 5'.
- Fine adjustment.
- Hardened stainless steel construction.
- Delivery in a plastic case with 300 mm blade and an acute angle attachment.



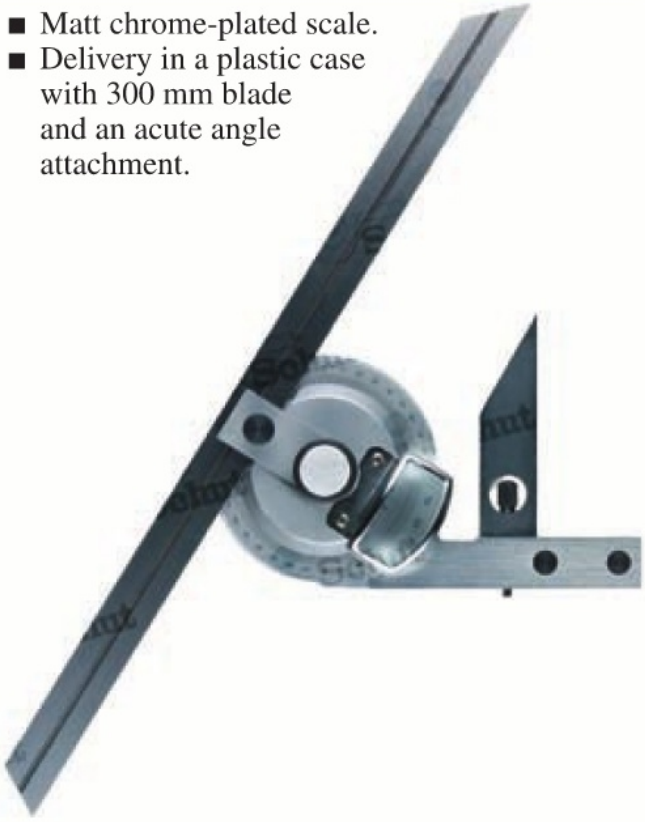
Item No.	Description	Price EUR
906.504	Bevel protractor	71.00

Single blades

Item No.	Blade length/mm	Price EUR
909.380	150	6.90
909.381	200	9.20
909.382	300	11.70
909.383	500	18.10

Bevel protractor with magnifier

- Measuring range: 4 x 90°.
- Vernier: 5', parallax-free.
- Hardened stainless steel construction.
- Matt chrome-plated scale.
- Delivery in a plastic case with 300 mm blade and an acute angle attachment.



Item No.	Description	Price EUR
906.502	Bevel protractor with magnifier	51.00
Option:		
906.505	Spare magnifier	6.80

Single blades

Item No.	Blade length/mm	Price EUR
909.380	150	6.90
909.381	200	9.20
909.382	300	11.70
909.383	500	18.10

C08.204.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Bevel protractor with magnifier

- Measuring range: 4 x 90°.
- Vernier: 5', parallax-free.
- Fine adjustment.
- Hardened stainless steel construction.
- Matt chrome-plated scale.
- Delivery in a wooden case with two blades (150 and 300 mm) and an acute angle attachment.



Item No.	Description	Price EUR
855.801	Bevel protractor with magnifier	335.00
Option:		
859.179	Spare magnifier	46.00

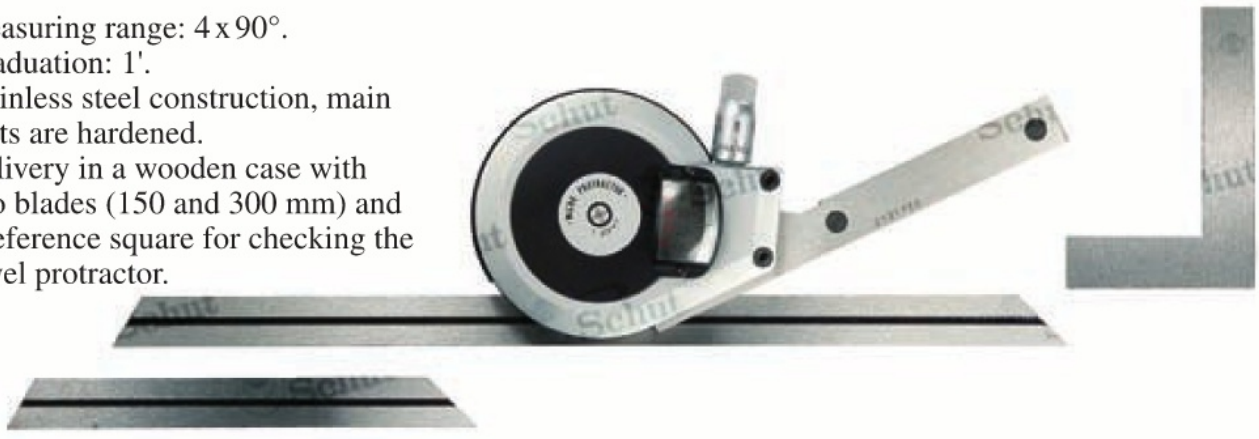
Single blades

Item No.	Blade length/mm	Price EUR
909.380	150	6.90
909.381	200	9.20
909.382	300	11.70
909.383	500	18.10

Universal bevel protractor

Universal bevel protractor with micrometer screw adjustment. One rotation of the screw corresponds to an angular change of 1°. Retraction of the micrometer screw enables fast adjustment of the blade and the scale.

- Measuring range: 4 x 90°.
- Graduation: 1'.
- Stainless steel construction, main parts are hardened.
- Delivery in a wooden case with two blades (150 and 300 mm) and a reference square for checking the bevel protractor.



Item No.	Description	Price EUR
855.811	Universal protractor with magnifier	1,005.00
Option:		
859.019	Spare magnifier	46.00

Single blades

Item No.	Blade length/mm	Price EUR
909.380	150	6.90
909.381	200	9.20
909.382	300	11.70
909.383	500	18.10

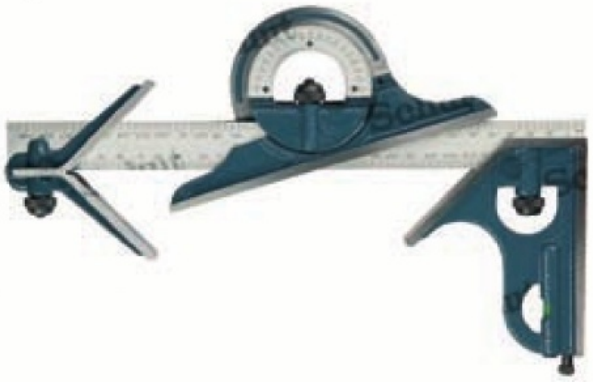
C08.205.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Combination bevel protractor

Can be used as bevel protractor, ruler, depth gauge, try square, center square and spirit level.

- Measuring range: 0 - 180° (90 - 0 - 90°).
- Graduation: 1°.
- Double graduation.
- Rotatable.
- Scriber (included in square head).
- Protractor head and square head provided with a spirit level.
- Ruler length: 300 mm.
- Delivery with protractor head, square head, center head, and ruler with mm/mm graduation.



PRICE

Item No.	Description	Price EUR
906.503	Combination bevel protractor	61.00

Combination bevel protractor

Stainless steel combination bevel protractor with blade and flat square.

- Measuring range: 0 - 320°.
- Measuring inside and outside angles.
- Accurate adjustment by rack railway.
- Vernier: 2'.
- Delivery in a plastic case.



PRICE

Item No.	Description	Price EUR
910.215	Combination bevel protractor	66.00

Bevel protractors

Simple and easy to use protractors with a semicircular or rectangular head and swivelling blade.

- Measuring range: 0 - 180°.
- Graduation: 1°.
- Scale diameter: 85 mm.
- Locking screw.
- Blade length: 150 mm.
- Hardened steel, matt chrome-plated.





Item No.	Shape	Price EUR
907.863	semicircular	22.40
909.399	rectangular	22.00

PRICE

C08.206.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital bevel protractors

- Measuring range: 0 - 180° (with swivelling blade) or 10 - 170° (with sliding blade).
- Graduation: 0.05°.
- Accuracy: 0.3°.
- On/off switch.
- Reset/hold function.
- Rotatable display value.
- Locking screw.
- Delivery in a plastic case.
- Power supply: 1 battery (CR2032).

Item No.	Scale ø/mm	Blade length/mm	Price EUR
With swivelling blade:			
906.457	120	150	65.00
906.458	150	200	70.00
906.459	200	300	85.00
With sliding blade:			
906.767	100	150	65.00
906.768	150	300	86.00
906.769	200	400	101.00
Option:			
495.157	Spare battery		0.40



906.457



906.767

C08.312.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Bevel protractors

- Measuring range: 0 - 180° (with swivelling blade) or 10 - 170° (with sliding blade).
- Graduation: 1°.
- Locking screw.
- Hardened steel, matt chrome-plated.
- Graduation placed by laser.


907.865


907.870

Item No.	Scale ø/mm	Blade length/mm	Price EUR
With swivelling blade:			
907.864	80	120	18.60
907.865	120	150	21.90
907.866	150	200	25.40
907.867	200	300	34.10
907.868	300	500	65.00
With sliding blade:			
907.869	100	150	31.40
907.870	150	300	36.00
907.871	200	400	44.00
907.872	250	500	67.00
907.873	300	600	76.00

Setting bevel

- Special steel.
- Moveable blade locked with a wing nut.


910.088

Item No.	Blade length/mm	Price EUR
910.088	200	12.60
910.089	300	17.40
910.090	500	21.90

Universal digital bevel protractor with spirit level

Digital bevel protractor for measuring both inside and outside angles. The measuring value is displayed upright at any time. Equipped with four holes and a locking knob for measuring a specific angle.

- Measuring range: 360°.
- Resolution: 0.05°.
- Accuracy: ±0.2°.
- ABS/INC switchable.
- With digital-analog display of the measured value.
- Reversal of display value.
- On/off switch.
- Hold function.
- Reversible measuring direction.
- Aluminum casing.
- Rotatable blade of metal.
- Dimensions: 254 x 50 x 36 mm.
- Power supply: 1 battery type CR2032.

Item No.	Description	Price EUR
909.503	Bevel protractor	55.00
Option:		
495.157	Spare battery	0.40



C08.207.EN.20230516

Universal digital bevel protractors

Digital bevel protractors for measuring both inside and outside angles. Equipped with a locking knob for measuring a specific angle.

- Measuring range: ±360°.
- Resolution: 0.1°.
- Accuracy: ±0.3°.
- On/off switch.
- Automatic switch-off.
- Zero setting at any position.
- Graduation rulers: 1 mm and 1/32 inch.
- Cross-section rulers: 35 x 2.5 mm.
- With fixing holes.
- Locking screw.
- Power supply: 1 battery type CR2032.



909.505



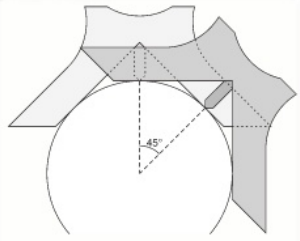
Item No.	Ruler length/mm	Price EUR
909.505	200	30.30
909.506	300	39.40
Option:		
495.157	Spare battery	0.40

Magnetic clinometer with center point finder

Accurate clinometer with an extremely sensitive, balanced needle. The magnetic base with 90° V-groove is precision milled. The center point finder can be used as a center punch.

Very suitable for angular measurements, surface alignment, and the determination of center points and highest/lowest points of cylindrical and spherical surfaces. Therefore ideal as a universal aid to the installation of larger constructions.

- Measuring range: 360°.
- Graduation: 1°.
- Scale numbering: 0 - 360.
- Aperture V-groove (horizontal): 82 mm (for shafts up to ø 115 mm).
- Dimensions *h* x *w* x *d*: 130 x 130 x 27 mm.



For marking angles on cylindrical and spherical surfaces.



856.702

Item No.	Scale numbering	Price EUR
856.702	0 - 360	332.00
Option:		
856.712	Center pin ø 12 x 125 mm	

C08.303.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital clinometer

- Measuring range: 0 - ±180°.
- Resolution: 0.1°.
- Accuracy: ±0.2°.
- Rotatable display.
- Automatic switch-off.
- Hold function.
- Reference measurement function.
- With digital-analog read-out of the vial.
- With magnetic base with V-groove.
- Dimensions: 60 x 56 x 33 mm.
- Power supply: 2 batteries type AAA.

Item No.	Description	Price EUR
906.427	Digital clinometer	41.00
Option:		
497.914	Spare battery (2 needed)	0.80







Digital clinometers

- Measuring range: ±180° (with external sensor: ±360°).
- Resolution: 0.1°.
- Accuracy 0 - 10°: ±0.1°, 10 - 170°: ±0.2°, 170 - 180°: ±0.1°.
- Repeatability: 0.1°.
- ABS/INC switchable (except 906.476).
- Automatic switch-off.
- Hold function (only 906.479).
- With magnetic base (906.476/479) or magnetic upper part (909.501/502).
- Dimensions: 51 x 51 x 33 mm (906.476 and 909.501/502).
- Power supply: 1 battery type CR2032.

Models with external sensor

- Accuracy 0 - 10°: ±0.1°, 10 - 350°: ±0.2°, 350 - 360°: ±0.1°.
- Sensor with mounting holes.
- Cable length: 1 m.
- Max. rotation speed: 600 rpm.



906.476



906.479


909.501


909.502

Item No.	Description	Price EUR
906.476	Standard model	47.00
906.479	With vial	58.00
909.501	With external sensor	79.00
909.502	With external sensor with axis ø6 mm	79.00
Option:		
495.157	Spare battery	0.40

C08.304.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital clinometer

Instrument for easy measurement of angles, flatness and squareness. All four sides are measuring faces. The measuring value is displayed upright at any time.

- Measuring range: 4 x 90°.
- Resolution: 0.1° (909.504: 0.05°).
- Accuracy 0 - 10°: ±0.1°,
  10 - 80°: ±0.2°,
  80 - 90°: ±0.1°.
- Repeatability: 0.1°.
- ABS/INC switchable.
- Large, easy-to-read LCD display.
- Automatic switch-off.
- Hold function.
- Blue backlight.
- Sound signal at stable value.
- °, mm/m, %, inch/ft conversion.
- Reference plane function.
- Measuring faces bottom- and upper-side with V-groove.
- With magnetic base (2 magnets).
- Protection: IP65.
- Dimensions *l* x *w* x *h*: 151 x 32 x 60 mm.
- Delivery in a soft case.
- Power supply: 2 batteries type AAA.





Item No.	Description	Price EUR
909.504	With V-grooves and magnetic base	76.00
Option:		
497.914	Spare battery type AAA (2 needed)	0.80

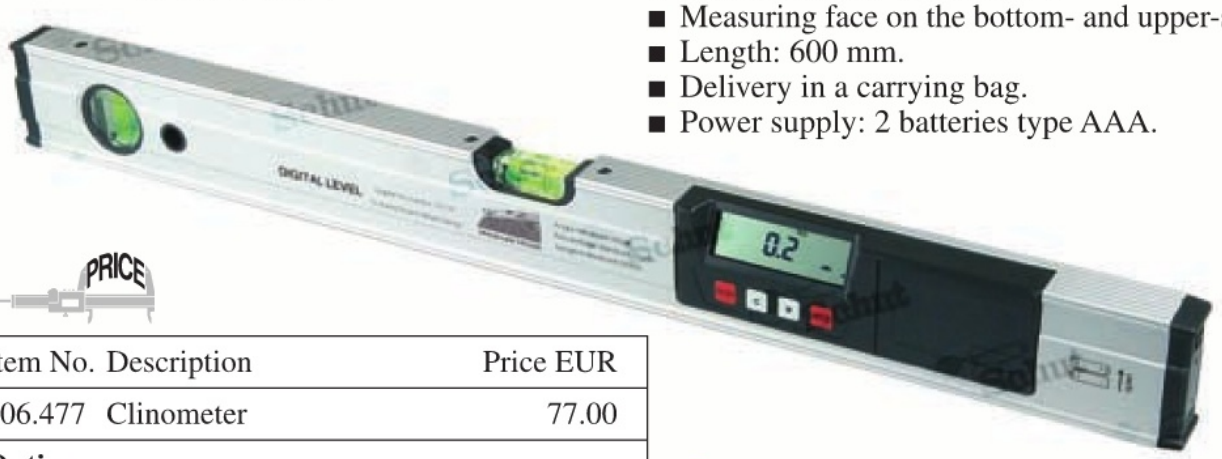
C08.308.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital clinometer

Instrument for easy measurement of inclination. Equipped with a horizontal and vertical vial. The measuring value is displayed upright at any time.

- Measuring range: 4 x 90°.
- Resolution: 0.1°.
- Accuracy 0 - 10°: ±0.1°,
  10 - 80°: ±0.2°,
  80 - 90°: ±0.1°.
- ° and % conversion.
- Large, easy-to-read LCD display.
- On/off switch.
- Hold function.
- Sound signal at: 0°, 45°, 90°.
- Measuring face on the bottom- and upper-side.
- Length: 600 mm.
- Delivery in a carrying bag.
- Power supply: 2 batteries type AAA.



906.477

PRICE

Item No.	Description	Price EUR
906.477	Clinometer	77.00
Option:		
497.914	Spare battery (2 needed)	0.80

Schut

Laser alignment tool

With this alignment tool you can precisely, quickly and easily project vertical, horizontal and crossed laserlines. Within a range of ±4° minor inclination errors are automatically compensated by means of the integrated spirit level, to level the projected horizontal line.

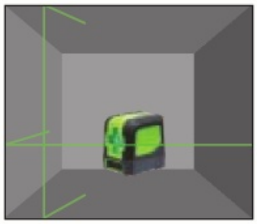
- Range: up to 30 m (dependent on the lighting conditions).
- Self-levelling range: 4°.
- Horizontal and vertical accuracy: ±4.5 mm / 15 m.
- Laser: 510 - 530 nm, class 2 conform to IEC 60825-1/2007.
- Lock function for projecting at an angle and transport protection.
- On/off switch.
- Dimensions: 74 x 64 x 75 mm.
- Weight: 270 g.
- Protection: IP54.
- Intake internal thread on the bottom-side: UNC 1/4"-20, thread depth: 8 mm.
- Delivery in a soft case including a plastic mounting bracket with 2 strong magnets.
- Power supply: 2 batteries type AA.

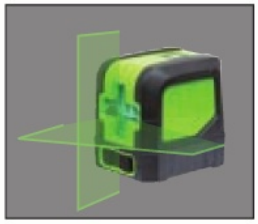
NEW



PRICE

Item No.	Description	Price EUR
910.369	Alignment tool	68.00
Option:		
495.111	Spare battery (2 needed)	0.70







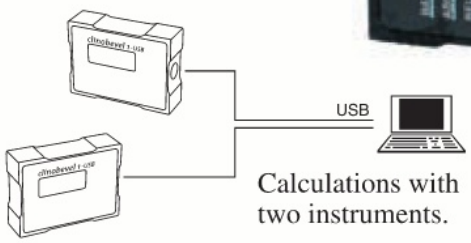
C08.314.EN.20230516

TESA Clinobevel 1-USB digital clinometer

The TESA Clinobevel 1-USB is a compact and universal clinometer with four measuring faces and a reinforced aluminum housing, resistant to workshop conditions. For a higher accuracy 21 correction values can be stored. The software can perform calculations with two instruments and export automatic reports.

- Measuring range: ±45°.
- Resolution: 0.025 mm/m (5").
- Accuracy: 2'+1 sd.
- USB data output.
- Read-out after approx. 1 s when idle.
- Dimensions: 100 x 75 x 30 mm.
- Protection: IP65.
- DIN 2276.
- Delivery in a plastic carrying case with a manufacturer measuring report, batteries, USB cable (1.8 m), software and user manual.
- Power supply: 4 batteries type AA.





Calculations with two instruments.

Read-out angles:
- degrees (2 or 4 decimals)
- degrees and minutes

Read-out inclination:
- mm/m (2 decimals)
- inch/10 inch or inch/12 inch (4 decimals)
- mm or inch/basis length (comparative mode)
- milliradians (whole or 2 decimals)
- gon (2 decimals)

Item No.	Type/description	Price EUR
781.545	Clinobevel 1-USB	2,178.00
783.624*	Clinobevel 1-USB	1,874.00
Options:		
495.111	Spare battery (4 needed)	0.70
783.625	USB cable (1.8 m)	333.00

* Without USB cable and software.

TESA Clinobevel 3 digital clinometer

The TESA Clinobevel 3 is a very accurate, robust and easy to use clinometer in cast iron or aluminum housing. Measuring values can be easily read from the clear LCD screen. Two sides are fitted with (optionally magnetic) measuring faces with a fine ground V-groove.
There are two models available:
– Measuring range: +/- 60° or +/- 1° (only available in the cast iron version),
– Resolution: 0,025 mm/m (60° model), 0,001 mm/m (1° model).







Bluetooth App USB

Ask for the detailed brochure

Especially suitable for calibration and measuring of straightness, flatness and squareness of high accuracy measuring and processing machines. For measurements in hard to reach places you can link the Clinobevel via bluetooth to the Android app and the readout will be displayed on your phone or tablet.

C08.211.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Clinometers

- Measuring range: 4 x 90°.
- Graduation: 1°.
- Dimensions: 100 x 15 x 100 mm.



857.302

Item No.	Description	Price EUR
857.302	Clinometer with removable base 100 mm	199.00
857.304	Base 200 mm	45.00
857.303	Clinometer with magnetic base 100 mm	275.00

Vernier clinometers

Clinometers with two ground bases with V-groove, or two flat magnetic bases. Vial holder with vernier and fine adjustment.

- Measuring range: 0 - 90°.
- Vernier: 10'.
- Graduation vial: 0.3 mm/m ≅ 1'.
- Dimensions: 150 x 39 x 150 mm.


857.301



857.300

Item No.	Description	Price EUR
857.300	Bases with V-groove	589.00
857.301	Flat magnetic bases	740.00

Clinometer

- Measuring range: 4 x 90°.
- Graduation: 1°.
- Graduation vial: 2 - 5 mm/m.
- Flat base: 300 x 25 mm.
- With mounting holes.



Item No.	Description	Price EUR
853.669	Clinometer	326.00

Clinometer

To determine inclinations accurately. Fine-tuning by means of a screw thread spindle, which, to ensure a quick tuning, can be disconnected by pressing the button on the micrometer.

- Measuring range: ± 180°.
- Read-out in degrees and minutes.
- Scale numbering black clockwise, red counterclockwise.
- Graduation vial: 0.3 mm/m ≅ 1'.
- Hardened and ground base, with V-groove.
- Base dimensions: 150 x 30 mm.
- Height: 124 mm.



Item No.	Description	Price EUR
857.310	Clinometer	1,116.00

C08.215.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital inspection spirit level and digital frame spirit level

Accurate digital spirit levels in a high grade cast iron housing with fine ground measuring surfaces. The measuring value can be displayed in an App on an Android or Apple phone via Bluetooth.

- Measuring range: ±15°.
- Graduation: 0.02 mm/m.
- Accuracy according to DIN 2276-2: 0.0015° or 0.04%H (H=Measured value).
- Measuring units: 13; e.g. mm/m, mm/200 or mm/150, inch/ft, °, %.
- ABS/INC switchable.
- Hold function.
- Color display with backlight.
- Temperature compensation.
- Semi-automatic calibration.
- Remote display by Bluetooth.
- Measuring surfaces fine ground: inspection spirit level: base with V-groove, frame spirit level: 3 faces with V-groove and 1 flat face.
- Dimensions: inspection spirit level: 200 x 47 x 42 mm, frame spirit level: 150 x 150 x 42 mm.
- Weight: inspection spirit level: 3.4 kg, frame spirit level: 4.4 kg.
- DIN 877 and DIN 2276-2.
- Delivery in a plastic case with an AC adapter.



853.600



853.651

Item No.	Description	Price EUR
853.600	Digital inspection spirit level	2,950.00
853.651	Digital frame spirit level	3,160.00

C08.313.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Inspection spirit levels

- Graduation main vial: 0.01 - 0.3 mm/m.
- With cross test vial.
- Base with V-groove.
- Base width: 42 mm
  (spirit levels with length 500 mm: 44 mm).
- DIN 877.
- Delivery in a plastic case or wooden case.

Item No.	Length mm	Graduation mm/m	Price EUR
853.601	160	0.3	177.00
853.606	160	0.1	191.00
853.611	160	0.04	261.00
853.616	160	0.02	314.00
853.602	200	0.3	204.00
853.607	200	0.1	226.00
853.612	200	0.04	305.00
853.617	200	0.02	373.00
853.621	200	0.01	463.00
853.603	250	0.3	231.00
853.608	250	0.1	246.00
853.613	250	0.04	356.00
853.618	250	0.02	410.00
853.622	250	0.01	498.00
853.604	300	0.3	247.00
853.609	300	0.1	274.00
853.614	300	0.04	392.00
853.619	300	0.02	440.00
853.623	300	0.01	561.00
853.605	500	0.3	502.00
853.610	500	0.1	539.00
853.615	500	0.04	672.00
853.620	500	0.02	745.00
853.624	500	0.01	858.00

Inspection spirit levels

- Graduation main vial: 0.02 - 0.5 mm/m.
- Adjustable main vial.
- With cross test vial.
- Base with V-groove, interrupted at the center over $^1/_3$ of the length.
- Base width: 40 mm.
- DIN 877.
- Delivery in a plastic case or wooden case.


853.345

Item No.	Length mm	Graduation mm/m	Price EUR
853.343	150	0.5	230.00
853.341	150	0.1	244.00
853.315	150	0.05	253.00
853.348	150	0.02	274.00
853.345	200	0.5	251.00
853.344	200	0.1	281.00
853.323	200	0.05	278.00
853.322	200	0.02	327.00
853.347	300	0.5	291.00
853.346	300	0.1	312.00
853.324	300	0.05	331.00
853.325	300	0.02	380.00


853.618

Schut

C08.216.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Inspection spirit levels

- Graduation main vial: 0.05 or 0.02 mm/m.
- Adjustable main vial.
- With cross test vial.
- Base with V-groove.
- Base width: 46 mm.
- Robust cast iron construction.
- With insulating grip.
- DIN 877.
- Delivery in a wooden case.



908.685

Item No.	Length mm	Graduation mm/m	Price EUR
908.688	150	0.05	70.00
908.684	150	0.02	70.00
908.689	200	0.05	85.00
908.685	200	0.02	85.00
908.690	250	0.05	105.00
908.686	250	0.02	105.00
908.691	300	0.05	123.00
908.687	300	0.02	123.00

Frame spirit levels

- Graduation main vial: 0.05 or 0.02 mm/m.
- Adjustable main vial.
- With cross test vial.
- Two faces with V-groove, two flat faces.
- Robust cast iron construction.
- With insulating grip.
- DIN 877.
- Delivery in a wooden case.



908.693

Item No.	Dimensions mm	Graduation mm/m	Price EUR
908.696	150 x 150 x 40	0.05	80.00
908.692	150 x 150 x 40	0.02	80.00
908.697	200 x 200 x 40	0.05	94.00
908.693	200 x 200 x 40	0.02	94.00
908.698	250 x 250 x 40	0.05	129.00
908.694	250 x 250 x 40	0.02	129.00
908.699	300 x 300 x 40	0.05	150.00
908.695	300 x 300 x 40	0.02	150.00

C08.301.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Frame spirit levels

- Graduation main vial: 0.01 - 0.3 mm/m.
- With cross test vial.
- Three faces with V-groove, one flat face.
- DIN 877.
- Delivery in a plastic case or wooden case.



853.638

Item No.	Dimensions mm	Graduation mm/m	Price EUR
853.625	100 x 100 x 34	0.3	295.00
853.629	100 x 100 x 34	0.1	360.00
853.633	100 x 100 x 34	0.04	451.00
853.626	150 x 150 x 42	0.3	351.00
853.630	150 x 150 x 42	0.1	410.00
853.634	150 x 150 x 42	0.04	549.00
853.637	150 x 150 x 42	0.02	604.00
853.627	200 x 200 x 42	0.3	418.00
853.631	200 x 200 x 42	0.1	504.00
853.635	200 x 200 x 42	0.04	657.00
853.638	200 x 200 x 42	0.02	732.00
853.640	200 x 200 x 42	0.01	1,069.00
853.628	300 x 300 x 44	0.3	694.00
853.632	300 x 300 x 44	0.1	855.00
853.636	300 x 300 x 44	0.04	1,007.00
853.639	300 x 300 x 44	0.02	1,047.00
853.641	300 x 300 x 44	0.01	1,390.00

Frame spirit levels

- Graduation main vial: 0.02 - 0.5 mm/m.
- Adjustable main vial.
- With cross test vial.
- Three faces with V-groove, interrupted at the center over $^1/_3$ of the length. One flat face.
- DIN 877.
- Delivery in a plastic case or wooden case.



853.376

Item No.	Dimensions mm	Graduation mm/m	Price EUR
853.372	150 x 150 x 40	0.5	320.00
853.371	150 x 150 x 40	0.1	366.00
853.375	150 x 150 x 40	0.05	423.00
853.376	150 x 150 x 40	0.02	483.00
853.374	200 x 200 x 40	0.5	374.00
853.373	200 x 200 x 40	0.1	406.00
853.385	200 x 200 x 40	0.05	483.00
853.382	200 x 200 x 40	0.02	533.00
853.395	250 x 250 x 40	0.05	563.00
853.392	250 x 250 x 40	0.02	581.00

C08.217.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Crankshaft spirit levels

- Graduation main vial: 0.04 - 0.6 mm/m.
- With cross test vial.
- Base with a longitudinal and a lateral V-groove.
- Base width: 42 mm.
- DIN 877.



853.688

Item No.	Length mm	Graduation mm/m	Price EUR
853.684	60	0.6	199.00
853.687	60	0.2	223.00
853.682	90	0.3	215.00
853.685	90	0.1	237.00
853.688	90	0.04	289.00
853.683	120	0.3	239.00
853.686	120	0.1	265.00
853.689	120	0.04	328.00

Aluminum spirit levels

- Graduation vial: 0.6 mm/m.
- Base with V-groove.
- Base width: 22 mm.
- DIN 877.



853.677

Item No.	Length/mm	Price EUR
853.675	100	59.00
853.676	150	64.00
853.677	200	73.00
853.678	250	90.00
853.679	300	105.00

Small spirit levels

Intended for simple tasks.

- Graduation vial: 0.1 or 0.3 mm/m.
- With longitudinal spirit level.
- Width: 24 mm.
- Equipped with mounting holes ø 5 mm.
- Flat base.
- DIN 877.

Item No.	Length mm	Graduation mm/m	Price EUR
853.665	100	0.3	145.00
853.666	100	0.1	156.00
853.667	150	0.3	150.00
853.668	150	0.1	165.00



853.666

C08.218.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Cross spirit levels

Cross spirit levels with two vials, in cast iron casing 80 x 80 mm, cross-section 20 x 20 mm, with two screw holes ø 4 mm.

Item No.	Graduation mm/m	Price EUR
857.338	0.4	245.00
857.339	0.1	369.00
857.340	0.05	402.00



857.338


857.342

Cross spirit levels with two vials, in circular chrome casing with three screw holes ø 4 mm.

Item No.	Graduation mm/m	Dimensions mm	Screw holes ø/mm	Price EUR
857.342	0.4	ø 80 x 23	4	191.00
857.343	0.1	ø 80 x 23	4	206.00

Spirit levels with flat base

Spirit levels with a stainless steel strip base, no screw mounting, with an adjustable plexiglass vial mounted onto it, graduation approx. 5 mm/m.

Item No.	Dimensions base *l* x *w* x *t*/mm	Price EUR
857.344	100 x 20 x 5	42.00
857.345	150 x 20 x 5	55.00
857.346	200 x 20 x 5	64.00


857.344

Spirit levels with a stainless steel strip base, no screw mounting, with two ground contact planes. Mounted onto this an adjustable spirit level with cast iron housing, graduation 1 mm/m.

Item No.	Dimensions base *l* x *w* x *t*/mm	Price EUR
857.347	100 x 20 x 5	78.00
857.348	150 x 20 x 5	85.00
857.349	200 x 20 x 5	92.00


857.347

C08.220.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Circular spirit levels

Item No.	Diameter mm	Heigth mm	Sensitivity* mm/m	Price EUR
Plexiglass model with yellow and green base:				
857.315	12	7	approx. 22	5.30
857.316	15	8	approx. 22	6.10
857.317	18	9	approx. 22	7.20
857.318	30	10	approx. 22	10.20
Black synthetic model with frame and screw holes ø2.5 mm and yellow and green base:				
857.320	26/17	7 +3	approx. 19	12.10
857.321	30/20	7.5+3.5	approx. 19	15.60
Chrome casing and white base:				
857.323	15	10	approx. 8	28.70
857.324	18	10	approx. 8	33.10
Chrome casing with frame and screw holes ø2.5 mm (857.325: ø1.5 mm; 857.330/331: ø3.5 mm) and white base:				
857.325	20/13.5	7 +2	approx. 8	35.30
857.326	25/17	7.5+2.5	approx. 8	37.40
857.327	30/17	6.5+3.5	approx. 8	39.70
857.328	35/20	7.5+3.5	approx. 6	57.00
857.329	40/25	8 +4	approx. 6	73.00
857.330	50/34	9.5+5.5	approx. 3	106.00
857.331	60/39	10 +7	approx. 3	117.00
857.332	25/17	7.5+2.5	approx. 2	43.00
White, synthetic casing with frame and screw holes ø3 mm, additional scale circles and white base:				
857.336	60/45	4+6	Reading 0° - 2° - 5°	72.00
Black, synthetic casing with frame and screw holes ø5 mm, additional scale circles and white base:				
857.337	100/75	5+10	Reading 0° - 3° - 6°	80.00

* Sensitivity means: the angle at which the air bubble is moved to the next scale mark or edge of the vial.


857.318


857.320


857.323


857.331


857.336


857.337

Hose water level

- Measuring range: 15 cm.
- Graduation: 1 mm.
- Scale numbering: 0.5 - 15.5 cm.
- Hose length: 20 m (reducible).
- Hose cross-section: 9.5 mm.

Item No.	Description	Price EUR
906.819	Hose water level	15.10



C08.221.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Surface roughness testers / Roughness specimens



C10.000.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo Surftest SJ-210 surface roughness tester

The portable Mitutoyo Surftest SJ-210 is a compact tester of surface roughness parameters, that can also function in hard-to-reach places because of the separable drive unit and probe. The diamond stylus has a radius of 2 µm and is retracted by the drive unit. After selection of the desired parameters, they can be read out clearly on the display. The SJ-210 has a USB, an RS232C and a Digimatic data output to which the Mitutoyo u-wave system can be connected for wireless data transfer. The data can also be stored on a MicroSD card. A large selection of probes and accessories is available.

An S-Drive unit is available on request, with a transverse tracing drive unit, for example for measuring in narrow spaces like crankshafts. Also available on request is the Front Lift model, where the drive lifts the diamond stylus at the end of the measurement and is retracted without touching the surface again.

- Parameters: Ra, Rc, Ry, Rz, Rq, Rt, Rmax, Rp, Rv, R3z, Rsk, Rku, Rc, RPc, Rsm, Rz1max, S, HSC, RzJIS, Rppi, RΔa, RΔq, Rlr, Rmr, Rmr(c), Rδc, Rk, Rpk, Rvk, Mr1, Mr2, A1, A2, Vo, Rpm, tp, Htp, R, Rx, AR.
- Resolution: 0.02 µm, 0.006 µm or 0.002 µm.
- Traverse length: 0.3 - 17.5 mm.
- Primary profile, roughness (R), DF profile, R-Motif.
- Measuring accuracy according JIS, ISO, VDA, ANSI.
- 2.4" TFT color display.
- Display of: roughness profile and ADC/BAC curves.
- User rights protection (password protection).
- Easy calibration procedure.
- Automatic switch-off.
- Memory: 10 settings and 1 profile.
- Go/NoGo tolerance evaluation.
- Measuring speed: 0.25, 0.5 or 0.75 mm/s.
- Probe: 0.75 mN / 2 µm/60°.
- Cut-off lengths: 0.08 mm, 0.25 mm, 0.8 mm and 2.5 mm.
- Probe measuring range: 360 µm.
- Filters: 2CR75, Gaussian and PC75.
- Dimensions: 160 x 65.8 x 52.1 mm.
- Weight: display unit: 290 g,
  drive unit: 190 g.
- ISO 4287.
- Power supply: AC adapter and battery.
- After use the probe can be retracted to prevent the diamond stylus tip from being damaged.
- Memory card: micro-SD 2 GB (optional). Storage for 10 000 measured profiles.
- Also probes available for example for deep grooves or small holes.
- USB and RS232C cables available.
- USB data analysis software can be downloaded for free.







S-Drive unit

Item No.	Type/description	Price EUR
178.560	Surftest SJ-210P	
Options:		
120.210	Extension 50 mm	
178.029*	Stand	
120.221	Adapter for stand (ø 8 mm)	
120.222	Adapter for height gauge (9 x 9 mm)	
120.218	Nosepiece for cylindrical workpieces	
178.296	Standard insert	

* Adapter 120.221 required.

Standard accessories:

– standard probe,
– extension cable for the probe unit for measuring in small spaces,
– roughness normal,
– setting piece for calibration,
– AC adapter,
– handy carrying bag.

C10.304.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo Surftest SJ-310 surface roughness tester

The Mitutoyo Surftest SJ-310 is a compact, portable roughness tester with the possibility to print on location the measuring results and roughness curves with the built-in thermo printer. Measurements can be set using the 5.7" color touch screen and measurements can be read. Measurements can be stored on a SD memory card. On request, as for the SJ-210, an S-Drive or Front Lift model is available.

- Parameters: Ra, Rc, Ry, Rz, Rt, Rp, Rq, Rv, Sm, Rmax, S, Pc, R3z, Rsk, Rku, Rz1max, Rir, Rpm, mr (c), Rpk, Rvk, δc, Rk, Mr1, Mr2, Lo, Ppi, R, AR, Rx, A1, A2, Vo, HSC, Rmr, SK, Tp, Htp, Δa, Δq, Wte, Wx, W, AW, λa, λq, RzJIS.
- Resolution: 0.002 µm - 0.02 µm.
- Traverse length: 16 mm.
- Measuring accuracy according ISO, VDA, ANSI and JIS.
- Cut-off lengths: 0.08 mm, 0.25 mm, 0.8 mm, 2.5 mm and 8 mm.
- Probe measuring range: 360 µm.
- Built-in printer for statistical process control.
- ISO 4287.
- Power supply: AC adapter and battery.



Standard accessories:
- standard probe,
- roughness normal,
- support feet,
- nosepiece for flat surface,
- nosepiece for cylinder,
- extension cable for the probe unit,
- touch pen,
- touch panel protection foil,
- printer paper (5 rolls),
- setting piece for calibration,
- AC adapter and battery,
- handy carrying bag.

Item No.	Type	Price EUR
178.570	Surftest SJ-310	

Ask for the detailed brochure

Mitutoyo Surftest SJ-410 surface roughness testers

The Mitutoyo Surftest SJ-410 is unique due to its skidless measuring. Only the stylus follows the product and no skid is used. The probe features a measuring range of 800 µm. The built-in straight guide enables measuring the primary profile, the roughness profile and the waves. By surface radius compensation it is possible to measure radially on a cylinder.

- Parameters: Ra, Rc, Ry, Rz, Rt, Rp, Rq, Rv, Sm, Rmax, S, Pc, R3z, Rsk, Rku, Rz1max, Rir, Rpm, mr (c), Rpk, Rvk, δc, Rk, Mr1, Mr2, Lo, Ppi, R, AR, Rx, A1, A2, Vo, HSC, Rmr, SK, Tp, Htp, Δa, Δq, Wte, Wx, W, AW, λa, λq, RzJIS.
- Resolution: 0.0001 µm - 0.01 µm.
- Measuring accuracy according ISO, VDA, ANSI and JIS.
- Cut-off lengths: 0.08 mm, 0.25 mm, 0.8 mm, 2.5 mm and 8 mm.
- Probe measuring range: 800 µm.
- Straightness x-axis: SJ-411: 0.3 µm/25 mm, SJ-412: 0.5 µm/50 mm.
- Built-in printer for statistical process control.
- ISO 4287.
- Power supply: AC adapter and battery.





Item No.	Type	Traverse length/mm	Price EUR
178.580	Surftest SJ-411	25	
178.582	Surftest SJ-412	50	
Option:			
120.731	Standard stylus 2µm/60°		

Ask for the detailed brochure

C10.205.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

TESA Twin-Surf surface roughness tester

The TESA Twin-Surf is a compact, portable roughness tester made to measure diverse and hard to reach places. By means of the standard supplied 8 mm clamping shaft, it is possible to place the TESA Twin-Surf in any compatible stand. The TESA Twin-Surf has a rechargeable battery that enables 300 measurements without the need for mains voltage.

With the OLED display and the 3 buttons on top, the roughness tester is easy to set up and the needed parameters are easy to read.

The roughness parameters are determined through a dragging motion of the probe, which is fitted with a diamond stylus top with a radius of 2 µm. When the probe is rotated 90° horizontally, it is also possible to measure in the same direction, but perpendicular to the roughness tester. Because of this, it is possible to measure in hard to reach places like crankshafts or deeper parts of your workpiece.

The TESA Twin-Surf can be connected to a PC by means of a USB cable. The Bluetooth version offers wireless data transfer to PC or Android smartphone/tablet. With the standard supplied TESA Data-Studio basic software and the Android App, basic measurements and graphics can be stored. A more detailed analysis can be acquired through the TESA Data-Studio premium software.

- Parameters: According to ISO 4287: Ra, Rq, Rt, Rz, Rc, Rmax, Rsm, RPc,
  According to ISO 12085: Pt, R, AR, Rx, PPc.
- Parameters with premium software according to ISO 4287: Rp, Rv, Rsk, Rku, RΔq, RΔa, Rmr rel, Rδc, Rmr(c), Pa, Pq, Pp, Pv, Pt, Pc, RPc, R3z, Psk, Pku, PSm, PΔq, Pmr rel, Pδc, Pmr(c), Rk, Rpk, Rvk, A1, A2, Mr1, Mr2,
  Parameters with premium software according to ISO 12085: Rke, Rpke, Rvke, A1e, A2e, Mr1e, Mr2e.
- Measuring range: Ra 0 - 50 µm,
  Rt 0.05 - 200 µm.
- Resolution: 0.001 µm / 0.01 µinch.
- Measuring length: 0.25 - 16.0 mm).
- Cut-off length: 0.25 mm, 0.8 mm, 2.5 mm.
- mm/inch conversion.
- USB or Bluetooth data output (BT model).
- Automatic switch-off.
- Internal storage for 30 measurements with additional graphics or 18000 measurements with roughness parameters.
- Measuring force: 0.75 mN (ISO 3274).
- Diamond stylus tip: radius 2 µm, 90°.
- Dimensions: 160 x 34 x 34 mm.
- Weight: 200 g.
- Power supply: AC adapter and battery.

Standard accessories:

– Twin-Surf portable roughness tester,
– SB51 probe,
– roughness specimen (Ra = 2.97 µm),
– adapter for 8 mm diameter clamping shafts,
– key to remove the probe protection,
– main charger with EU and US charger adaptors,
– USB A-C cable,
– USB key including: user manual, measuring report, declaration of conformity, TESA Data-Studio software basic version and Android app,
– plastic carrying case.

NEW



783.656/657





Item No.	Type	Price EUR
783.656	TESA Twin-Surf	
783.657	TESA Twin-Surf BT (Bluetooth)	
Options:		
783.658	Printer for Twin-Surf	
783.659	TESA Data-Studio Premium software	
783.661	SB31 probe (for small bores ø4 mm)	
783.662	SB51 probe (standard)	
783.663	SB121 probe (for groove depth < 20 mm)	
783.664	100 mm extension	

Ask for the detailed brochure

Schut


783.657

C10.305.EN.20230516

Roughness specimens

Series of roughness specimens, type Microsurf, covering the nine most frequently occurring manufacturing operations; per set eight specimens will be delivered. In addition to the roughness value *R*a in µm, the roughness value *CLA* in µinch and the *N* values are specified.



Item No.	Machining-method	Number of specimens per set	Roughness *R*a µm	Roughness *CLA* µin	Roughness class *N*	Price EUR
850.315	Surface grinding	8	0.025 - 3.2	1 - 125	1 - 8	130.00
850.316	Cylindr. grinding	8	0.025 - 3.2	1 - 125	1 - 8	130.00
850.319	Face turning	8	0.4 - 50	16 - 2000	5 - 12	130.00
850.320	Turning	8	0.4 - 50	16 - 2000	5 - 12	130.00
850.321	End milling	8	0.4 - 50	16 - 2000	5 - 12	130.00
850.322	Reaming & drilling	8	0.4 - 12.5	16 - 500	5 - 10	130.00
850.323	Horizontal milling	8	0.4 - 50	16 - 2000	5 - 12	130.00
850.325	Planing	8	0.8 - 100	32 - 4000	6 - 13	130.00
850.331	Spark erosion	8	0.4 - 50	16 - 2000	5 - 12	130.00

Available with declaration of conformity on request.

Wall chart

Eight Microsurf roughness specimens, mounted on a general reference chart, can be obtained for the following manufacturing operations:

- Surface grinding, cylindrical grinding, face turning, turning, end milling, reaming & drilling, horizontal milling and planing.
- Dimensions *w* x *h*: 740 x 310 mm.

Item No.	Description	Price EUR
850.314	Microsurf	913.00



C10.206.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Roughness specimens in a set



850.130

This set consists of 30 specimens, mounted in a practical case with instruction card. In addition to the *R*a values, the standardized *N* values and the *R*z values are specified.

Item No.	Language	Price EUR
850.130	English	231.00
850.131	French	231.00
850.132	German	231.00

Available with declaration of conformity on request.

Set composition

Number of specimens	Machining method	Roughness *R*a/µm	Roughness class *N*
3	Flat lapping	0.05 - 0.2	2, 3, 4
3	Reaming	0.4 - 1.6	5, 6, 7
6	Grinding	0.05 - 1.6	2, 3, 4, 5, 6, 7
6	Horizontal milling	0.4 - 12.5	5, 6, 7, 8, 9, 10
6	Vertical milling	0.4 - 12.5	5, 6, 7, 8, 9, 10
6	Turning	0.4 - 12.5	5, 6, 7, 8, 9, 10

Roughness specimens for blasted surfaces

- Each plate consists of four roughness specimens for grit and shot blasting, in 4 segments.
- Delivered in a soft case.
- Standardized to ISO specifications.



Item No.	Description	Price EUR
850.017	Shot blasting	178.00
850.018	Grit blasting	178.00

C10.207.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Gauge blocks / Measuring balls
Optical flats and parallel optical flats / Feeler gauges



C11.001.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Gauge blocks general

Which gauge block is the most suitable for you?

MATERIALS

Steel

Steel is the oldest material and remains the most commonly accepted for gauge blocks. If well taken care of, steel gauges guarantee many years of useful life. They must be cleaned carefully before and after use and stored in a protective case in a dry environment.

Tungsten carbide

When a higher degree of hardness is needed, tungsten carbide is the material to choose. It is less sensitive to wear and damage compared to hardened steel. Especially when used frequently, tungsten carbide has an increased life span compared to steel gauge blocks.

Ceramics

Ceramics is relatively wear resistant and has a high degree of strength and stability. It will not rust and is unaffected by chemicals.

ACCURACY CLASSES

Gauge blocks are classified in upgrading order of accuracy according EN ISO 3650: 1998 in the classes: 2, 1, 0, K. The ISO 3650 is an international standard, which is adopted by national standards such as RvA, DAkkS, UKAS, BKO, SCS and COFRAC.

Class 2

Class 2 gauge blocks are intended for general workshop use by skilled workers to set up, for example, measuring instruments.

Class 1

Class 1 gauge blocks are used as working standards in inspection rooms within the production to set and calibrate measuring instruments and equipment as well as to inspect tools, fixtures and machines.

Class 0

Class 0 gauge blocks, with their high accuracy, are intended for use by measuring technicians in environmentally controlled inspection rooms, for example to calibrate measuring equipments.

Class K

Class K gauge blocks have the highest class of accuracy. They are *the* length standards in a calibration laboratory and other calibration values are derived from these gauges. Only with a UKAS certificate – or with another certificate, accepted by UKAS as equivalent (e.g. DAkkS, RvA and COFRAC) – will these gauge blocks be at their best. The most accurate gauges can meet a tolerance of ±0.05 µm.

Accuracy according ISO 3650

Nominal size mm	Class K Tolerance on nominal size µm	Class K Deviation* µm	Class 0 Tolerance on nominal size µm	Class 0 Deviation* µm	Class 1 Tolerance on nominal size µm	Class 1 Deviation* µm	Class 2 Tolerance on nominal size µm	Class 2 Deviation* µm
0.5 - 10	±0.20	0.05	±0.12	0.10	±0.20	0.16	±0.45	0.30
10 - 25	±0.30	0.05	±0.14	0.10	±0.30	0.16	±0.60	0.30
25 - 50	±0.40	0.06	±0.20	0.10	±0.40	0.18	±0.80	0.30
50 - 75	±0.50	0.06	±0.25	0.12	±0.50	0.18	±1.00	0.35
75 - 100	±0.60	0.07	±0.30	0.12	±0.60	0.20	±1.20	0.35
100 - 150	±0.80	0.08	±0.40	0.14	±0.80	0.20	±1.60	0.40
150 - 200	±1.00	0.09	±0.50	0.16	±1.00	0.25	±2.00	0.40
200 - 250	±1.20	0.10	±0.60	0.16	±1.20	0.25	±2.40	0.45
250 - 300	±1.40	0.10	±0.70	0.18	±1.40	0.25	±2.80	0.50
300 - 400	±1.80	0.12	±0.90	0.20	±1.80	0.30	±3.60	0.50
400 - 500	±2.20	0.14	±1.10	0.25	±2.20	0.35	±4.40	0.60
500 - 600	±2.60	0.16	±1.30	0.25	±2.60	0.40	±5.00	0.70
600 - 700	±3.00	0.18	±1.50	0.30	±3.00	0.45	±6.00	0.70
700 - 800	±3.40	0.20	±1.70	0.30	±3.40	0.50	±6.50	0.80
800 - 900	±3.80	0.20	±1.90	0.35	±3.80	0.50	±7.50	0.90
900 - 1000	±4.20	0.25	±2.00	0.40	±4.20	0.60	±8.00	1.00

* Deviation of the measuring face.

C11.202.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Steel gauge blocks

Steel gauge blocks with an excellent price-performance ratio.

- Hardness: 63 - 65 HRC.
- Expansion coefficient: $(11.5 \pm 1) \cdot 10^{-6}/°C$.
- Cross-section: 0.5 - 10 mm: 30 x 9 mm,
  > 10 mm: 35 x 9 mm.
- ISO 3650.
- Sets delivered with a manufacturer measuring report.
- Delivery in plastic case and sets in wooden case.
- Empty wooden cases with cutouts and size indications for gauge block sets are optionally available. For these cases see wooden cases for gauge block sets elsewhere in the catalog.



Steel gauge blocks in sets

Item No.	Class	Price EUR	Size mm	Increment mm	Pieces
M32:			1.005	–	1
906.622	2	85.00	1.01 - 1.09	0.01	9
906.621	1	164.00	1.1 - 1.9	0.1	9
906.620	0	306.00	1 - 9	1	9
			10 - 30	10	3
			50	–	1
M47:			1.005	–	1
906.625	2	128.00	1.01 - 1.09	0.01	9
906.624	1	258.00	1.1 - 1.9	0.1	9
906.623	0	381.00	1 - 24	1	24
			25 - 100	25	4
M87:			1.001 - 1.009	0.001	9
906.613	2	218.00	1.01 - 1.49	0.01	49
906.612	1	452.00	0.5 - 9.5	0.5	19
906.611	0	859.00	10 - 100	10	10
M88:			1.0005	–	1
906.628	2	211.00	1.001 - 1.009	0.001	9
906.627	1	429.00	1.01 - 1.49	0.01	49
906.626	0	673.00	0.5 - 9.5	0.5	19
			10 - 100	10	10
M112:			1.0005	–	1
906.631	2	323.00	1.001 - 1.009	0.001	9
906.630	1	648.00	1.01 - 1.49	0.01	49
906.629	0	1,005.00	0.5 - 24.5	0.5	49
			25 - 100	25	4

Steel gauge blocks, per piece

Size mm	Increment mm	**ISO 3650/1** Price EUR	**ISO 3650/0** Price EUR
0.5	–	21.90	25.70
1	–	11.10	16.50
1.0005	–	15.50	23.00
1.001 - 1.009	0.001	11.10	16.50
1.01 - 1.50	0.01	11.10	15.00
1.6 - 2.0	0.1	11.10	15.00
2.5 - 7.5	0.5	11.10	15.00
8.0 - 10.0	0.5	11.10	15.00
10.5 - 25.0	0.5	14.10	17.70
30	–	17.90	22.80
40	–	17.90	22.80
50	–	20.10	22.80
60	–	21.10	28.70
70	–	21.10	28.70
75	–	27.30	35.00
80	–	27.30	35.00
90	–	30.20	50.00
100	–	39.10	58.00

C11.302.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Select steel gauge blocks

High quality steel gauge blocks, can be very well wringed to make a combination size. The steel gauge blocks are available in all accuracy classes of ISO 3650 (2, 1, 0, K). Only the most commonly used sizes can be found in this catalog. Special sizes and sets are available on request, as well as special sets for calibration of micrometers and calipers.

- Hardness: approx. 800 HV.
- Expansion coefficient: $\alpha = 11.5 \cdot 10^{-6}\ K^{-1}$.
- Cross-section: 0.5 - 10 mm: 30 x 9 mm,
  > 10 mm: 35 x 9 mm.
- ISO 3650.



- Delivery with a traceable manufacturer measuring report.
- Delivery on request with a DAkkS certificate, UKAS acknowledged.
- Sets delivered in luxurious wooden case.
- Plastic cases for separate gauge blocks are optionally available. For these cases see plastic cases for gauge blocks elsewhere in the catalog.

Steel gauge blocks, per piece

Size mm	Increment mm	**ISO 3650/1** Price EUR	**ISO 3650/0** Price EUR
0.5	–	49.00	60.00
1	–	46.00	49.00
1.0005	–	49.00	60.00
1.001 - 1.009	0.001	46.00	49.00
1.01 - 1.5	0.01	42.00	46.00
1.6 - 1.9	0.1	42.00	46.00
2.0 - 5.5	0.5	46.00	49.00
6.0 - 10.0	0.5	46.00	49.00
10.5 - 15.0	0.5	48.00	54.00
15.5 - 20.0	0.5	48.00	54.00
20.5 - 25.0	0.5	48.00	54.00
30	–	49.00	60.00
40	–	49.00	60.00
50	–	49.00	60.00
60	–	49.00	60.00
70	–	49.00	60.00
75	–	54.00	63.00
80	–	56.00	74.00
90	–	56.00	74.00
100	–	63.00	83.00

Steel gauge blocks in sets

Item No.	Class	Price EUR	Size mm	Increment mm	Pie-ces
M32:			1.005	–	1
831.915	1	1,014.00	1.01 - 1.09	0.01	9
831.914	0	1,197.00	1.1 - 1.9	0.1	9
			1 - 9	1	9
			10 - 30	10	3
			50	–	1
M47:			1.005	–	1
831.911	1	1,659.00	1.00 - 1.09	0.01	10
831.910	0	1,921.00	1.1 - 1.9	0.1	9
			2 - 25	1	24
			50 - 100	25	3
M87:			0.5	–	1
831.909	1	2,330.00	1.001 - 1.009	0.001	9
831.908	0	2,790.00	1.00 - 1.50	0.01	51
			2.0 - 10.0	0.5	17
			20 - 100	10	9
M103:			0.5	–	1
831.907	1	2,720.00	1.005	–	1
831.906	0	3,280.00	1.00 - 1.50	0.01	51
			2.0 - 25.0	0.5	47
			50 - 100	25	3
M112:			0.5	–	1
831.905	1	2,920.00	1.0005	–	1
831.904	0	3,500.00	1.001 - 1.009	0.001	9
			1.00 - 1.50	0.01	51
			2.0 - 25.0	0.5	47
			50 - 100	25	3
M122:			0.5	–	1
831.903	1	3,260.00	1.0005	–	1
831.902	0	4,000.00	1.001 - 1.009	0.001	9
			1.00 - 1.50	0.01	51
			1.6 - 1.9	0.1	4
			2.0 - 25.0	0.5	47
			30 - 70	10	5
			75	–	1
			80 - 100	10	3

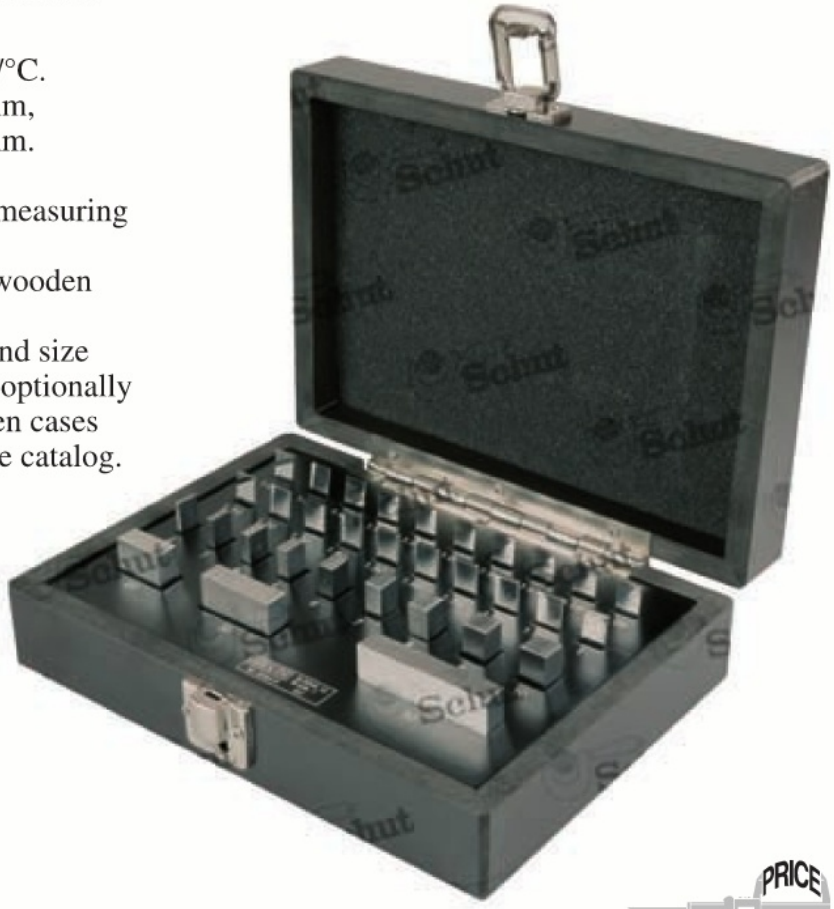
C11.210.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Tungsten carbide gauge blocks

Tungsten carbide gauge blocks with an excellent price-performance ratio and a low expansion coefficient. High resistance against corrosion.

- Hardness: 70 - 72 HRC.
- Expansion coefficient: $(8.5 \pm 1) \cdot 10^{-6}$/°C.
- Cross-section: 0.5 - 10 mm: 30 x 9 mm,
  > 10 mm: 35 x 9 mm.
- ISO 3650.
- Sets delivered with a manufacturer measuring report.
- Delivery in plastic case and sets in wooden case.
- Empty wooden cases with cutouts and size indications for gauge block sets are optionally available. For these cases see wooden cases for gauge block sets elsewhere in the catalog.



PRICE

Tungsten carbide gauge blocks, per piece

Size mm	Increment mm	ISO 3650/1 Price EUR	ISO 3650/0 Price EUR
0.5	–	41.00	47.00
1	–	36.90	47.00
1.0005	–	49.00	63.00
1.001 - 1.009	0.001	36.90	47.00
1.01 - 1.50	0.01	36.90	47.00
1.6 - 1.9	0.1	36.90	47.00
2.0 - 10.0	0.5	37.90	51.00
10.5 - 15.0	0.5	45.00	53.00
15.5 - 25.0	0.5	55.00	65.00
30	–	66.00	85.00
40	–	95.00	113.00
50	–	113.00	127.00
60	–	131.00	140.00
70	–	143.00	167.00
75	–	162.00	171.00
80	–	167.00	176.00
90	–	189.00	203.00
100	–	189.00	203.00

Tungsten carbide gauge blocks in sets

Item No.	Class	Price EUR	Size mm	Increment mm	Pieces
M32:			1.005	–	1
906.634	2	502.00	1.01 - 1.09	0.01	9
906.633	1	556.00	1.1 - 1.9	0.1	9
906.632	0	568.00	1 - 9	1	9
			10 - 30	10	3
			50	–	1
M47:			1.005	–	1
906.637	2	921.00	1.01 - 1.09	0.01	9
906.636	1	1,033.00	1.1 - 1.9	0.1	9
906.635	0	1,147.00	1 - 24	1	24
			25 - 100	25	4
M87:			1.001 - 1.009	0.001	9
906.662	2	1,258.00	1.01 - 1.49	0.01	49
906.661	1	1,474.00	0.5 - 9.5	0.5	19
906.660	0	1,652.00	10 - 100	10	10
M112:			1.0005	–	1
906.643	2	1,427.00	1.001 - 1.009	0.001	9
906.642	1	1,564.00	1.01 - 1.49	0.01	49
906.641	0	2,010.00	0.5 - 24.5	0.5	49
			25 - 100	25	4

C11.303.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Select tungsten carbide gauge blocks

High quality tungsten carbide gauge blocks, can be very well wringed to make a combination size. The tungsten carbide gauge blocks are available in all accuracy classes of ISO 3650 (2, 1, 0, K). Only the most commonly used sizes can be found in this catalog. Special sizes and sets are available on request.

- Hardness: approx. 1500 HV.
- Expansion coefficient: $\alpha = 4.5 \cdot 10^{-6}\ K^{-1}$.
- Cross-section: 0.5 - 10 mm: 30 x 9 mm,
  > 10 mm: 35 x 9 mm.
- ISO 3650.
- Delivery with a traceable manufacturer measuring report.
- Delivery on request with a DAkkS certificate, UKAS acknowledged.
- Sets delivered in luxurious wooden case.
- Plastic cases for separate gauge blocks are optionally available. For these cases see plastic cases for gauge blocks elsewhere in the catalog.



Tungsten carbide gauge blocks, per piece

Size mm	Increment mm	**ISO 3650/1** Price EUR	**ISO 3650/0** Price EUR
0.5	–	67.00	78.00
1	–	62.00	72.00
1.0005	–	62.00	72.00
1.001 - 1.009	0.001	62.00	72.00
1.01 - 1.50	0.01	58.00	66.00
1.6 - 1.9	0.1	58.00	66.00
2.0 - 5.5	0.5	61.00	67.00
6.0 - 10.0	0.5	76.00	84.00
10.5 - 15.0	0.5	89.00	95.00
15.5 - 20.0	0.5	103.00	107.00
20.5 - 25.0	0.5	125.00	133.00
30	–	143.00	153.00
40	–	181.00	188.00
50	–	196.00	203.00
60	–	214.00	224.00
70	–	234.00	242.00
75	–	242.00	249.00
80	–	250.00	260.00
90	–	260.00	269.00
100	–	271.00	275.00

Tungsten carbide gauge blocks in sets

Item No.	Class	Price EUR	Size mm	Increment mm	Pie-ces
M32:			1.005	–	1
828.592	1	1,951.00	1.01 - 1.09	0.01	9
828.606	0	2,140.00	1.1 - 1.9	0.1	9
			1 - 9	1	9
			10 - 30	10	3
			50	–	1
M46:			1.001 - 1.009	0.001	9
828.590	1	3,490.00	1.00 - 1.09	0.01	10
828.604	0	3,810.00	1.1 - 1.9	0.1	9
			2 - 10	1	9
			20 - 100	10	9
M47:			1.005	–	1
828.589	1	3,460.00	1.00 - 1.09	0.01	10
828.603	0	3,700.00	1.1 - 1.9	0.1	9
			2 - 25	1	24
			50 - 100	25	3
M87:			0.5	–	1
828.587	1	5,460.00	1.001 - 1.009	0.001	9
828.601	0	6,050.00	1.00 - 1.50	0.01	51
			2.0 - 10.0	0.5	17
			20 - 100	10	9
M103:			0.5	–	1
828.585	1	6,680.00	1.005	–	1
828.599	0	7,310.00	1.00 - 1.50	0.01	51
			2.0 - 25.0	0.5	47
			50 - 100	25	3
M112:			0.5	–	1
828.584	1	7,130.00	1.0005	–	1
828.598	0	7,810.00	1.001 - 1.009	0.001	9
			1.00 - 1.50	0.01	51
			2.0 - 25.0	0.5	47
			50 - 100	25	3
M122:			0.5	–	1
828.583	1	8,320.00	1.0005	–	1
828.597	0	9,060.00	1.001 - 1.009	0.001	9
			1.00 - 1.50	0.01	51
			1.6 - 1.9	0.1	4
			2.0 - 25.0	0.5	47
			30 - 70	10	5
			75	–	1
			80 - 100	10	3

C11.204.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Ceramic gauge blocks

Ceramic gauge blocks with an excellent price-performance ratio, made of Zirconia ceramics. Because of this, these gauge blocks are highly durable, corrosion proof and completely stable for long-term use.

- Highly wear-resistant. Can be used 5 to 10 times longer than steel gauge blocks.
- Rustproof.
- Hardness: 88 - 90 HRC.
- Expansion coefficient: $(9.2 \pm 1) \cdot 10^{-6}$/°C.
- Cross-section: 0.5 - 10 mm: 30 x 9 mm,
  > 10 mm: 35 x 9 mm.
- ISO 3650.
- Sets delivered with a manufacturer measuring report.
- Delivery in plastic case and sets in wooden case.
- Empty wooden cases with cutouts and size indications for gauge block sets are optionally available. For these cases see wooden cases for gauge block sets elsewhere in the catalog.



Ceramic gauge blocks, per piece

Size mm	Increment mm	ISO 3650/1 Price EUR	ISO 3650/0 Price EUR
0.5	–	52.00	54.00
1	–	44.00	52.00
1.0005	–	52.00	61.00
1.001 - 1.009	0.001	35.50	42.00
1.01 - 1.49	0.01	26.30	27.70
1.5 - 1.9	0.1	26.30	27.70
2.0 - 5.5	0.5	28.50	30.50
6.0 - 9.5	0.5	43.00	49.00
10.0 - 20.0	0.5	53.00	59.00
20.5 - 25.0	0.5	56.00	60.00
30	–	64.00	72.00
40	–	71.00	76.00
50	–	77.00	77.00
60	–	81.00	86.00
70	–	89.00	95.00
75	–	92.00	98.00
80	–	95.00	103.00
90	–	104.00	115.00
100	–	111.00	118.00

Ceramic gauge blocks in sets



Item No.	Class	Price EUR	Size mm	Increment mm	Pieces
M32:			1.005	–	1
906.646	1	1,035.00	1.01 - 1.09	0.01	9
906.645	0	1,294.00	1.1 - 1.9	0.1	9
			1 - 9	1	9
			10 - 30	10	3
			50	–	1
M47:			1.005	–	1
906.649	1	1,712.00	1.01 - 1.09	0.01	9
906.648	0	1,875.00	1.1 - 1.9	0.1	9
			1 - 24	1	24
			25 - 100	25	4
M87:			1.001 - 1.009	0.001	9
906.652	1	3,450.00	1.01 - 1.49	0.01	49
906.651	0	3,500.00	0.5 - 9.5	0.5	19
			10 - 100	10	10
M103:			1.005	–	1
906.655	1	3,470.00	1.01 - 1.49	0.01	49
906.654	0	4,210.00	0.5 - 24.5	0.5	49
			25 - 100	25	4
M112:			1.0005	–	1
906.658	1	3,540.00	1.001 - 1.009	0.001	9
906.657	0	4,490.00	1.01 - 1.49	0.01	49
			0.5 - 24.5	0.5	49
			25 - 100	25	4

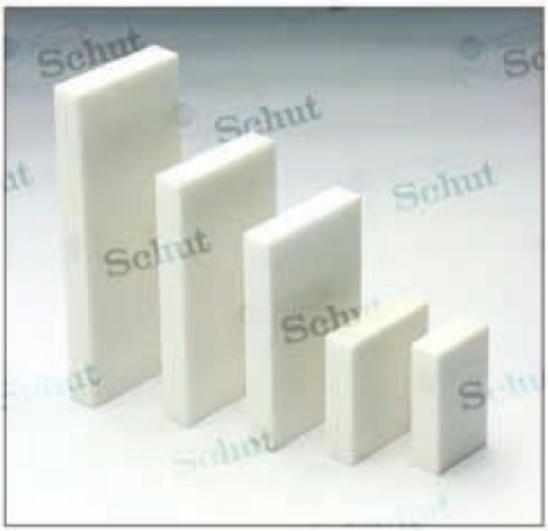
C11.304.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Select ceramic gauge blocks

High quality ceramic gauge blocks, can be very well wringed to make a combination size. The ceramic gauge blocks are available in all accuracy classes of ISO 3650 (2, 1, 0, K). Only the most commonly used sizes can be found in this catalog. Special sizes and sets are available on request, as well as special sets for calibration of micrometers and calipers.

- Hardness: approx. 1350 HV.
- Expansion coefficient: $\alpha = 9.3 \cdot 10^{-6}\ K^{-1}$.
- Cross-section: 0.5 - 10 mm: 30 x 9 mm,
  > 10 mm: 35 x 9 mm.
- ISO 3650.
- Delivery with a traceable manufacturer measuring report.
- Delivery on request with a DAkkS certificate, UKAS acknowledged.
- Sets delivered in luxurious wooden case.
- Plastic cases for separate gauge blocks are optionally available. For these cases see plastic cases for gauge blocks elsewhere in the catalog.



Schut

SELECT

Ceramic gauge blocks, per piece

Size mm	Increment mm	**ISO 3650/1** Price EUR	**ISO 3650/0** Price EUR
0.5	–	57.00	84.00
1	–	47.00	66.00
1.0005	–	50.00	66.00
1.001 - 1.009	0.001	50.00	66.00
1.01 - 1.50	0.01	50.00	66.00
1.6 - 1.9	0.1	50.00	66.00
2.0 - 5.5	0.5	53.00	72.00
6.0 - 10.0	0.5	57.00	80.00
10.5 - 15.0	0.5	66.00	89.00
15.5 - 20.0	0.5	69.00	89.00
20.5 - 25.0	0.5	80.00	103.00
30	–	84.00	104.00
40	–	100.00	134.00
50	–	117.00	157.00
60	–	120.00	172.00
70	–	134.00	186.00
75	–	149.00	206.00
80	–	157.00	226.00
90	–	170.00	241.00
100	–	174.00	249.00

Ceramic gauge blocks in sets

Item No.	Class	Price EUR	Size mm	Increment mm	Pie-ces
M32:			1.005	–	1
831.085	1	2,490.00	1.01 - 1.09	0.01	9
831.084	0	2,790.00	1.1 - 1.9	0.1	9
			1 - 9	1	9
			10 - 30	10	3
			50	–	1
M47:			1.005	–	1
831.081	1	4,170.00	1.00 - 1.09	0.01	10
831.080	0	5,140.00	1.1 - 1.9	0.1	9
			2 - 25	1	24
			50 - 100	25	3
M87:			0.5	–	1
831.079	1	5,150.00	1.001 - 1.009	0.001	9
831.078	0	6,100.00	1.00 - 1.50	0.01	51
			2.0 - 10.0	0.5	17
			20 - 100	10	9
M103:			0.5	–	1
831.077	1	6,240.00	1.005	–	1
831.076	0	7,390.00	1.00 - 1.50	0.01	51
			2.0 - 25.0	0.5	47
			50 - 100	25	3
M112:			0.5	–	1
831.075	1	6,600.00	1.0005	–	1
831.074	0	7,810.00	1.001 - 1.009	0.001	9
			1.00 - 1.50	0.01	51
			2.0 - 25.0	0.5	47
			50 - 100	25	3
M122:			0.5	–	1
831.073	1	7,210.00	1.0005	–	1
831.072	0	8,710.00	1.001 - 1.009	0.001	9
			1.00 - 1.50	0.01	51
			1.6 - 1.9	0.1	4
			2.0 - 25.0	0.5	47
			30 - 70	10	5
			75	–	1
			80 - 100	10	3

C11.314.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo steel and ceramic gauge blocks

The Mitutoyo gauge blocks are available in all accuracy classes of ISO 3650. Only the most commonly used sizes can be found in this catalog. Other accuracy classes and sizes are available on request. Gauge blocks from 125 mm have two coupling holes on both ends so that they can be coupled by means of a toggle clamp. Individual gauge blocks and sets are delivered with a manufacturer measuring report.

Steel

These gauge blocks are made of alloy steel, and they are completely stress-relieved and very stable.

- Hardness: 800 HV.
- Available from 0.1 up to 1000 mm.
- Sets M8, M9, M103, M112 and M122 are available on request.

Ceramics

The ceramic gauge blocks are made of zirconia. Because of this, these gauge blocks are highly durable and corrosion proof.

- Hardness: 1350 HV.
- Available from 0.5 up to 500 mm.
- Sets M8 and M103 are available on request.
- Also seperately available.



Steel gauge blocks, per piece

Size mm	Increment mm	ISO 3650/1 Price EUR	ISO 3650/0 Price EUR
0.1 - 0.19	0.01	94.10	113.00
0.2 - 0.29	0.01	78.60	94.30
0.3 - 0.39	0.01	73.20	87.60
0.4 - 0.49	0.01	68.40	82.00
0.5 - 0.69	0.01	36.50	43.70
0.7 - 0.89	0.01	35.20	42.10
0.90 - 0.99	0.01	34.30	41.00
1.0005	–	24.50	28.80
1.001 - 1.009	0.001	24.50	28.80
1.00 - 1.49	0.01	24.50	28.80
1.5 - 2.0	0.1	24.40	29.20
2.5 - 3.0	0.5	25.80	31.20
3.5 - 5.0	0.5	26.40	31.70
5.5	0.5	31.90	37.80
6.0 - 7.0	0.5	32.40	38.80
7.5 - 8.5	0.5	32.80	39.70
9.0 - 10.0	0.5	33.60	40.40
10.5	–	34.30	41.00
11.0	–	39.70	47.40
11.5 - 12.0	0.5	40.20	48.20
12.5 - 13.5	0.5	40.80	48.80
14.0 - 15.0	0.5	41.30	49.20
15.5	–	41.80	50.10
16.0	–	42.90	51.60
16.5 - 17.0	0.5	43.60	52.20
17.5 - 18.5	0.5	44.00	52.50
19.0 - 20.0	0.5	44.50	53.30
20.5	–	45.00	54.00
21.0 - 21.5	0.5	46.80	56.20
22.0 - 24.0	0.5	47.20	56.70
24.5 - 25.0	0.5	47.70	57.30
30	–	54.30	64.80
40	–	60.00	71.70
50	–	67.90	81.30
60	–	78.10	93.60
70	–	85.30	103.00
75	–	87.60	105.00
80	–	94.60	114.00
90	–	98.40	119.00
100	–	105.00	126.00

Gauge blocks in sets

Item No.	Class	Price EUR	Size mm	Increment mm	Pieces
M32, steel:			1.005	–	1
517.967	1	915.00	1.01 - 1.09	0.01	9
517.966	0	1,188.00	1.1 - 1.9	0.1	9
M32, ceramics:			1 - 9	1	9
516.367	1	1,268.00	10 - 30	10	3
516.366	0	1,647.00	60	–	1
M46, steel:			1.001 - 1.009	0.001	9
516.996	1	1,637.00	1.01 - 1.09	0.01	9
516.995	0	2,132.00	1.1 - 1.9	0.1	9
M46, ceramics:			1 - 9	1	9
516.396	1	2,406.00	10 - 100	10	10
516.395	0	3,122.00			
M47, steel:			1.005	–	1
516.963	1	1,561.00	1.01 - 1.19	0.01	19
517.962	0	2,027.00	1.2 - 1.9	0.1	8
M47, ceramics:			1 - 9	1	9
516.363	1	2,904.00	10 - 100	10	10
516.362	0	3,333.00			
M87, steel:			1.001 - 1.009	0.001	9
516.947	1	2,406.00	1.01 - 1.49	0.01	49
516.946	0	3,122.00	0.5 - 9.5	0.5	19
M87, ceramics:			10 - 100	10	10
516.347	1	4,257.00			
516.346	0	5,544.00			

C11.306.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Long gauge blocks from 125 mm

Long steel gauge blocks with an excellent price-performance ratio. These steel gauge blocks are available in the accuracy classes 0, 1 and 2 of ISO 3650. All gauge blocks have two coupling holes on both ends so that they can be coupled by means of a toggle clamp.

- Hardness: 63 - 65 HRC.
- Expansion coefficient: $(11.5 \pm 1) \cdot 10^{-6}/°C$.
- Cross-section: 35 x 9 mm.
- ISO 3650.
- Delivery in wooden case with a manufacturer measuring report.



907.707



907.741

Schut

PRICE

Size/mm	Item No.	Price EUR	Item No.	Price EUR	Item No.	Price EUR
	ISO 3650/2:		**ISO 3650/1:**		**ISO 3650/0:**	
125	907.728	56.00	907.715	66.00	907.702	112.00
150	907.729	91.00	907.716	92.00	907.703	169.00
175	907.730	92.00	907.717	109.00	907.704	181.00
200	907.731	99.00	907.718	124.00	907.705	185.00
250	907.732	112.00	907.719	148.00	907.706	231.00
300	907.733	159.00	907.720	159.00	907.707	356.00
400	907.734	180.00	907.721	278.00	907.708	371.00
500	907.735	200.00	907.722	417.00	907.709	478.00
600	907.736	514.00	907.723	764.00	907.710	1,041.00
700	907.737	571.00	907.724	813.00	907.711	1,333.00
800	907.738	684.00	907.725	938.00	907.712	1,631.00
900	907.739	843.00	907.726	1,154.00	907.713	1,815.00
1000	907.740	938.00	907.727	1,316.00	907.714	2,030.00
Gauge block set consisting of 125, 150, 175, 200, 250, 300, 400 and 500 mm:						
	907.743	586.00	907.742	733.00	907.741	1,403.00
Gauge block set consisting of 600, 700, 800, 900 and 1000 mm:						
	907.746	2,640.00	907.745	4,000.00	907.744	6,500.00

C11.301.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Select long gauge blocks from 125 mm

High quality long steel gauge blocks. These steel gauge blocks are available in the accuracy classes 0, 1 and 2 of ISO 3650. All gauge blocks have two coupling holes on both ends so that they can be coupled by means of a toggle clamp.

- Hardness: approx. 800 HV.
- Expansion coefficient: $\alpha = 11.5 \cdot 10^{-6}\ K^{-1}$.
- Cross-section: 35 x 9 mm.
- ISO 3650.
- Delivery in a luxurious wooden case with a traceable manufacturer measuring report.
- Delivery on request with a DAkkS certificate, UKAS acknowledged.
- Gauge blocks of 1000 - 1500 mm incl. a DAkkS certificate, UKAS acknowledged available on request.



831.937

Schut

SELECT

Size/mm	Item No.	Price EUR	Item No.	Price EUR	Item No.	Price EUR
	ISO 3650/2:		**ISO 3650/1:**		**ISO 3650/0:**	
125	831.019	285.00	831.008	362.00	831.000	415.00
150	831.020	305.00	831.009	387.00	831.001	444.00
175	831.021	366.00	831.010	453.00	831.002	528.00
200	831.022	393.00	831.011	470.00	831.003	564.00
250	831.023	441.00	831.012	554.00	831.936	616.00
300	831.024	492.00	831.013	593.00	831.937	702.00
400	831.025	581.00	831.981	734.00	831.946	840.00
500	831.026	637.00	831.738	847.00	831.004	1,013.00
600	831.027	986.00	831.014	1,142.00	831.947	1,367.00
700	831.028	1,169.00	831.015	1,380.00	831.005	1,652.00
800	831.029	1,483.00	831.016	1,767.00	831.948	2,190.00
900	831.030	1,830.00	831.017	2,260.00	831.006	2,860.00
1000	831.031	2,300.00	831.018	2,790.00	831.007	3,650.00
Gauge block set consisting of 125, 150, 175, 200, 250, 300, 400 and 500 mm:						
	831.088	2,620.00	831.087	3,390.00	831.086	4,020.00
Gauge block set consisting of 600, 700, 800, 900 and 1000 mm:						
	831.091	6,380.00	831.090	7,740.00	831.089	9,790.00

Mitutoyo toggle clamp for long series gauge blocks

Toggle clamp for the coupling of gauge blocks over 100 mm which have coupling holes on both ends. Very quick assembly by means of spring clamping device (with locking screw).

Item No.	Description	Price EUR
619.031	Toggle clamp for long series gauge blocks	155.00



C11.315.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Caliper inspection set

For checking the accuracy of DIN 862 calipers. The set consists of three special steel gauge blocks (30 mm, 41.3 mm and 131.4 mm, ISO 3650 class 1), two steel setting rings (ø4 mm and ø25 mm) and a pair of gloves.

- Delivery in a wooden case with a manufacturer measuring report.



Item No.	Description	Price EUR
909.347	Caliper inspection set	253.00

Micrometer inspection sets

For the inspection of micrometers according DIN 863. Suitable for micrometers with a measuring range up to 25 mm.

- Nominal sizes (mm): 2.5 - 5.1 - 7.7 - 10.3 - 12.9 - 15.0 - 17.6 - 20.2 - 22.8 - 25.0.
- Including plan parallel optical flat ø30 x 12 mm.
- Delivery in a wooden case with a manufacturer measuring report.



909.340

Item No.	Material	Grade	Price EUR
909.346	steel	1	215.00
909.345	steel	0	286.00
909.162	ceramic	1	485.00
909.340	ceramic	0	534.00

C11.320.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Gauge block accessories

Various accessories to extract the resulting size of one or more gauge blocks outside or to convert it into an inside gauge. This also enables the creation of setting gauges and marking tools. These accessories considerably increase the applicability of standard gauge blocks.



907.204



907.210



907.209



907.202





907.207

Item No.	Description	Price EUR	Set M8	Set M10	Set M12
	Holder for gauge blocks:				
907.203	Up to 50 mm	27.00	•	•	•
907.204	Up to 100 mm	37.30	•	•	•
907.205	Up to 200 mm	56.00	•	•	•
	Pair of measuring jaws, with measuring faces:				
907.206	Cylindrical ø 2 mm and flat (l=40 mm)	76.00	•	•	•
907.207	Cylindrical ø 5 mm and flat (l=45 mm)	72.00	•	•	•
907.208	Cylindrical ø10 mm and flat (l=70 mm)	63.00		•	•
907.209	Flat (l=100 mm, h=19 mm)	69.00		•	•
907.213	V-shaped (l=60 mm, max. ø60 mm)	46.00		•	•
907.210	Straight edge (l=100 mm)	12.20			•
907.211	Scriber (l=45 mm)	46.00	•	•	•
907.212	Center point (l=45 mm)	75.00	•	•	•
907.214	Base for holder (h=25 mm)	168.00	•		•
	Accessory sets, delivered in a case:				
907.200	M8	598.00			
907.201	M10	804.00			
907.202	M12	762.00			



907.213



907.211 907.212

C11.275.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Holder for gauge blocks

Holder for gauge blocks for fixation of gauge blocks for serial inspection. Can also be used in combination with inspection sets for micrometers and calipers.

- Suited for use with 10 gauge blocks.
- Anodized aluminum with steel base and hard plastic clamping blocks.
- Thickness gauge block: 9 mm conform ISO 3650.
- Delivery in a plastic carrying case incl. Allen key.



PRICE

Item No.	Description	Price EUR
910.192	Holder for gauge blocks	99.00

Holder for gauge blocks

- Anodized aluminum.
- Thickness gauge block: 9 mm conform ISO 3650.



PRICE

Item No.	Description	Price EUR
906.434	Holder for gauge blocks	20.20

Gloves

Comfortable, smooth, lint-free gloves with universal, perfect fit. Ideal for handling gauge blocks and other measuring instruments.

- Perfect thermal isolation.
- Washing machine safe.



Item No.	Description	Price EUR
191.069	Pair of gloves	7.30

Select microfibre cleaning cloth

Microfibre cleaning cloth for gauge blocks. Ideal for measuring rooms.

- Dimensions: 22.5 x 22.5 cm.



Item No.	Description	Price EUR
831.739	Microfibre cleaning cloth	6.70

C11.319.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Plastic cases for gauge blocks

Plastic cases with removeable foam inserts to store gauge blocks safely.
Available in 3 sizes.





Item No.	Gauge blocks size/mm	Price EUR
906.998	0.50 - 13.00	2.60
906.999	13.50 - 50.00	2.90
908.808	60.00 - 100.00	5.70

Wooden cases for gauge block sets

Wooden cases with cutouts and size indications for gauge block sets.



Item No.	Price EUR	Size mm	Increment mm	Pieces
M32:		1.005	–	1
910.361	33.40	1.01 - 1.09	0.01	9
		1.1 - 1.9	0.1	9
		1 - 9	1	9
		10 - 30	10	3
		50	–	1
M47:		1.005	–	1
910.362	33.40	1.01 - 1.09	0.01	9
		1.1 - 1.9	0.1	9
		1 - 24	1	24
		25 - 100	25	4
M87:		1.001 - 1.009	0.001	9
910.363	46.00	1.01 - 1.49	0.01	49
		0.5 - 9.5	0.5	19
		10 - 100	10	10
M88:		1.0005	–	1
910.364	46.00	1.001 - 1.009	0.001	9
		1.01 - 1.49	0.01	49
		0.5 - 9.5	0.5	19
		10 - 100	10	10
M103:		1.005	–	1
910.365	52.00	1.01 - 1.49	0.01	49
		0.5 - 24.5	0.5	49
		25 - 100	25	4
M112:		1.0005	–	1
910.366	52.00	1.001 - 1.009	0.001	9
		1.01 - 1.49	0.01	49
		0.5 - 24.5	0.5	49
		25 - 100	25	4

C11.318.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo maintenance kit for steel gauge blocks

Contains all neccesary requirements for the use, and maintenance, of steel gauge block.

The maintenance kit consists of:
– whetstone "Cerastone", 100 x 25 x 12 mm,
– pair of tweezers,
– dust remover,
– cleaning cloths,
– washleather,
– pipette bottle for solvent, 100 ml,
– pair of gloves,
– wooden case.



Item No.	Description	Price EUR
516.650	Maintenance kit for steel gauge blocks	606.00

Mitutoyo micrometer inspection sets

These sets are composed for the inspection of micrometers according DIN 863. Micrometers with a measuring range over 25 mm can be inspected if an extra gauge block of 25, 50 or 75 mm is used in addition to the gauge blocks in these sets. Each set consists of ten special gauge blocks and a plan parallel optical flat.

- Nominal sizes (mm): 2.5 - 5.1 - 7.7 - 10.3 - 12.9 - 15.0 - 17.6 - 20.2 - 22.8 - 25.0.
- Including plan parallel optical flat ø 30 x 12 mm.
- Delivery in a wooden case with a manufacturer measuring report.

516.156



Item No.	Material	Grade	Price EUR
516.107	steel	1	449.00
516.106	steel	0	585.00
516.157	ceramic	1	796.00
516.156	ceramic	0	918.00

Mitutoyo caliper inspection set

For checking the accuracy of DIN 862 or ISO 13385-1: 2011.
516.124: gauge blocks 30, 41.3 and 131.4 mm, setting rings ø 4 and ø 25 mm.
516.526: gauge blocks 10, 30, 50 and 125 mm, setting rings ø 4 and ø 25 mm, measuring pin ø 10 mm.

- Delivery in a wooden case with a manufacturer measuring report for the gauge blocks.



Item No.	Description	Price EUR
516.124	Inspection set DIN 862	895.00
516.526	Inspection set ISO 13385-1: 2011	1,192.00

C11.305.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Angle gauge block set

Set of twelve hardened steel angle gauge blocks, comprising the angles $^1/_4$° (15'), $^1/_2$° (30'), 1°, 2°, 3°, 4°, 5°, 10°, 15°, 20°, 25° and 30°. A combination of angle gauge blocks is possible.

- Accuracy: ±30".
- Thickness gauge blocks: 6 mm.
- Delivery in a wooden case with a declaration of conformity.



Item No.	Description	Price EUR
909.799	Angle gauge block set	85.00

Steel measuring balls

Steel measuring balls for measuring e.g. internal tapers.

- Material: chrome alloy steel.
- Hardness: 63 HRC.
- Nominal dimension tolerance: <2.5 µm.
- Roundness: <0.6 µm.
- Surface roughness: <0.05 µm.
- Two balls of each size.
- Delivery with a declaration of conformity.
- Set 909.647: Delivery in a plastic case.

Item No.	Size mm	Number per size	Price EUR
910.224	1	2	4.40
910.225	2	2	4.40
910.226	3	2	4.40
910.227	4	2	4.40
910.228	5	2	5.50
910.229	6	2	5.50
910.230	7	2	5.50
910.231	8	2	5.50
910.232	9	2	5.50
910.233	10	2	6.20
910.234	11	2	6.20
910.235	12	2	6.60
910.237	13	2	6.60
910.238	14	2	6.90
910.239	15	2	6.90
910.240	16	2	7.50
910.241	17	2	7.50
910.242	18	2	7.50
910.243	19	2	8.70
910.244	20	2	9.80
910.245	21	2	9.80
910.246	22	2	10.90
910.247	23	2	10.90
910.248	24	2	12.00
910.249	25	2	12.00



909.647

Set steel measuring balls

Item No.	Size mm	Incr. mm	Number per size	Total number	Price EUR
909.647	1 - 25	1	2	50	140.00

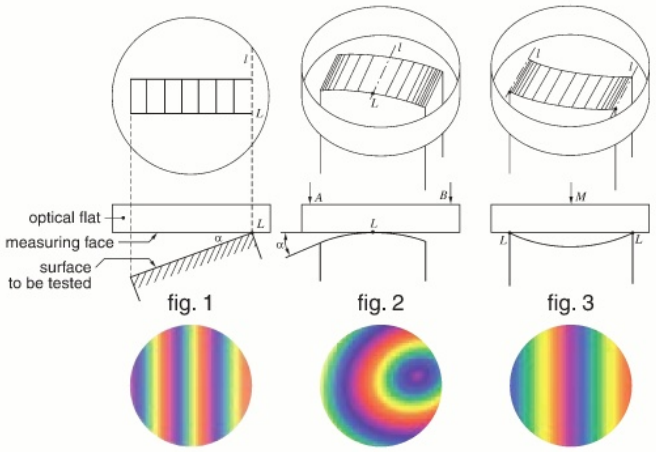
C11.212.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Select optical flats

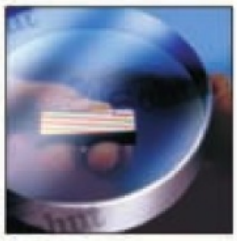
Optical flats can be used for inspection of the flatness of reflecting surfaces of for example gauge blocks, settings gauges and other lapped surfaces by optical interference.

- Flatness measuring faces: ≤0.10 µm.
- Wedge angle error: >10.0' (optical flats, double sided).
- On request with a DAkkS certificate, UKAS acknowledged.
- Delivery in an aluminum case.



Item No.	Diameter mm	Thickness mm	Price EUR
Single optical flats, single sided:			
826.625	30	15	77.00
826.626	45	15	87.00
826.627	50	20	125.00
826.628	60	20	144.00
826.629	75	20	154.00
Single optical flats, double sided:			
827.011	30	15	115.00
826.631	45	15	154.00
826.632	50	20	192.00
826.633	60	20	212.00
826.634	75	20	231.00


827.011



Select plan parallel optical flats

Plan parallel optical flats can be used for inspection of the parallelism and flatness of measuring surfaces of micrometers and other measuring instruments. Each set consists of 4 sizes plan parallel optical flats for inspection of micrometers on every fourth rotation of the spindle.

- For micrometers with a spindle pitch of 0.5 mm.
- Sets for micrometers with a measuring range of 0 - 25 mm, 25 - 50 mm, 50 - 75 mm and 75 - 100 mm.
- Diameter: 30 mm.
- On request with a DAkkS certificate, UKAS acknowledged.
- Delivery in an aluminum case.


826.635

Item No.	Thicknesses/mm	Flatness measuring faces:	Parallelism measuring faces:	Price EUR
826.635	12.00/12.12/12.25/12.37	≤0.15 µm	≤0.3 µm	346.00
826.636	25.00/25.12/25.25/25.37	≤0.15 µm	≤0.3 µm	423.00
827.873	50.00/50.12/50.25/50.37	≤0.20 µm	≤0.5 µm	519.00
827.874	75.00/75.12/75.25/75.37	≤0.20 µm	≤0.5 µm	731.00
Option:				
826.630	Single plan parallel optical flat, thickness 12.00 mm	≤0.15 µm	≤0.3 µm	135.00



C09.314.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Feeler gauges

Feeler gauge sets in a holder, for individual use or in combination to measure slits and gaps as well as checking the amount of clearance in sliding guides, bearings, pistons etc.

- Measuring range: 0.03 - 2.00 mm.
- Blade length: 100 mm.
- Nickel plated handle with locking screw.
- Blade width: 10 mm (except stainless steel models: 12 mm), tapered.
- Accuracy according DIN 2275 T2.
- Also available in brass model (anti-magnetic).





910.020

Item No.	Number of blades	Increment(s) 0.01 mm	0.02 mm	0.05 mm	0.10 mm	Material	Price EUR
909.904	8			0.05→0.30	0.40→0.50	hardened steel	1.70
909.905	8			0.05→0.30	0.40→0.50	stainless steel	4.50
909.906	8			0.05→0.30	0.40→0.50	brass	5.80
909.907	13			0.05→0.30	0.40→1.00	hardened steel	2.00
909.908	13			0.05→0.30	0.40→1.00	stainless steel	5.00
909.909	13			0.05→0.30	0.40→1.00	brass	9.00
910.019	20			0.05→1.00		hardened steel	3.10
910.020	20			0.05→1.00		stainless steel	7.40
910.021	20			0.05→1.00		brass	13.90
910.022	8	0.03→0.10				hardened steel	1.70
910.023	10	0.03→0.05		0.10→0.30	0.40→0.50	hardened steel	2.00
910.024	10				0.10→1.00	hardened steel	2.00
910.026	14	0.03→0.10		0.15→0.30	0.40→0.50	hardened steel	2.00
910.027	18	0.05→0.10		0.15→0.40	0.50→1.00	hardened steel	2.80
910.028	19	0.03→0.10		0.15→0.30	0.40→1.00	hardened steel	3.10
910.029	20	0.04→0.10		0.15→0.50	0.60→1.00	hardened steel	3.10
908.978	22	0.03→0.05		0.10→1.00		hardened steel	3.40
908.979	28	0.03→0.10	0.12→0.50			hardened steel	5.10
910.034	21			0.05→0.10	0.20→2.00	hardened steel	5.60

C11.214.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Feeler gauges

- Measuring range: 0.05 - 2.00 mm; 20 blades: 0.05 / 0.10 → 1.00 (except 856.069: 20 blades: 0.10 / 0.10 → 2.00).
- Material: hardened steel.
- Blade width: 12.8 mm (except 856.069: 13.8 mm).



Item No.	Blade length/mm	Price EUR
910.030	200	10.40
910.031	300	14.80
910.033	500	23.90
856.069	200	17.90



910.031

HELIOS-PREISSER feeler stock coils

Feeler stock coils made of steel.

- Measuring range: 0.005 - 1.00 mm.
- Length: 5 m.
- Width: 13 mm.
- Other widths or material (stainless steel or brass) available on request.



856.045



856.030



856.032

Item No.	Thickness/mm	Price EUR
856.036	0.005	90.00
856.037	0.01	51.00
856.038	0.02	38.90
856.039	0.03	14.70
856.040	0.04	14.70
856.041	0.05	12.40
856.042	0.06	10.80
856.043	0.07	10.80
856.044	0.08	10.80
856.045	0.09	10.80
856.046	0.10	10.80
856.047	0.12	10.80
856.048	0.15	10.80
856.049	0.18	10.80
856.050	0.20	10.80
856.051	0.25	10.80
856.052	0.30	10.80
856.053	0.35	12.40
856.054	0.40	12.40
856.055	0.45	12.40
856.056	0.50	12.40
856.057	0.55	18.60
856.058	0.60	18.60
856.059	0.65	18.60
856.060	0.70	18.60
856.061	0.75	18.60
856.062	0.80	18.60
856.063	0.85	18.60
856.064	0.90	19.80
856.065	0.95	19.80
856.066	1.00	19.80

Options

Item No.	Description	Price EUR
856.030	Set 0.01 - 0.25 mm	261.00
856.031	Set 0.3 - 1.00 mm	283.00
856.032	Holder for feeler stock coils	3.40

C11.215.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Gauges / Pin gauges / Thread and tolerance tables



C12.001.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Plug gauges

Manufactured according DIN 2245, 2246 and 2247. Available from 0.5 to 160 mm; up to 70 mm with Go and NoGo on one handle, over 70 mm in two parts. Prices are for H7 plug gauges with Go and NoGo ends in hardened steel.

- H7 fit size in hardened steel.
- Available from 0.5 to 160 mm; up to 70 mm with Go and NoGo on one handle, over 70 mm in two parts.
- Including wear allowance at the Go end.







Wear allowance

New gauges are supplemented with a wear allowance on the Go end: z (plus) for plug gauges. Accordingly, the size indicated on the handle is not similar to the measured value of the new Go end.

Example: plug gauge 20 H7

New Go end:

size	20.000 mm
wear allowance (+z)	0.003 mm
	20.003 mm
manufacturing tolerance	± 0.002 mm
largest value measured	20.005 mm
smallest value measured	20.001 mm

Also available:

– larger sizes,
– without wear allowance,
– many other fit sizes, like H6, H8, P7, G7 etc.,
– hard-chrome plated plug gauges,
– tungsten carbide plug gauges,
– extended plug gauges,
– plug gauges with vent hole,
– plug gauges with easy-entry pilot.

Schut

Measuring reports

For all gauges also measuring reports can be ordered.

① Manufacturer measuring report (German) per gauge. Stating of product specifications, measured values after production, used traceable measuring devices, measuring inaccuracy and measuring date. A favourable choice when your quality system does not require traceable certificates.

② Traceable certificate (Dutch) with measuring reports of the ordered gauges. Besides stating of the measured values the extra assurance of an external inspection.

Size H7 mm	Price EUR	Size H7 mm	Price EUR	Size H7 mm	Price EUR	Size H7 mm	Price EUR	Size H7 mm	Price EUR
1	67.00	10	45.00	24	66.00	42	96.00	70	166.00
1.5	61.00	11	47.00	25	67.00	44	102.00	72	173.00
2	54.00	12	48.00	26	68.00	45	105.00	75	181.00
2.5	54.00	13	50.00	27	70.00	46	108.00	78	190.00
3	47.00	14	51.00	28	72.00	47	111.00	80	192.00
3.5	42.00	15	52.00	30	73.00	48	114.00	82	204.00
4	42.00	16	54.00	32	79.00	50	117.00	85	210.00
4.5	42.00	17	55.00	33	82.00	52	122.00	88	219.00
5	39.30	18	57.00	34	83.00	55	128.00	90	225.00
5.5	39.30	19	58.00	35	85.00	58	137.00	92	231.00
6	39.30	20	58.00	36	86.00	60	143.00	95	237.00
7	41.00	21	61.00	37	88.00	62	149.00	98	246.00
8	42.00	22	63.00	38	90.00	65	153.00	100	252.00
9	44.00	23	64.00	40	93.00	68	163.00		

Larger sizes available on request.

C12.202.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Plug gauges H7

Manufactured according DIN EN ISO 1938. Available from 1 to 100 mm with Go and NoGo on one handle.

- DIN 7162 and 7164.
- H7 fit size in hardened steel.
- With serial number.
- Delivery with a manufacturer measuring report.
- Individual plug gauges delivered in a plastic tube. Set delivered in a plastic case.
- Including wear allowance at the Go end.





Wear allowance

New gauges are supplemented with a wear allowance on the Go end: *z* (plus) for plug gauges. Accordingly, the size indicated on the handle is not similar to the measured value of the new Go end.

Item No.	Size H7 mm	Price EUR	Item No.	Size H7 mm	Price EUR	Item No.	Size H7 mm	Price EUR
911.000	1	31.60	911.023	19	18.40	911.047	47	46.00
911.001	1.5	28.40	911.024	20	20.30	911.048	48	46.00
911.002	2	16.30	911.025	21	20.30	911.049	50	46.00
911.003	2.5	15.10	911.026	22	20.30	911.050	52	54.00
911.004	3	15.10	911.027	23	20.40	911.051	55	54.00
911.005	3.5	15.10	911.028	24	20.40	911.052	58	58.00
911.006	4	15.10	911.029	25	20.40	911.053	60	58.00
911.007	4.5	15.10	911.030	26	23.10	911.054	62	58.00
911.008	5	15.10	911.031	27	23.10	911.055	65	72.00
911.009	5.5	15.10	911.032	28	23.10	911.056	68	73.00
911.010	6	12.20	911.033	30	25.80	911.057	70	76.00
911.011	7	13.60	911.034	32	25.80	911.058	72	76.00
911.012	8	13.60	911.035	33	27.60	911.059	75	84.00
911.013	9	13.60	911.036	34	28.40	911.060	78	84.00
911.014	10	13.60	911.037	35	30.00	911.061	80	88.00
911.015	11	14.60	911.038	36	30.00	911.062	82	105.00
911.016	12	14.60	911.039	37	30.00	911.063	85	105.00
911.017	13	14.60	911.040	38	30.00	911.064	88	105.00
911.018	14	14.60	911.041	40	30.00	911.065	90	112.00
911.019	15	16.00	911.042	42	36.50	911.066	92	115.00
911.020	16	16.80	911.043	44	41.00	911.067	95	118.00
911.021	17	16.80	911.044	45	46.00	911.068	98	127.00
911.022	18	16.80	911.045	46	46.00	911.069	100	131.00

Set plug gauges

Item No.	Description	Price EUR
911.157	Plug gauges (Go + NoGo) H7: 3, 4, 5, 6, 8, 10, 12 mm	103.00

C12.307.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Plug gauges G7

Manufactured according DIN 7162. Available from 1 to 20 mm; with Go and NoGo on one handle.

- DIN 7162.
- G7 fit size in hardened steel.
- Available from 1 to 20 mm; with Go and NoGo on one handle.
- With serial number.
- Delivery in a plastic tube with a manufacturer measuring report.
- Including wear allowance at the Go end.

Wear allowance

New gauges are supplemented with a wear allowance on the Go end: *z* (plus) for plug gauges. Accordingly, the size indicated on the handle is not similar to the measured value of the new Go end.



Schut

PRICE

Item No.	Size G7 mm	Price EUR
911.158	1	39.90
911.159	1.5	35.80
911.160	2	20.50
911.161	2.5	19.00
911.162	3	19.00
911.163	3.5	19.00
911.164	4	19.00
911.165	4.5	19.00
911.166	5	19.00
911.167	5.5	19.00
911.168	6	15.30
911.169	7	17.20
911.170	8	17.20
911.171	9	17.20
911.172	10	17.20
911.173	11	18.40
911.174	12	18.40
911.175	13	18.40
911.176	14	18.40
911.177	15	20.10
911.178	16	21.10
911.179	17	21.10
911.180	18	21.10
911.181	19	23.20
911.182	20	25.60





NEW

C12.310.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Pin gauges in sets

Hardened steel pin gauges in sets with favourable price-performance ratio, very well suited for workshop use. Delivery in plastic case with a declaration of conformity and holder for Go/NoGo determination.

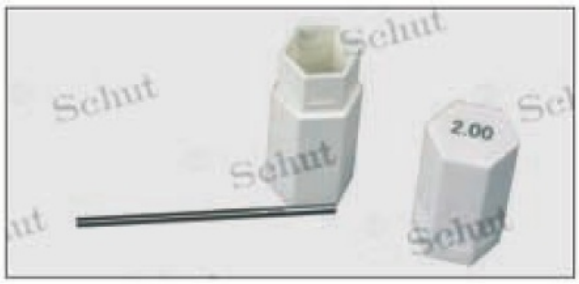
- Hardened steel.
- Diameter range: 0.20 - 20.00 mm.
- Increment: 0.01 mm or 0.1 mm.
- Accuracy: ±0.003 mm.
- Without handle.
- Pin gauges >ø 1.5 mm with size indication.
- Length: 50 mm.
- Delivery in a plastic carrying case with a declaration of conformity with pin gauges in separate plastic tubes with size indication.
- Delivery with holder with Go/NoGo indication.



Item No.	Diameter mm	Increment mm	Number per set	Price EUR
910.367	0.20 - 10.00	0.1	99	199.00
910.368	10.00 - 20.00	0.1	101	345.00
910.193	0.50 - 1.00	0.01	51	140.00
910.194	1.00 - 2.00	0.01	101	179.00
910.195	2.00 - 3.00	0.01	101	179.00
910.196	3.00 - 4.00	0.01	101	179.00
910.197	4.00 - 5.00	0.01	101	179.00
910.198	5.00 - 6.00	0.01	101	204.00
910.199	6.00 - 7.00	0.01	101	204.00
910.200	7.00 - 8.00	0.01	101	204.00
910.201	8.00 - 9.00	0.01	101	204.00
910.202	9.00 - 10.00	0.01	101	204.00
910.203	10.00 - 11.00	0.01	101	260.00
910.204	11.00 - 12.00	0.01	101	260.00
910.205	12.00 - 13.00	0.01	101	281.00
910.206	13.00 - 14.00	0.01	101	281.00
910.207	14.00 - 15.00	0.01	101	303.00
910.208	15.00 - 16.00	0.01	101	303.00
910.209	16.00 - 17.00	0.01	101	404.00
910.210	17.00 - 18.00	0.01	101	404.00
910.211	18.00 - 19.00	0.01	101	404.00
910.212	19.00 - 20.00	0.01	101	505.00
Holders for Go/NoGo determination:				
910.213	Pin gauge handle Go-NoGo 0.5-13 mm			16.80
910.214	Pin gauge handle Go-NoGo 13-20 mm			16.80
Holders for Go/NoGo determination:				
910.378	0.30 - 1.50			16.80
910.379	1.20 - 6.50			20.80
910.380	5.00 - 14.00			25.80
910.381	12.00 - 16.50			30.90
910.382	14.00 - 19.50			36.50
910.383	18.00 - 22.00			41.00



910.195





910.213



910.379
910.378

C12.306.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Pin gauges

Swiss made, hardened and ground steel pin gauges, conforms to DIN 2269; available separately and in sets.

- Hardened, ground, and seasoned steel (HV 760 ± 50).
- Diameter range: without handle: 0.06 - 20.00 mm, with handle: 0.06 - 10.00 mm.
- Increment: 0.01 mm.
- Accuracy: ±0.0015 mm.
- Pin gauges ø5.00 - 20.00 mm without handle: indication on head.





Also available:
With an accuracy of ±0.0003 or ±0.001 mm;
– hardened steel ø0.06 - 20.00 mm,
– tungsten carbide or ceramics ø0.50 - 9.99 mm,
with 0.01 mm increments. The length may deviate. More information available on request.

Diameter/mm	Length/mm	Price EUR
Pin gauge without handle:		
0.06 - 0.09[1]	30	119.00
0.10 - 0.19[1]	40	86.00
0.20 - 0.29[1]	40	53.00
0.30 - 0.49[1]	40	30.10
0.50 - 0.99[1]	40	17.00
1.00 - 2.99	70	13.10
3.00 - 4.00	70	17.00
4.01 - 5.00	70	17.00
5.01 - 5.99	70	17.00
6.00 - 9.99	70	22.50
10.00 - 11.99	70	27.10
12.00 - 13.99	70	31.40
14.00 - 15.99	70	39.10
16.00 - 18.99	70	48.00
19.00 - 20.00	70	56.00
Pin gauge with handle[2]:		
0.06 - 0.09[1]	23	134.00
0.10 - 0.19[1]	33	100.00
0.20 - 0.29[1]	33	68.00
0.30 - 0.49[1]	33	38.90
0.50 - 0.99[1]	33	25.80
1.00 - 2.99	62	22.00
3.00 - 4.00	62	40.00
4.01 - 5.00	62	40.00
5.01 - 5.99	62	40.00
6.00 - 10.00	62	46.00

[1] Delivered in a plastic transport case.
[2] The length here indicates the measuring length and not the total length of the pin gauges.

Item No.	Description	Price EUR
Wooden case (tubes not included):		
833.211	For 50 pin gauges ø0.10 - 10.00 mm without handle	166.00
833.704	For 100 pin gauges ø0.10 - 10.00 mm without handle	
833.264	For 50 pin gauges ø0.10 - 10.00 mm with handle	
833.118	For 40 pin gauges ø10.01 - 15.00 mm	
833.705	For 80 pin gauges ø10.01 - 15.00 mm	
833.706	For 30 pin gauges ø15.01 - 20.00 mm	
Plastic tubes for pin gauges[1]:		
833.066	Without handle up to ø0.99 mm	2.30
838.224	Without handle ø1.00 - 7.00 mm	2.30
838.089	With handle up to ø0.99 mm	2.20

[1] For insert in wooden case.



C12.204.EN.20230516

Pin gauges without handle in sets

- Hardened, ground, and seasoned steel (HV 760 ± 50).
- Diameter range: 0.10 - 10.00 mm.
- Increment: 0.01 mm.
- Accuracy: ± 0.0015 mm.
- Pin gauges ø 5.00 - 10.00 mm: indication on head.
- Length: ø 0.10 - 0.99 mm: 40 mm, ø 1.00 - 10.00 mm: 70 mm.
- Sets with larger diameters and/or with handle are available on request.



Set pin gauges without handle

Item No.	Diameter mm	Increment mm	Number per set	Price* EUR
833.901	0.10 - 1.00	0.01	91	2,100.00
833.902	1.00 - 2.00	0.01	101	1,397.00
833.903	2.00 - 3.00	0.01	101	1,384.00
833.904	3.00 - 4.00	0.01	101	1,717.00
833.905	4.00 - 5.00	0.01	101	1,717.00
833.906	5.00 - 6.00	0.01	101	1,717.00
833.907	6.00 - 7.00	0.01	101	2,100.00
833.908	7.00 - 8.00	0.01	101	2,100.00
833.909	8.00 - 9.00	0.01	101	2,100.00
833.910	9.00 - 10.00	0.01	101	2,100.00
834.190	1.00 - 10.00	0.10	91	1,653.00

* Prices per set, in a wooden case.


Individual pin gauges without handle

Pin gauges accessories

Interchangeable handles

- For pin gauges without handle.



Item No.	For diameter/mm	Price EUR
836.043	0.40 - 0.80	9.50
834.172	0.80 - 1.30	9.50
836.044	1.30 - 1.80	9.50
836.045	1.80 - 2.30	9.50
837.615	2.30 - 2.80	9.50
837.956	2.80 - 3.30	9.50
837.957	3.30 - 3.80	9.50
837.958	3.80 - 4.30	9.50
837.959	4.30 - 4.80	9.50
837.960	4.80 - 5.30	9.50

Holders for Go/NoGo determination

- For two pin gauges without handle.
- With NoGo indication.



Item No.	For diameter/mm	Price EUR
833.310	1.00 - 2.00	32.50
833.311	2.00 - 4.00	36.00
833.312	4.00 - 6.00	66.00
833.313	6.00 - 8.00	90.00
833.314	8.00 - 10.00	101.00

Schut

SWISS MADE

C12.203.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Plug gauges

Ground and lapped, hardened tool steel plug gauges with a high accuracy. Available per piece and in sets. Swiss made.

- Diameter range: ø0.06 - 10.00 mm.
- Increment: 0.01 mm.
- Accuracy: ±0.0005 mm.
- Hardened tool steel (HV 760±50). Ground and lapped.
- Measuring length (and total length):
  ø0.06 - 0.30 mm: 2 mm (34 mm),
  ø0.31 - 0.50 mm: 3.5 mm (35.5 mm),
  ø0.51 - 1.50 mm: 5 mm (37 mm),
  ø1.51 - 2.00 mm: 6 mm (38 mm),
  ø2.01 - 3.50 mm: 8 mm (43 mm),
  ø3.51 - 6.00 mm: 10 mm (55 mm),
  ø6.01 - 8.00 mm: 14 mm (59 mm),
  ø8.01 - 10.00 mm: 18 mm (63 mm).
- Size indication on the insulated handle.
- Also available in tungsten carbide and ceramic with an accuracy of ±0.001 mm.



Per piece

Diameter/mm	Price EUR
0.06 - 0.09	34.40
0.10 - 0.19	27.10
0.20 - 0.29	24.80
0.30 - 0.49	15.60
0.50 - 0.99	15.10
1.00 - 2.99	15.20
3.00 - 5.99	19.80
6.00 - 10.00	27.10

Sets

Item No.	Diameter mm	Pieces	Price EUR
833.761	0.06 - 0.50	45	1,128.00
833.762	0.51 - 1.00	50	889.00
833.763	1.01 - 1.50	50	870.00
833.764	1.51 - 2.00	50	870.00
833.765	2.01 - 2.50	50	870.00
833.766	2.51 - 3.00	50	870.00
833.767	3.01 - 3.50	50	1,056.00
833.768	3.51 - 4.00	50	1,056.00
837.311	4.01 - 4.50	50	1,056.00
837.312	4.51 - 5.00	50	1,056.00
837.313	5.01 - 5.50	50	1,056.00
837.314	5.51 - 6.00	50	1,056.00
837.315	6.01 - 6.50	50	1,504.00
837.316	6.51 - 7.00	50	1,504.00
837.317	7.01 - 7.50	50	1,504.00
837.318	7.51 - 8.00	50	1,504.00
837.319	8.01 - 8.50	50	1,504.00
837.320	8.51 - 9.00	50	1,504.00
837.321	9.01 - 9.50	50	1,504.00
837.322	9.51 - 10.00	50	1,504.00



SWISS MADE

Schut

Select setting rings

Setting rings, manufactured according DIN 2250 form C, 1 to 4 mm.

The size is indicated on the ring to three decimal places.

For all gauges also measuring reports can be ordered.

SELECT



830.003 830.007 830.009



830.001

Item No.	Size/mm	Price EUR
830.001	1	199.00
830.002	1.2	190.00
830.003	1.5	183.00
830.004	1.8	177.00
830.005	2	180.00
830.006	2.2	166.00
830.007	2.5	159.00
830.008	2.8	154.00
830.009	3	70.00
830.010	4	39.60

C12.302.EN.20230516

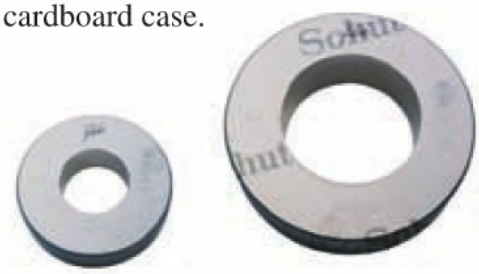
© 2023, Schut Geometrische Meettechniek bv

Setting rings

Manufactured according DIN 2250 form C. Available from 3 to 200 mm.

- DIN 2250 form C.
- Material: hardened steel.
- The size is indicated on the setting rings to three decimal places.
- With serial number.
- Delivery with a manufacturer measuring report.
- Individual setting rings from 3 - 32 mm: delivery in a plastic case, individual setting rings from 33 - 200 mm: delivery in a cardboard case.





Schut

PRICE

Item No.	Size mm	Price EUR	Item No.	Size mm	Price EUR	Item No.	Size mm	Price EUR
911.070	3	23.70	911.099	33	31.80	911.131	88	110.00
911.071	4	23.70	911.100	34	31.80	911.132	90	110.00
911.072	5	23.70	911.101	35	31.80	911.133	92	110.00
911.073	6	21.10	911.102	36	33.70	911.134	95	118.00
911.074	7	21.10	911.103	37	33.70	911.135	98	136.00
911.075	8	21.10	911.104	38	33.70	911.136	100	136.00
911.076	9	21.10	911.105	40	33.70	911.137	105	154.00
911.077	10	21.10	911.106	42	38.50	911.138	110	161.00
911.079	11	23.00	911.107	44	38.50	911.139	115	174.00
911.080	12	23.00	911.108	45	38.50	911.140	120	192.00
911.081	13	23.00	911.109	46	46.00	911.141	125	207.00
911.082	14	23.00	911.110	47	46.00	911.142	130	217.00
911.083	15	23.00	911.114	48	46.00	911.143	135	232.00
911.084	16	24.80	911.115	50	46.00	911.144	140	255.00
911.085	17	24.80	911.116	52	51.00	911.145	145	278.00
911.086	18	24.80	911.117	55	51.00	911.146	150	283.00
911.087	19	24.80	911.118	58	57.00	911.147	155	306.00
911.088	20	24.80	911.120	60	57.00	911.148	160	323.00
911.089	21	28.10	911.121	62	70.00	911.149	165	356.00
911.090	22	28.10	911.122	65	70.00	911.150	170	382.00
911.091	23	28.10	911.123	68	78.00	911.151	175	407.00
911.092	24	28.10	911.124	70	78.00	911.152	180	458.00
911.093	25	28.10	911.125	72	84.00	911.153	185	506.00
911.094	26	28.10	911.126	75	84.00	911.154	190	546.00
911.095	27	28.10	911.127	78	84.00	911.155	195	597.00
911.096	28	28.10	911.128	80	84.00	911.156	200	632.00
911.097	30	28.10	911.129	82	101.00			
911.098	32	31.80	911.130	85	101.00			

C12.308.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Setting rings

Setting rings, manufactured according DIN 2250 form C, 1 to 315 mm.

- DIN 2250 form C.
- Material: hardened steel.
- The size is indicated on the setting rings to three decimal places to 100 mm. From 100 mm the nominal size is indicated in mm and separately the deviation in µm.
- Price on request up to 3 mm.

Also available:
– Higher accuracy,
– in tungsten carbide from 3 to 38 mm,
– form B rings for pneumatic measuring tools,
– intermediate and larger sizes,
– with coating,
– Go and NoGo limit ring gauges.





Size mm	Price EUR	Size mm	Price EUR	Size mm	Price EUR	Size mm	Price EUR	Size mm	Price EUR
1		18	55.00	43	81.00	80	162.00	165	463.00
1.2		19	56.00	44	82.00	82	170.00	170	496.00
1.5		20	57.00	45	83.00	84	178.00	175	529.00
1.8		21	58.00	46	85.00	85	182.00	180	563.00
2		22	58.00	47	87.00	86	194.00	185	596.00
2.2		23	59.00	48	89.00	88	198.00	190	629.00
2.5		24	60.00	49	93.00	90	203.00	195	662.00
2.8		25	61.00	50	94.00	92	210.00	200	695.00
3		26	62.00	52	96.00	94	222.00	210	730.00
3.5	52.00	27	63.00	54	103.00	95	228.00	220	766.00
4	50.00	28	63.00	55	106.00	96	234.00	230	802.00
4.5	50.00	29	64.00	56	109.00	98	238.00	240	837.00
5	49.00	30	65.00	58	111.00	100	242.00	250	949.00
6	49.00	31	66.00	60	113.00	105	255.00	260	987.00
7	49.00	32	67.00	62	118.00	110	267.00	270	1,026.00
8	49.00	33	67.00	64	127.00	115	279.00	280	1,064.00
9	49.00	34	68.00	65	130.00	120	291.00	290	1,103.00
10	49.00	35	69.00	66	132.00	125	303.00	300	1,142.00
11	49.00	36	69.00	68	135.00	130	315.00	310	1,186.00
12	50.00	37	70.00	70	138.00	135	327.00	315	1,203.00
13	52.00	38	71.00	72	143.00	140	339.00		
14	52.00	39	73.00	74	149.00	145	352.00	*Intermediate*	
15	53.00	40	75.00	75	153.00	150	364.00	*sizes over*	
16	54.00	41	77.00	76	156.00	155	397.00	*3 mm are also*	
17	54.00	42	79.00	78	160.00	160	430.00	*available*	

Measuring reports

For all gauges also measuring reports can be ordered.

① Manufacturer measuring report (German) per gauge. Stating of product specifications, measured values after production, used traceable measuring devices, measuring inaccuracy and measuring date. A favourable choice when your quality system does not require traceable certificates.

② Traceable certificate (Dutch) with measuring reports of the ordered gauges. Besides stating of the measured values the extra assurance of an external inspection.

C12.205.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Taper gauges

To increase the already large capacity to transmit moments, some taper gauges are furnished with a lip which functions as catch lock.



832.539



832.560



832.540



832.561

Morse taper gauges

Indication Morse	Without lip, DIN 229 Item No.	Price EUR	Item No.	Price EUR	With lip, DIN 230 Item No.	Price EUR	Item No.	Price EUR
	Plug:		**Ring:**		**Plug:**		**Ring:**	
0	832.531	80.00	832.532	201.00	832.552	116.00	832.553	313.00
1	832.533	84.00	832.534	196.00	832.554	119.00	832.555	307.00
2	832.535	94.00	832.536	191.00	832.556	135.00	832.557	301.00
3	832.537	112.00	832.538	231.00	832.558	164.00	832.559	361.00
4	832.539	141.00	832.540	286.00	832.560	201.00	832.561	446.00
5	832.541	209.00	832.542	387.00	832.562	282.00	832.563	602.00
6	832.543	283.00	832.544	612.00	832.564	414.00	832.565	988.00

Metric taper gauges

Indication metric	Without lip, DIN 234 Item No.	Price EUR	Item No.	Price EUR	With lip, DIN 235 Item No.	Price EUR	Item No.	Price EUR
	Plug:		**Ring:**		**Plug:**		**Ring:**	
4	804.001	104.00	804.011	322.00	–		–	
6	804.002	104.00	804.012	322.00	–		–	
80	804.003	499.00	804.013	1,051.00	804.021	655.00	804.031	1,710.00
100	804.004	780.00	804.014	1,415.00	804.022	1,030.00	804.032	2,320.00
120	804.005	1,170.00	804.015	2,220.00	804.023	1,488.00	804.033	3,310.00

Short taper gauges

Indication SK	Plug, DIN 2079 Item No.	Price EUR	Ring, DIN 2080 Item No.	Price EUR
30	832.568	181.00	832.569	291.00
40	832.570	221.00	832.571	381.00
50	832.572	311.00	832.573	632.00
60	832.574	627.00	832.575	1,074.00



832.568



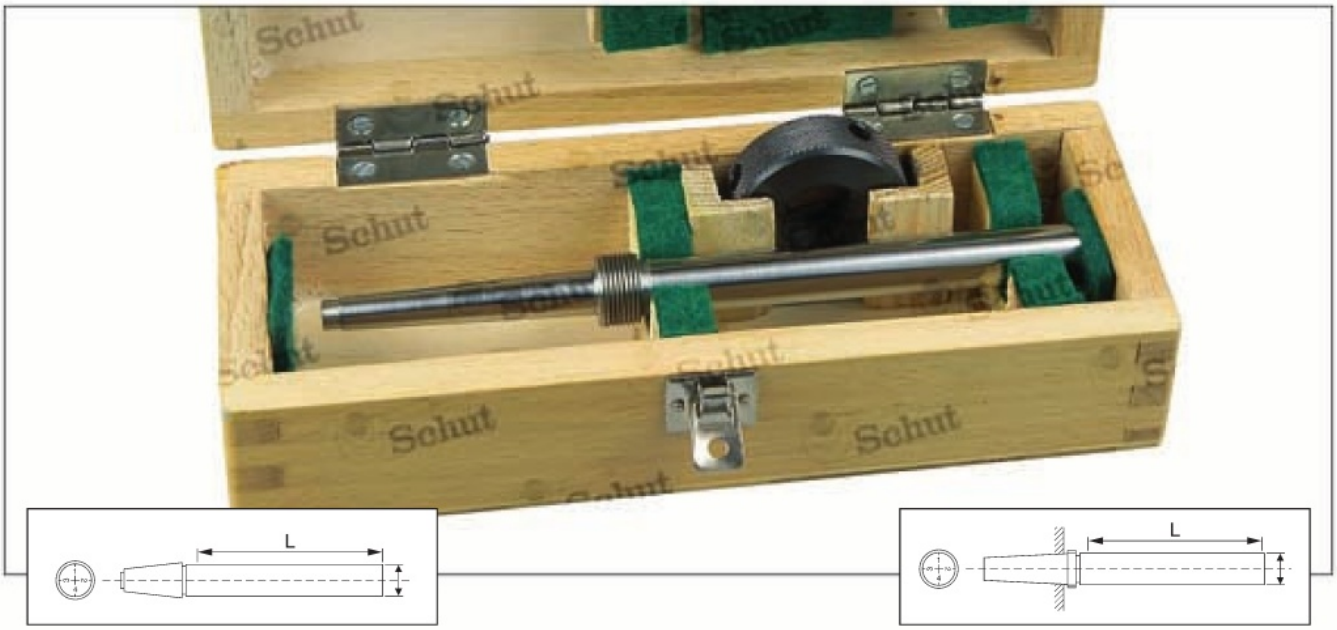
832.571

C12.206.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Measuring mandrels

The cylinders are hollow and have four marks on the cylinder wall near the thread and numbered marks in successive distances of 90° on the face. The cylinder and the front face are ground and lapped. The hardness is (60 ± 2) HRc.



Measuring mandrels with internal thread, without external screw thread and nut

Item No.	Cone	Dimensions cylinder ø/mm	length/mm	Price EUR
832.591	Sc 20	24	150	
832.592	Sc 30	32	200	
832.593	Sc 30	32	300	
832.594	Sc 40	40	300	
832.595	Sc 45	40	300	
832.596	Sc 50	40	300	
832.597	Sc 50	63	500	

Specifications of the accuracy:
straightness of the cylinder ≤ 3 µm, out of roundness ≤ 3 µm, eccentricity ≤ 3 µm.

Measuring mandrels without draw bar thread, with external screw thread and nut

Item No.	Cone	Dimensions cylinder ø/mm	length/mm	Price EUR
832.581	Mc 0	12	75	
832.582	Mc 1	12	75	
832.583	Mc 2	24	150	
832.584	Mc 3	32	200	
832.585	Mc 4	40	300	
832.586	Mc 5	40	300	
832.587	Mc 6	63	500	
832.588	Mec 80	80	500	

Other models are available.

Gauges for keyway depths on shafts

- Available in all common fits.
- Prices available on request.





Schut

C12.207.EN.20230516

Thread gauges

The prices of the thread gauges apply to the following tolerances:

Kind of thread	Tolerances	
	Thread plug gauge	Thread ring gauge
Metric thread according ISO 1502 (DIN 13) up to and incl. M1.4 larger than M1.4	 5H 6H	 6h 6g (standard) 4h and 6e
Fixing pipe thread DIN EN ISO 228	center	A
Trapezoidal thread DIN 103	7H	7e

Other tolerances, sizes and kinds of threads are available on request; also available are special screw threads as per your design. Left-hand screw thread: price on request.



Measuring reports

For all gauges also measuring reports can be ordered.

① Manufacturer measuring report (German) per gauge. Stating of product specifications, measured values after production, used traceable measuring devices, measuring inaccuracy and measuring date. A favourable choice when your quality system does not require traceable certificates.

② Traceable certificate (Dutch) with measuring reports of the ordered gauges. Besides stating of the measured values the extra assurance of an external inspection.

Thread plug and ring gauges

Hardened steel thread plug gauges (up to M39: Go + NoGo, from M42: Go and NoGo separate) and thread ring gauges (Go or NoGo) for metric screw thread (ISO) with coarse pitch. Manufactured according ISO 1502 (DIN 13).

Indication **M...**	Price EUR Thread plug	Price EUR Thread ring
1 x 0.25		
1.2 x 0.25		
1.4 x 0.3		
1.6 x 0.35		
1.8 x 0.35		
2 x 0.4		
2.2 x 0.45		
2.5 x 0.45		
3 x 0.5	66.00	55.00
3.5 x 0.6	64.00	51.00
4 x 0.7	61.00	50.00
4.5 x 0.75	61.00	50.00
5 x 0.8	60.00	50.00
6 x 1	58.00	50.00
8 x 1.25	60.00	51.00
10 x 1.5	64.00	60.00
12 x 1.75	68.00	69.00
14 x 2	74.00	76.00
16 x 2	79.00	85.00
18 x 2.5	85.00	96.00
20 x 2.5	91.00	107.00
22 x 2.5	96.00	117.00
24 x 3	108.00	125.00
27 x 3	121.00	139.00
30 x 3.5	133.00	153.00
33 x 3.5	145.00	167.00
36 x 4	157.00	180.00
39 x 4	173.00	196.00

Indication **M...**	Thread plug Go	Thread plug NoGo	Thread ring
42 x 4.5	105.00	94.00	212.00
45 x 4.5	113.00	102.00	225.00
48 x 5	122.00	111.00	238.00
52 x 5	130.00	118.00	256.00
56 x 5.5	144.00	130.00	274.00
60 x 5.5	153.00	139.00	293.00

Also most common sets available.

Schut

C12.208.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Thread plug and ring gauges (continued)

Hardened steel thread plug gauges (Go + NoGo) and thread ring gauges (Go or NoGo) for metric screw thread (ISO) with pitch 0.5. Manufactured according ISO 1502 (DIN 13).

Indication **M... x 0.5**	Price EUR Thread plug	Price EUR Thread ring
5		
6		
8		
10		
12		
14		
16		
18		
20		



Schut

Hardened steel thread plug gauges (Go + NoGo) and thread ring gauges (Go or NoGo) for metric screw thread (ISO) with pitch 0.75. Manufactured according ISO 1502 (DIN 13).

Indication **M... x 0.75**	Price EUR Thread plug	Price EUR Thread ring
6	68.00	60.00
8	72.00	62.00
10	74.00	68.00
12	79.00	76.00
14	85.00	85.00
16	92.00	93.00
18	96.00	100.00
20	103.00	107.00
22	115.00	117.00
24	122.00	125.00
26	130.00	135.00
28	137.00	144.00
30	149.00	153.00

Hardened steel thread plug gauges (Go + NoGo) and thread ring gauges (Go or NoGo) for metric screw thread (ISO) with pitch 1. Manufactured according ISO 1502 (DIN 13).

Indication **M... x 1**	Price EUR Thread plug	Price EUR Thread ring
8	66.00	57.00
10	69.00	64.00
11	73.00	67.00
12	75.00	73.00
14	80.00	79.00
16	85.00	86.00
18	88.00	94.00
20	94.00	100.00
22	105.00	112.00
24	113.00	118.00
25	115.00	122.00
26	119.00	125.00
27	122.00	129.00
28	126.00	134.00
30	139.00	142.00



Hardened steel thread plug gauges (up to M40: Go + NoGo, from M42: Go and NoGo separate) and thread ring gauges (Go or NoGo) for metric screw thread (ISO) with pitch 1.5. Manufactured according ISO 1502 (DIN 13).

Indication **M... x 1.5**	Price EUR Thread plug	Price EUR Thread ring
12	68.00	72.00
14	73.00	76.00
16	76.00	83.00
18	80.00	91.00
20	87.00	98.00
22	95.00	105.00
24	102.00	112.00
25	105.00	116.00
26	108.00	119.00
27	111.00	123.00
28	115.00	125.00
30	125.00	134.00

(continued on the next page)

C12.209.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Thread plug and ring gauges (continued)

Indication M... x 1.5	Price EUR Thread plug	Price EUR Thread ring
(continued)		
32	127.00	141.00
33	130.00	144.00
34	134.00	148.00
35	136.00	150.00
36	139.00	154.00
38	150.00	162.00
39	152.00	166.00
40	160.00	170.00

Indication M... x 1.5	Thread plug Go	Thread plug NoGo	Thread ring
42	93.00	84.00	178.00
45	99.00	90.00	187.00
48	104.00	94.00	199.00
50	108.00	97.00	205.00

Hardened steel thread plug gauges (up to M40: Go + NoGo, from M42: Go and NoGo separate) and thread ring gauges (Go or NoGo) for metric screw thread (ISO) with pitch 2 (ISO 1502).

Indication M... x 2	Price EUR Thread plug	Price EUR Thread ring
20	87.00	98.00
22	95.00	105.00
24	102.00	112.00
26	108.00	119.00
28	115.00	125.00
30	125.00	134.00
32	127.00	141.00
34	134.00	148.00
36	139.00	154.00
38	150.00	162.00
40	160.00	170.00

Indication M... x 2	Thread plug Go	Thread plug NoGo	Thread ring
42	93.00	84.00	178.00
45	99.00	90.00	187.00
48	104.00	94.00	199.00
50	108.00	97.00	205.00



Hardened steel thread plug gauges (up to G1": Go + NoGo, from G1 1/8": Go and NoGo separate) and thread ring gauges (Go or NoGo) for non-sealing fixing pipe thread. Manufactured according DIN EN ISO 228.

Indication G..."	Price EUR Thread plug	Price EUR Thread ring
1/8	71.00	65.00
1/4	78.00	77.00
3/8	89.00	94.00
1/2	102.00	112.00
5/8	109.00	120.00
3/4	119.00	131.00
7/8	136.00	147.00
1	142.00	162.00

Indication G..."	Thread plug Go	Thread plug NoGo	Thread ring
1 1/8	95.00	86.00	183.00
1 1/4	99.00	89.00	203.00
1 1/2	115.00	104.00	229.00
1 3/4	129.00	117.00	254.00
2	143.00	130.00	280.00
2 1/4	156.00	142.00	302.00
2 1/2	181.00	163.00	344.00
2 3/4	198.00	179.00	372.00
3	212.00	192.00	403.00

Schut

Hardened steel thread plug and thread ring gauges for sealing pipe thread. Manufactured according DIN 2999.[1]

Indication R..."	Price EUR Thread plug	Price EUR Thread ring
1/8	179.00	108.00
1/4	191.00	118.00
3/8	206.00	142.00
1/2	224.00	170.00
3/4	249.00	195.00
1	288.00	211.00
1 1/4	345.00	250.00
1 1/2	388.00	305.00
2	478.00	341.00
Larger sizes available on request		

[1] DIN 2999 is replaced with DIN EN 10226 (ISO 7).

C12.210.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Thread plug and ring gauges (continued)

Hardened steel thread plug gauges (up to $1^1/_4$: Go + NoGo, from $1^3/_8$: Go and NoGo separate) and thread ring gauges (Go or NoGo) for American screw thread UNC and UNF manufactured according ANSI B1.2 class 2B (thread plug) and BS 919 2A (thread ring; manufactured according ANSI B1.2 class 2A available on request).

Indication **UNC**	Price EUR Thread plug	Price EUR Thread ring
No 1-64		
No 2-56		
No 3-48		
No 4-40		
No 5-40	69.00	63.00
No 6-32	67.00	61.00
No 8-32	64.00	56.00
No 10-24	62.00	55.00
No 12-24	60.00	54.00
$^1/_4$ -20	60.00	54.00
$^5/_{16}$ -18	61.00	57.00
$^3/_8$ -16	63.00	61.00
$^7/_{16}$ -14	67.00	65.00
$^1/_2$ -13	71.00	74.00
$^9/_{16}$ -12	74.00	82.00
$^5/_8$ -11	79.00	91.00
$^3/_4$ -10	90.00	105.00
$^7/_8$ - 9	102.00	120.00
1 - 8	115.00	138.00
$1^1/_8$ - 7	129.00	153.00
$1^1/_4$ - 7	146.00	175.00

Indication **UNC**	Thread plug Go	Thread plug NoGo	Thread ring
$1^3/_8$-6	90.00	81.00	194.00
$1^1/_2$-6	99.00	89.00	208.00
$1^3/_4$-5	119.00	106.00	243.00
2 -$4^1/_2$	135.00	121.00	278.00
$2^1/_4$-$4^1/_2$	152.00	138.00	317.00
$2^1/_2$-4	170.00	154.00	354.00
$2^3/_4$-4	189.00	170.00	394.00
3 -4	206.00	187.00	431.00
$3^1/_4$-4	224.00	203.00	471.00
$3^1/_2$-4	242.00	219.00	508.00
$3^3/_4$-4	259.00	234.00	546.00
4 -4	277.00	250.00	587.00



Indication **UNF**	Price EUR Thread plug	Price EUR Thread ring
No 0-80		
No 1-72		
No 2-64		
No 3-56		
No 4-48		
No 5-44	69.00	63.00
No 6-40	67.00	61.00
No 8-36	64.00	56.00
No 10-32	62.00	55.00
No 12-28	60.00	54.00
$^1/_4$ -28	60.00	54.00
$^5/_{16}$ -24	61.00	57.00
$^3/_8$ -24	63.00	61.00
$^7/_{16}$ -20	67.00	65.00
$^1/_2$ -20	71.00	74.00
$^9/_{16}$ -18	74.00	82.00
$^5/_8$ -18	76.00	91.00
$^3/_4$ -16	85.00	105.00
$^7/_8$ -14	94.00	120.00
1 -12	104.00	138.00
$1^1/_8$ -12	122.00	160.00
$1^1/_4$ -12	129.00	175.00

Indication **UNF**	Thread plug Go	Thread plug NoGo	Thread ring
$1^3/_8$ -12	80.00	71.00	194.00
$1^1/_2$ -12	86.00	78.00	208.00

Hardened steel tapered thread plug and thread ring gauges NPT for sealing pipe thread. Manufactured according ANSI/ASME B1.20.1.



Indication **NPT..."**	Price EUR Thread plug	Price EUR Thread ring
$^1/_{16}$	174.00	248.00
$^1/_8$	179.00	254.00
$^1/_4$	191.00	267.00
$^3/_8$	206.00	282.00
$^1/_2$	224.00	306.00
$^3/_4$	249.00	336.00
1	288.00	380.00
$1^1/_4$	345.00	445.00
$1^1/_2$	388.00	491.00
2	478.00	599.00
$2^1/_2$	545.00	686.00
3	664.00	879.00

C12.211.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Thread plug and ring gauges in sets

Sets of thread plug gauges or thread ring gauges for inspection of metric ISO threads.



836.561



836.562



- For threads M3, M4, M5, M6, M8, M10 and M12.
- Tolerance class:
  thread plug gauges: 6H,
  thread ring gauges: 6g.
- Hardened steel, thread plug gauges with aluminum grip.
- Manufactured according ISO 1502 (DIN 13).
- Delivery in a wooden case with a manufacturer measuring report.



Item No.	Thread gauges set	Price EUR
836.561	Plug gauges (Go+NoGo)	307.00
836.562	Ring gauges (Go)	340.00
836.563	Ring gauges (NoGo)	340.00

Plug gauges and setting rings in sets

- Hardened steel, plug gauges with aluminum grip.
- Set setting rings manufactured according DIN 2250 form C.
- Set plug gauges manufactured according DIN 2248/2249.
- Delivery in a wooden case with a manufacturer measuring report.







Item No.	Description	Price EUR
836.564	Setting rings: ø4, ø5, ø6, ø8 mm	157.00
836.565	Setting rings: ø10, ø12, ø16, ø20, ø25 mm	207.00
836.566	Plug gauges (Go+NoGo) H7: 3, 4, 5, 6, 8, 10, 12 mm	191.00

Thread jaw gauges

Jaw-shaped gauge for inspection of external screw thread. Delivery excl. setting thread plug gauge.



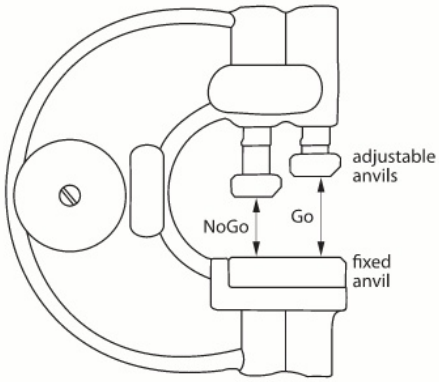
Available on request.

C12.212.EN.20230516

Adjustable snap gauges

Snap gauges with adjustable anvil. Especially suitable for Go/NoGo determination and batch measurements.

- Tungsten carbide measuring faces.
- Flatness of anvil: 1.5 µm.
- Parallelism between anvils: 0 - 32 mm: 3 µm / 32 - 89 mm: 4 µm / 89 - 152 mm: 5 µm.
- To set for example with gauge blocks.
- Conforms to factory standard.
- Delivery with a manufacturer measuring report.





860.016

Item No.	Measuring range/mm	Price EUR
860.012	0 - 6	37.40
860.013	6 - 13	37.40
860.014	13 - 19	39.90
860.015	19 - 25	39.90
860.016	25 - 32	50.00
860.017	32 - 38	50.00
860.018	38 - 44	55.00
860.019	44 - 51	55.00
860.020	51 - 57	60.00
860.021	57 - 63	60.00
860.022	63 - 70	65.00
860.023	70 - 76	65.00
860.024	76 - 82	67.00
860.025	82 - 89	67.00
860.026	89 - 95	72.00
860.027	95 - 101	72.00
860.028	101 - 108	82.00
860.029	108 - 114	82.00
860.030	114 - 120	95.00
860.031	120 - 127	95.00
860.032	127 - 133	105.00
860.033	133 - 139	105.00
860.034	139 - 146	127.00
860.035	146 - 152	127.00

C12.309.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Drill gauges

Gauge in the form of a steel plate with bores of increasing diameters for determining drill diameters.

- Increment: 0.1 mm.



836.640

Item No.	Measuring range/mm	Number of bores	Price EUR
836.640	0.1 - 10	100	103.00
836.641	3 - 10	71	69.00
856.545	15.1 - 17.5	25	121.00
856.546	17.6 - 20	25	147.00

Measuring wedges

Measuring wedges for quick measurements and checks of slits, key-ways, distances, etc.

- Measuring range: 0.4 - 26 mm.
- Graduation: 0.05, 0.1 or 0.2 mm.
- Laser engraving.



909.537



909.535



909.536



856.331

Item No.	Measuring range/mm	Graduation mm	Price EUR
909.535	0.4 - 6	0.05	51.00
856.331	0.5 - 11	0.1	45.00
909.536	1 - 15	0.1	45.00
909.537	2 - 26	0.2	21.50

Twist drill grinding gauges

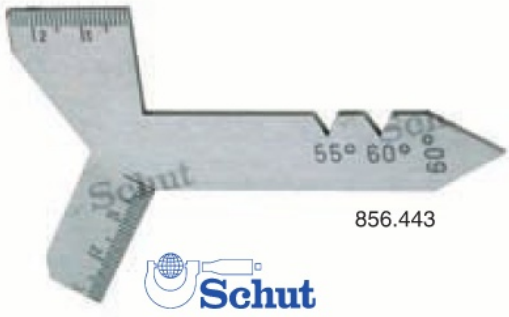
For checking twist drills at their top and on the right value of 120° angle of the twist drill point. The maximum drill diameter is 50 mm.



910.372

NEW

Universal twist drill grinding gauge, also called *Y-gauge*. Besides the standard angle of 120°, this gauge also has a 90° angle for countersink drills, and some special angles for center drills.



856.443

Item No.	Description	Price EUR
910.372	Twist drill grinding gauge	3.10
856.443	*Y-gauge*	11.30

C12.312.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Flat plug gauges

- Measuring range: 1 - 60 mm.
- Graduation: 0.1 mm.
- Stainless steel, matt chrome-plated finish.
- Graduation on both sides.
- Ground measuring faces.
- Laser engraving.



907.876

Item No.	Measuring range/mm	Price EUR
907.876	1 - 15	20.90
909.516	15 - 30	24.30
909.517	30 - 45	30.70
909.534	45 - 60	40.00

Conical plug gauges

- Measuring range: ø 1 - 45 mm.
- Graduation: 0.1 mm.
- Hardened, ground and chrome finished.
- With anodized handle.



909.490

Item No.	Measuring range/mm	Price EUR
909.490	ø 1 - 6	52.00
909.491	ø 4 - 15	75.00
909.492	ø 15 - 30	87.00
909.493	ø 30 - 45	120.00

Nozzle gauges

Set of pins in holder serving as a gauge to determine jet nozzle sizes.



856.107

Item No.	Number of pins	Sizes mm	Price EUR
856.107	20	ø 0.45 - 1.50	5.80
856.108	16	ø 1.50 - 3.00	5.80
856.124	16	ø 3.00 - 4.50	13.80
856.125	16	ø 4.50 - 6.00	13.80

Nozzle gauges with vernier

Nozzle gauges with a hardened and ground tapered needle.

- Measuring range: ø 0 - 5 mm.
- Vernier: 0.01 mm.



Item No.	Measuring range/mm	Price EUR
856.110	ø 0 - 5	57.00

C12.213.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Center gauges

For checking thread cutting tools for Whitworth thread 55° or metric thread 60°.



856.444



856.445

Item No.	Description	Price EUR
856.444	Whitworth 55°	2.40
856.445	Metric 60°	2.40

Thread cutting tool gauges



856.446



856.447

Item No.	Description	Price EUR
856.446	Universal thread cutting tool gauge for angular thread and flat thread	9.20
856.447	Trapezoidal thread cutting tool gauge for trapezoidal thread DIN 103 (30°, 2 - 12 mm)	10.20
856.449	Combined lathe and thread cutting tool gauge for – cutting tool wedge angle, – trapezoidal thread DIN 103 (30°, 2 - 12 mm), and – angular thread (40° - 80°)	10.20
856.451	Thread cutting tool gauge for – rectangular thread, – trapezoidal thread DIN 103 (30°, 2 - 12 mm), and – angular thread (55° and 60°)	10.20



856.449



856.451

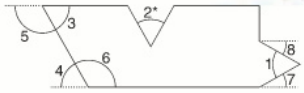
C17.202.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Angle gauge set

- Measuring range: 5 - 90° (supplementary angles: 90 - 175°).
- Increment: 5° (18 pieces).
- Multiple angles per angle gauge:
  – primary angles (1, 2*, 3, 4),
  – supplementary angles (5, 6), and
  – ½ primary angles (7, 8).
- Delivery in a soft case.





* Angle 2: only with the angle gauges from 20°.

PRICE

Item No.	Description	Price EUR
909.410	Angle gauge set	28.70

Angle gauges

- Measuring range: 1 - 45°.
- Number of blades: 20.
- Angles: 1° - 2° - 3° - 4° - 5° - 6° - 7° - 8° - 9° - 10° - 12° - 14° - 16° - 18° - 20° - 25° - 30° - 35° - 40° - 45°.



PRICE

Item No.	Description	Price EUR
908.798	Angle gauges	27.20

Radius gauges

- Measuring range radius: 1 - 25 mm.
- Increment:
  1 - 3 mm: 0.25 mm,
  3.5 - 20 mm: 0.5 mm,
  >20 mm: 1.0 mm.
- Includes blades for both inside and outside radii.



PRICE

Item No.	Radius range/ mm	Number of blades	Price EUR
907.766	1 - 7	17 + 17	10.20
907.767	7.5 - 15	16 + 16	9.60
907.768	15.5 -	15 + 15	9.60

Shape and radius gauge

This stainless steel gauge can be used to adopt various complex shapes of tools and workpieces. When the gauge is pressed against the part which has to be checked, it takes on the shape of this part. Because of the graduation (mm) on the case, the shape can be checked easily.

Because the tracers were supported under pressure, they don't move on their own.



Item No.	Measuring range/mm	Price EUR
836.319	150 x 40	19.10

C17.204.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Set of welding seam gauges

- For weld thickness: 3 - 12 mm.
- Up to 7 mm increasing with 0.5 mm, plus 8, 10 and 12 mm. Total: 12 pieces.
- Bright steel.



Item No.	Description	Price EUR
856.452	Welding seam gauges	12.20

Welding seam gauge

For measurement of welding seams.

- Graduation: 0.2 mm.
- Stainless steel.
- Delivery in a soft case.



Item No.	Description	Price EUR
856.438	Welding seam gauge	44.00

Welding seam calipers

For measurement of welding seams.

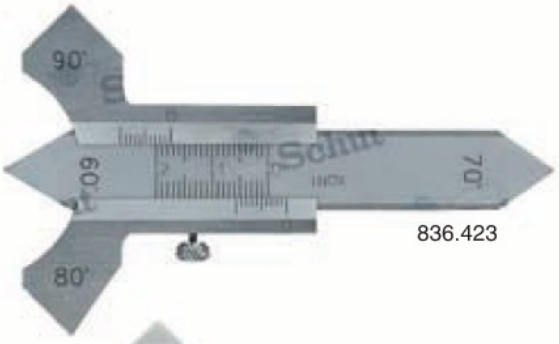
- Measuring range: 0 - 20 mm.
- Analog: vernier 0.1 mm, digital: resolution 0.01 mm.
- Delivery in a soft case (836.423) or a plastic case (906.429).

Analog

- Stainless construction.

Digital

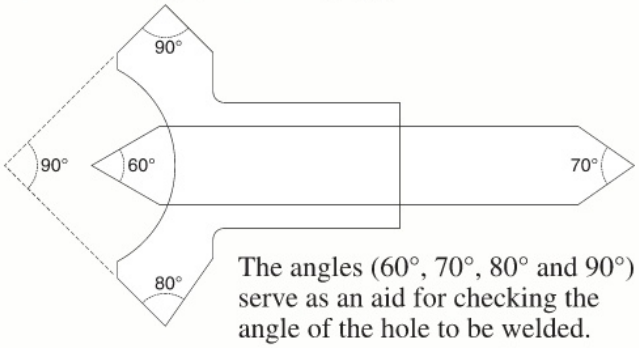
- mm/inch conversion.
- On/off switch.
- Reset.
- Power supply: 1 battery type V357.



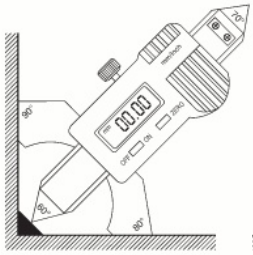
836.423

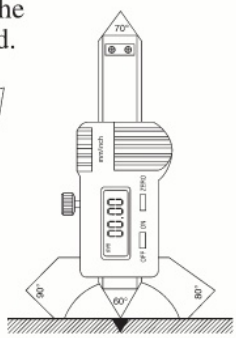


906.429



The angles (60°, 70°, 80° and 90°) serve as an aid for checking the angle of the hole to be welded.





Item No.	Measuring range/mm	Price EUR
Analog: 836.423	0 - 20	18.10
Digital: 906.429	0 - 20	54.00
Option: 836.535	Spare battery	0.80

C17.203.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital measuring wedge

Digital measuring wedge for measurements and checks of slits, key-ways, distances, etc.

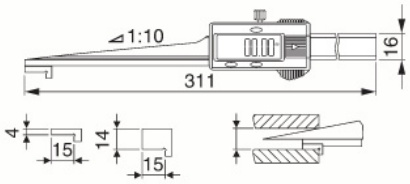
- Measuring range: 0.2 - 30 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Large LCD display.
- Locking screw.
- Power supply: 1 battery type V357.



PRICE

NEW

Item No.	Measuring range/mm	Accuracy mm	Price EUR
910.283	0.2 - 30	±0.02	263.00
Option:			
836.535 Spare battery			0.80



Chamfer calipers

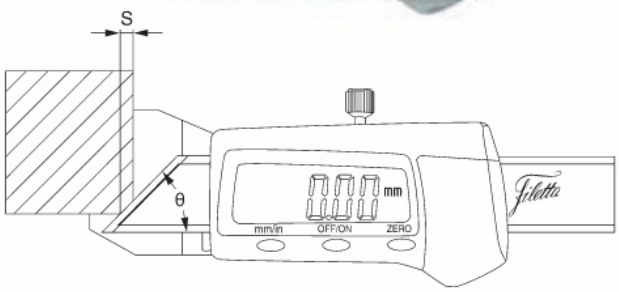
- Measuring range: 0 - 8 mm.
- Resolution: 0.01 mm.
- Accuracy: ±0.03 mm.
- mm/inch conversion.
- On/off switch.
- Reset.
- Locking screw.
- Delivery in a case.
- Power supply: 1 battery type V357.

NEW

PRICE



Item No.	Angle	Price EUR
910.265	30°	102.00
910.266	45°	122.00
910.267	60°	170.00
Option:		
836.535 Spare battery		0.80



Universal meter for bevels

Universal instrument for measurement of bevels from 0.5 to 10 mm.
Direct reading of the measured bevel (30°, 45°, 60°).

- Measuring range: 30°: 15 mm,
  45°: 10 mm,
  60°: 5 mm.
- Hardened stainless steel construction.
- Delivery in a wooden case.



Item No.	Description	Price EUR
838.727	Universal meter for bevels	490.00



C12.315.EN.20230516

Thread and tolerance tables

Thread table
Table with all standard international thread indications: metric, BSW, Gas, BSF, Pg, BA, UNC, UNF, UNEF, EG-M and EG-MF.

Tolerance table
Table compromising all tolerances and fits according ISO 286-2, up to 500 mm (table with over 6400 pairs of tolerance values for internal and external measurements).

Conversion table mm/inch
For converting from mm to inch and from inch to mm.



835.162
835.163
835.164

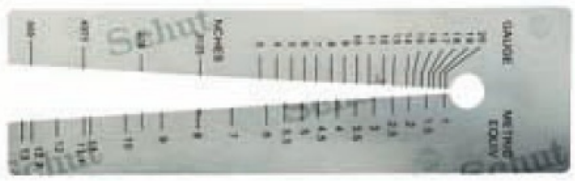
Item No.	Description	Price EUR
835.162	Thread table	56.00
835.163	Tolerance table	56.00
835.164	Conversion table mm/inch	56.00

Flat thickness gauge

Gauge to measure, among others, the thickness of steel plating.

- Measuring range: 1 - 13 mm.
- Graduation: 0.5 mm.
- Stainless steel.





Item No.	Measuring range/mm	Price EUR
907.899	1 - 13	6.90

Screw pitch gauges

Item No.	Type of thread	Number of blades	Price EUR
856.456	Metric	24	3.50
856.457	Whitworth	28	5.00
856.458	BSP	6	3.10
856.459	Metric/Whitworth	52	7.80
856.460	Metric/Whitworth/BSP	58	10.90
856.461	UNC/UNF	30	4.30



Thread	Angle	Number of blades	Blades
Metric	60°	24	Pitch/mm: 0.25/0.3/0.35/0.4/0.45/0.5/0.6/0.7/0.75/0.8/0.9/1.0/1.25/1.5/1.75/2.0/2.5/3.0/3.5/4.0/4.5/5.0/5.5/6.0
Whitworth	55°	28	Threads per inch: 62/60/48/40/36/32/30/28/26/25/24/22/20/19/18/16/14/13/12/11/10/9/8/7/6/5/4.5/4
BSP	55°	6	Threads per inch: 28/19/14/11/10/8
UNC/UNF	60°	30	Threads per inch: 42/40/38/36/34/32/30/28/27/26/24/22/20/18/16/15/14/13/12/11.5/11/10/9/8/7/6/5.5/5/4.5/4

C12.214.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Magnifiers / Microscopes / Glass rulers / Stereo microscopes Video microscopes / Endoscopes / Profile projectors



C13.000.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Peak stand magnifier 5x

Standard, all-purpose magnifier.

- Dimensions: ø 35 x 55 mm.



Item No.	Price EUR
905.110	8.70

Peak stand magnifier 10x

Standard, all-purpose magnifier. Very suitable for inspection of tissues, structures and photographic negatives.

- Dimensions: ø 34 x 41 mm.



Item No.	Price EUR
905.112	13.60

Peak stand magnifier 10x

A simple, all-purpose magnifier.

- Dimensions: ø 41 / ø 45 x 40 mm.



Item No.	Price EUR
905.316	7.30

Peak stand magnifier 15x

Bright images with high contrast due to a coated achromatic lens. With wide acrylic tube.

- Dimensions: ø 27 / ø 36 x 33 mm.



Item No.	Price EUR
905.114	18.00

Peak stand magnifier 22x

Bright images with high contrast due to a coated achromatic lens. Suitable for inspection of high precision work.

- Dimensions: ø 28 x 30 mm.



Item No.	Price EUR
905.116	36.60

C13.201.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Peak magnetic magnifier 5x

This magnifier has two small magnets which make sure that the magnifier can be put on a fixed position without moving. By placing this magnifier on hard to read scale divisions of, for example, graduated rulers, height gauges or micrometers, the possibility of reading errors substantially reduces.

- Field of view: ø 30 mm.
- Dimensions: ø 44 x 20 x 30 mm.
- Weight: 15 g.



Item No.	Description	Price EUR
905.210	Magnetic magnifier 5x	10.90

Peak eye magnifiers 3.3x...20x

Eye magnifiers can be placed in front of the eye easily, which makes them ideal tools for working on small products like watches, clocks and jewelry.

- Made of aluminum.
- Weight: 10 - 16 g.
- A small hole in the tube prevents the lens from becoming fogged up.



905.390

905.394

905.301

Item No.	Type	Magnification	Lenses	Price EUR
905.390	A13D	3.3x	1	30.60
905.391	A16D	4.0x	1	30.60
905.392	A20D	5.0x	1	30.60
905.393	A26D	6.7x	1	30.60
905.394	A40D	10.0x	2	38.50
905.299	A48D	12.0x	1	56.00
905.300	A60D	15.0x	1	56.00
905.301	A80D	20.0x	1	56.00

Peak scale magnifier 3x

Scale magnifier with a lens system separated from the scale by a stand, hereby creating a larger working distance, field of view and luminous intensity. The scale is placed in a rotatable ring in the base of the stand.

- Field of view: ø 58 mm.
- Measuring range scale: 54 mm.
- Graduation: 0.1 mm.
- Dimensions: 76 x 105 x 96 mm.
- Weight: 378 g.



Item No.	Description	Price EUR
905.328	Magnifier with scale and stand	173.00

C13.202.EN.20230516

Peak zoom magnifiers 8-16x and 10-20x

Unique stepless zoom lens with sufficient brightness in each stage of magnification and a minimum of optical aberration. With click-stop on magnifications 8/10/12/14/16x and 10/15/20x, respectively. Equipped with scale.

- Field of view: ø20 - 10 mm or ø13 - 7 mm.
- Graduation: 0.1 mm.
- For optional scales: see "Peak scales ø35 mm".



904.028



905.198 905.197

Item No.	Magnification	Field of view ø/mm	Adjustment range eye correction	Measuring range/mm	Dimensions mm	Price EUR
905.197	8 - 16x	20 - 10	+2.5D to –5D	16	ø45 x 65	217.00
905.198	10 - 20x	13 - 7	+5D to –3.5D	12	ø42 x 52	237.00
Options:						
495.153	Battery (2 needed)					1.30
904.028	Illumination					33.40

Peak telecentric magnifier 7x

A telecentric magnifier shows objects, which are at different distances, with the same magnification. In this way 3D objects, or e.g. a needle above a scale, can be shown and measured accurately without parallax error.

- Field of view: ø24 mm.
- Measuring range scale: 20 mm.
- Graduation: 0.1 mm.
- Adjustable diaphragm with apertures ø0.5, 1 and 3 mm.
- Dimensions: ø38 x 74 mm.
- For optional scales: see "Peak scales ø26 mm".



Item No.	Description	Price EUR
905.136	Telecentric magnifier 7x including case and standard scale *(for scales of ø26 mm)*	146.00

Peak stand magnifier 4x

This practical and convenient magnifier can be used for many purposes, like inspecting films. The magnifier is delivered with a clear and a black base, which allows you, depending on the amount of light, to choose the base which is most suitable for your application.

- Field of view: ø45 mm.
- Dimensions: 51 x 51 x 65 mm.
- Weight: 80 g.



Item No.	Description	Price EUR
905.399	Stand magnifier 4x	61.00

C13.203.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Peak stand magnifier 8x

Convenient and smartly designed magnifier with achromatic lens. A scale is engraved at the bottom of the transparent acrylic base. Photographic negatives can be inspected using the base with opal glass.

- Field of view: 24 x 36 mm.
- Dimensions without base: 46 x 49 x 39 mm.
- Weight: 52 g.



Item No.	Description	Price EUR
905.290	Magnifier w/o base	34.60
Option:		
905.291	Base	12.30

Peak light magnifier 3.5x

Large square lens (52 x 52 mm) of plastic with illumination, e.g. for reading maps and indicators, and for inspection of production processes.

- Dimensions: 60 x 75 x 190 mm.
- Weight (without batteries): 120 g.
- Power supply: 2 batteries type C.



Item No.	Description	Price EUR
905.212	Magnifier (w/o batteries)	30.60
Option:		
495.153	Battery (2 needed)	1.30

Peak monocular telescopes

Lightweight pocket-size telescopes with erect image.

- Dimensions 905.207: ø 22.5 x 50 mm,
  905.208: ø 22.5 x 53 mm.
- Weight: 32 g.
- Delivery in a soft case.



905.207

Item No.	Magnification	Lens aperture ø/mm	Close focus distance/mm	Field of view (angle)	Field of view* ø/mm	ø/m	Price EUR
905.207	2x	8	100	11°	12	192	185.00
905.208	4x	10	220	10°	29	175	185.00

* Field of view respectively at close focus distance and at 1000 m.

C13.204.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Peak head magnifiers 2.2x ... 5.2x

Because of the velcro strip, the head magnifier can be used easily. The great advantage of a head magnifier is that the user has both hands free for e.g. production and assembly of precision instruments. The head magnifier is designed in such a way that people who wear glasses can use it as well. With the extra pair of lenses inside the head magnifier, the magnification can be enhanced from 2.2x to 3.3x.

- Clear, broad and 3-dimensional view.
- Weight 905.318: 100 g,
  905.317: 118 g.


905.318

905.317

Item No.	Magnification	Price EUR
905.318	2.2x / 3.3x	34.40
905.317	2.2x / 3.3x / 4.1x / 5.2x	43.00

Peak pen microscopes with EIM 25x ... 100x

These pen microscopes have a fixed scale and EIM system. With standard microscopes, the magnification is upside down, but because of the EIM system, this is not the case with these pen microscopes.

- Dimensions: ø 20.7 x 111 mm.
- Weight: 25 - 28 g.



905.404

Item No.	Magnification	Field of view ø/mm	Measuring range/mm	Graduation mm	Price EUR
905.404	25x	3.50	3.0	0.05	163.00
905.405	50x	1.70	1.6	0.02	183.00
905.406	75x	1.10	1.0	0.01	202.00
905.407	100x	0.86	0.8	0.005	223.00

Peak pen microscopes 25x ... 100x

- Dimensions:
  ø 12.4 x 127 mm.
- Weight: 13 - 16 g.
- With a fixed scale
  (only 905.263/264).


905.267



Item No.	Magnification	Field of view ø/mm	Measuring range/mm	Graduation mm	Price EUR
905.267	25x	3.30	–	–	41.00
905.268	50x	2.00	–	–	58.00
905.269	75x	1.09	–	–	65.00
905.266	100x	0.84	–	–	86.00
With fixed scale:					
905.263	25x	3.30	3.00	0.05	71.00
905.264	50x	2.00	1.60	0.02	83.00

C13.205.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Peak light magnifiers 10x and 15x

Magnifier with illumination.

- Field of view: ø 25 mm.
- Dimensions and weight (without batteries):
  905.118: 175 x 35 x 41 mm, 81 g,
  905.119: 180 x 36 x 42 mm, 90 g.
- Power supply: 2 batteries type C, not included.



905.118

Item No.	Magnification	Price EUR
905.118	10x	21.70
905.119	15x	37.10
Option:		
495.153	Battery (2 needed)	1.30

Peak folding magnifiers 7x ... 20x

Steinheil magnifiers with an excellent chromatic correction and a large field of view.

- Dimensions: 39 x 24 x 22 mm.
- Weight: 18 - 22 g.



905.202

Item No.	Magnification	Field of view ø/mm	Price EUR
905.200	7x	16	46.00
905.202	10x	15.5	46.00
905.204	14x	12	46.00
905.206	20x	7	46.00

Peak folding magnifiers 3x ... 9x

Because of their small size, these folding magnifiers are easy to use. Available in several magnifications, with one or two lenses. The advantage of two lenses is that it gives a very sharp image, because the image error of the first lens is being corrected by the second one.

A mm scale is engraved at each of the four sides of the base. The scale length is equal to the width of the field of view (see table).



905.230



905.379

Item No.	Magnification	Field of view/mm	Number of lenses	Material/ color	Price EUR
905.230	9x	10 x 10	1	Al/clear	10.90
905.375	7x	15 x 15	1	Al/clear	13.40
905.376	6x	25 x 25	1	Al/clear	15.80
905.377	9x	10 x 10	1	Al/black	11.90
905.378	7x	15 x 15	1	Al/black	14.60
905.379	6x	25 x 25	1	Al/black	17.60
905.383	4x	30 x 30	2	Al/black	69.00
905.384	3x	50 x 50	2	Al/black	77.00
905.380	9x	10 x 10	2	Zn/black	14.40
905.381	8x	15 x 15	2	Zn/black	16.80
905.382	6x	25 x 25	2	Zn/black	19.00

C13.206.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Peak scale magnifier 7x

All-purpose scale magnifier. Aberrations are avoided by the excellent achromatic lenses.

- Field of view: ø 26 mm.
- Measuring range standard scale: 20 mm.
- Graduation: 0.1 mm.
- Dimensions: ø 36 x 62 mm.
- Weight: 56 g.



Item No.	Description	Price EUR
905.140	Magnifier with standard scale in a soft case	42.00
905.155	Set of magnifier 7x and five scales in a plastic case	77.00
905.138	Magnifier 905.140 with illumination (without batteries)	61.00
Option:		
495.153	Battery (2 needed)	1.30

Peak scales ø 26 mm

Aside from the standard scale, various other scales are available, each one with its own specific application. These scales are interchangeable in scale magnifiers like the one above.

Item No.	Scale	Price EUR
905.141	no. 1	10.30
905.142	no. 2	10.30
905.143	no. 3	10.30
905.144	no. 4	10.30
905.145	no. 5	10.30
905.146	no. 6	10.30
905.147	no. 7	10.30
905.148	no. 8	10.30
905.149	no. 9	10.30
905.150	no. 10	10.30
905.151	no. 11	10.30
905.152	no. 12	10.30
905.153	standard	10.30



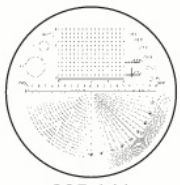
Scale magnifier with illumination 905.138

- Field of view: ø 22 mm.
- Dimensions: ø 36 x 58 x 175 mm.
- Weight (without batteries): 118 g.
- Power supply: 2 batteries type C.

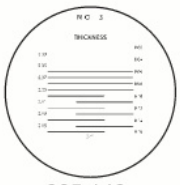


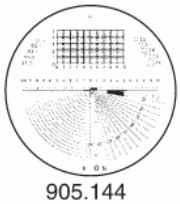
Set 905.155

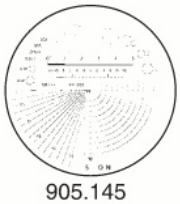
Scale magnifier 7x in a set with the five most frequently used scales (2, 3, 7, 8 and 10).

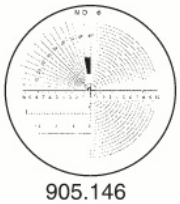

905.141

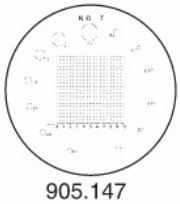

905.142

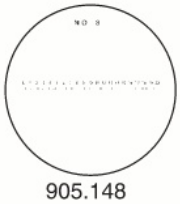

905.143

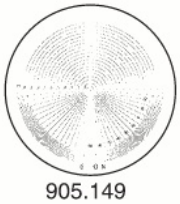

905.144

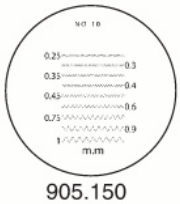

905.145

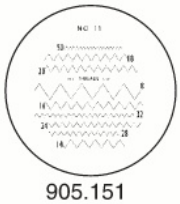

905.146

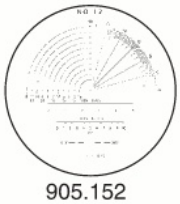

905.147

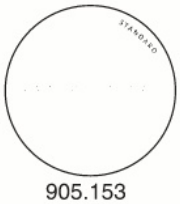

905.148


905.149


905.150


905.151


905.152


905.153

C13.207.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Peak scale magnifier 10x

All-purpose scale magnifier. Aberrations are avoided by the excellent achromatic lenses. High resolution and large field of view.

- Field of view: ø 35 mm.
- Measuring range standard scale: 30 mm.
- Graduation: 0.1 mm.
- Dimensions: ø 46 x 44 mm.
- Weight: 74 g.



Item No.	Description	Price EUR
905.180	Magnifier with standard scale in a soft case	58.00
905.195	Set of magnifier 10x and five scales in a plastic case	109.00
905.178	Magnifier 905.180 with illumination (without batteries)	84.00
Option:		
495.153	Battery (2 needed)	1.30



Scale magnifier with illumination 905.178

- Field of view: ø 32 mm.
- Dimensions: ø 47 x 45 x 185 mm.
- Weight (without batteries): 134 g.
- Power supply: 2 batteries type C.



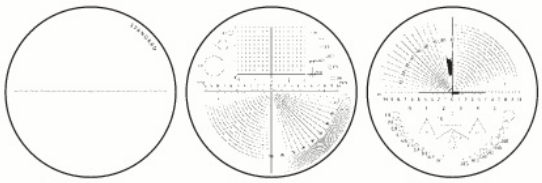
Set 905.195

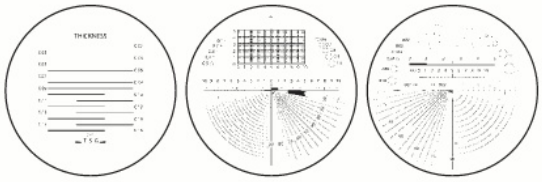
Scale magnifier 10x in a set with the five most frequently used scales (2, 3, 7, 8 and 10).

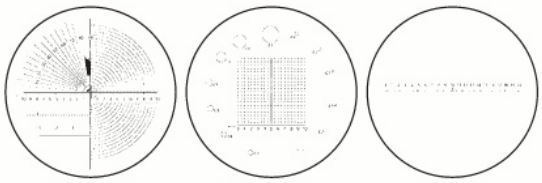
Peak scales ø 35 mm

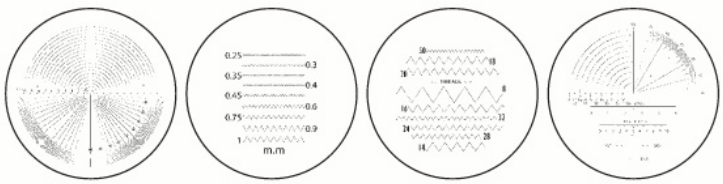
Aside from the standard scale, various other scales are available, each one with its own specific application. These scales are interchangeable in scale magnifiers like the one above.

Item No.	Scale	Price EUR
905.181	standard	9.50
905.182	no. 1	11.20
905.183	no. 2	11.20
905.184	no. 3	11.20
905.185	no. 4	11.20
905.186	no. 5	11.20
905.187	no. 6	11.20
905.188	no. 7	11.20
905.189	no. 8	11.20
905.190	no. 9	11.20
905.191	no. 10	11.20
905.192	no. 11	11.20
905.193	no. 12	11.20


905.181 905.182 905.183


905.184 905.185 905.186


905.187 905.188 905.189


905.190 905.191 905.192 905.193

C13.208.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Peak scale magnifier 30x

- Field of view: ø 7 mm.
- Measuring range standard scale: 5 mm.
- Graduation: 0.05 mm.
- Dimensions: ø 30 x 19 mm.
- Weight: 16 g.



Scale magnifier with LED illumination 905.287

- Dimensions: ø 43 x 65 x 184 mm.
- Weight (without batteries): 48 g.
- Power supply: 2 batteries type AAA.



Item No.	Description	Price EUR
905.285	Scale magnifier in a soft case	77.00
905.287	Magnifier 905.285 with illumination (without batteries)	92.00
Options:		
497.914	Battery (2 needed)	0.80
905.286	Separate standard scale	18.00
905.179	LED penlight	14.60

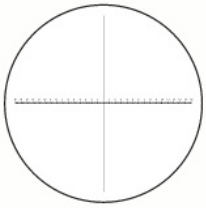
Peak anastigmatic scale magnifiers 4x and 7x

Magnifier with anastigmatic lens. This is a combined objective which reflects a large, undistorted image with sharp features, very suitable for inspection of (photographic) films.

- Large field of view, 905.216: ø 58 mm,
  905.400: ø 41 mm.
- Removable scale with mm graduation.
- Measuring range scale 905.217: 54 mm,
  905.401: 36 mm.
- Graduation scale: 0.1 mm.
- Dimensions and weight:
  905.216: ø 73 x 77 mm, 272 g,
  905.400: ø 55 x 53 mm, 103 g.



905.216





905.400

Item No.	Description	Price EUR
905.216	Scale magnifier 4x	170.00
905.400	Scale magnifier 7x	152.00
Options:		
905.217	Standard scale for magnifier 905.216	36.20
905.401	Standard scale for magnifier 905.400	23.40

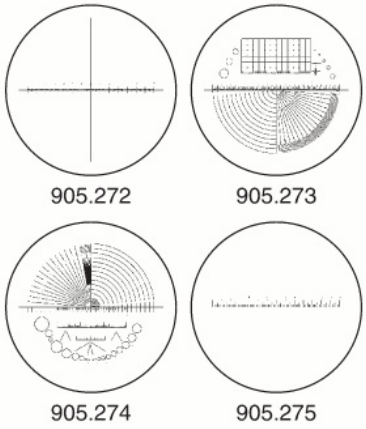
C13.210.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Peak scale magnifier 15x

- Field of view: ø 20 mm.
- Measuring range standard scale: 14 mm.
- Graduation: 0.1 mm.
- Dimensions: ø 35 x 33 mm.
- Weight: 40 g.





Item No.	Description	Price EUR
905.270	Scale magnifier in a soft case	80.00
905.278	Magnifier 905.270 with illumination (without batteries)	101.00
Options:		
497.914	Battery (2 needed)	0.80
905.272	Separate standard scale	16.30
905.273	Scale no. 1	16.30
905.274	Scale no. 2	16.30
905.275	Scale no. 8	16.30
905.179	LED penlight	14.60

Scale magnifier with LED illumination 905.278

- Dimensions: ø 43 x 65 x 184 mm.
- Weight (without batteries): 72 g.
- Power supply: 2 batteries type AAA.



Peak stand magnifier 30x

This *microscopic* magnifier has a very high magnification despite its small size. In this way, the magnifier can be held with one hand, while you can hold the product to be inspected in the other. Because of the sophisticated optic design, this magnifier is almost comparable to a microscope of the same size, while the field of view is larger. This magnifier is often used in photo technique, for the production of precision instruments and for inspection of precision work.

Stand magnifier with LED illumination

- Lens aperture: ø 7 mm.
- Dimensions: ø 43 x 65 x 184 mm.
- Weight (without batteries): 40 g.
- Power supply: 2 batteries type AAA.



Item No.	Description	Price EUR
905.402	Stand magnifier $M = 30$x with illumination (without batteries)	59.00
Options:		
497.914	Battery (2 needed)	0.80
905.179	LED penlight	14.60

C13.211.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Peak ABC magnifier 3-18x

The ABC magnifier consists of three lenses. Combining the three lenses, seven different magnifications are possible.

- Magnification: 3x, 6x, 9x, 12x, 14x, 16x and 18x.
- Magnification and diameter of the lenses:
  lens A: 12x, ø 14 mm,
  lens B: 3x, ø 28 mm,
  lens C: 6x, ø 20 mm.
- Dimensions: 60 x 39 x 24 mm.
- Weight: 76 g.



Item No.	Description	Price EUR
905.196	ABC magnifier 3-18x	292.00

Magnifier on magnetic stand

- Magnification: 2x (ø 90 mm).
- Total length: 280 mm.
- Magnetic force: 600 N.



Schut



Item No.	Description	Price EUR
909.609	Magnifier on magnetic stand	26.90

Peak magnifying glass 2.5 - 5x

This model of the classic magnifying glass has a lens-in-lens construction. In the big ø 75 mm lens a smaller ø 20 mm lens has been integrated which offers extra strong magnification. The big lens has a 2.5x magnification, the small lens 5x.

- Dimensions: ø 80 x 170 mm.
- Weight: 111 g.

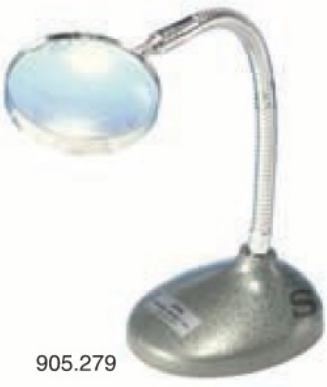


Item No.	Description	Price EUR
905.214	Magnifying glass 2.5 - 5x	29.60

Peak flexible stand magnifier

This magnifier has a flexible arm which can be adjusted freely from a solid and stabilized stand. The lens can be put in many positions for the most ergonomic use thus leaving both hands of the user free.

- Dimensions:
  145 x 120 x 485 mm
  (maximum height).
- Weight: 1.5 kg.



905.279

Item No.	Magnification	Lens ø/mm	Price EUR
905.279	1.7x	115	87.00
905.427	2.0x	100	78.00
905.428	2.2x	90	73.00

C13.212.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Stand microscopes 20x ... 100x

These stand microscopes are available in four versions. All four are compact and lightweight, but are especially characterized by their large field of view. Delivered in a case, including LED penlight, matching standard scale and objective. The microscopes come with a Huygens eyepiece (magnification 10x) and with a detachable soft rubber eye adapter. All-purpose use with high precision.

A scale graduation (with a 10 mm scale range) has been engraved on the focusing ring which allows height measurements at a resolution of 0.1 mm.

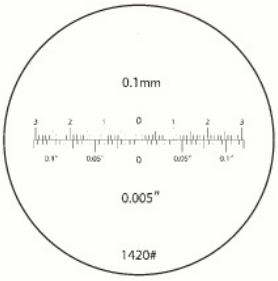
- Focusing with helicoil ring.
- Eyepiece: 10x.
- Dimensions: ø41.5 x 122 mm.
- Weight (without batteries): 262 - 264 g.
- Power supply: 1 battery type AAA.



910.411



910.422



910.414



910.418

Item No.	Magnification microscope	Price EUR
Standard scales:		
910.414	20x	13.60
910.415	40x	13.60
910.416	60x	13.60
910.417	100x	13.60
910.422	Individual eyepiece 10x	36.00
Objectives:		
910.418	Individual objective 2x	75.00
910.419	Individual objective 4x	78.00
910.420	Individual objective 6x	80.00
910.421	Individual objective 10x	82.00

Item No.	Magnification	Objective	Field of view ø/mm	Working distance/mm	Measuring range/mm	Graduation mm	Price EUR
910.409	20x	2x	7.2	20	6	0.05	113.00
910.410	40x	4x	3.6	21	3	0.02	120.00
910.411	60x	6x	2.4	13.5	2	0.01	125.00
910.412	100x	10x	1.45	7	1	0.005	131.00
Options:							
910.413	LED penlight						13.10
497.914	Spare battery						0.80

C13.328.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Peak stand microscopes 20x ... 200x

These stand microscopes are available in five versions. All five are compact and lightweight, but are especially characterized by their large field of view. Delivery in a case, including LED illumination, matching standard scale and objective. The microscopes come with a Huygens eyepiece (magnification 10x) and with a detachable soft rubber eye adapter. All-purpose use with high precision.

Type 2034

A scale graduation (with a 10 mm scale range) has been engraved on the focusing ring which allows height measurements at a resolution of 0.1 mm.

- Focusing with helicoid ring.
- Dimensions: ø 63 x 172 mm.
- Weight (without batteries): 237 - 241 g.
- Power supply: 2 batteries type AAA.

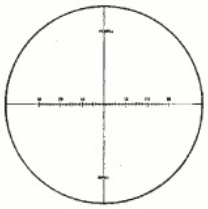


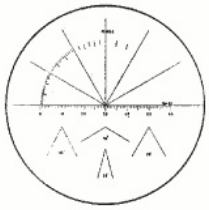
Type 2034

Item No.	Magnification	Field of view ø/mm	Working distance/mm	Measuring range/mm	Graduation mm	Price EUR
905.320	20x	7.2	36	6	0.1	264.00
905.330	40x	3.6	18.7	3	0.05	264.00
905.340	60x	2.4	10.8	2	0.02	285.00
905.350	100x	1.45	5.7	1.2	0.01	285.00
905.355	150x	0.96	9.2	0.9	0.005	345.00
905.370	200x	0.72	6.7	0.6	0.002	409.00
Options:						
497.914	Spare battery (2 needed)					0.80
905.179	LED penlight					14.60

Peak individual scales

The in the eyepiece integrated scale can be changed, for example when the magnification of the microscope changes (see “Individual objectives”). Additionally, an extra eyepiece (without scale and soft rubber eye adapter) is available, so the eyepiece doesn’t need to be disassembled each time the scale is being changed.


905.321


905.325

Item No.	Magnification microscope	Scale	Price EUR
Standard scales:			
905.321	20x	no. 54	37.40
905.331	40x	no. 64	37.40
905.341	60x	no. 74	37.40
905.351	100x	no. 84	37.40
905.356	150x	no. 94	37.40
905.337	200x	no. 104	37.40
905.388	300x	no. 114	47.00
For inspection of printed matter and tools:			
905.325	20x	no. 55	37.40
905.335	40x	no. 65	37.40
904.042	Individual eyepiece 10x		56.00

C13.213.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Peak stand microscopes 20x ... 300x (continued)

Type 2054

This type primarily differs from the type 2034 in the focusing mechanism and the sturdy die-cast aluminum base.

- Focusing with rack-and-pinion.
- Dimensions: ø 63 x 172 mm.
- Weight (without batteries): 263 - 267 g.
- Power supply: 2 batteries type AAA.



Type 2054

Peak individual objectives

The objectives are also separately available. This gives you the great advantage that you can get all magnifications with one scale microscope. The magnification of the eyepiece is 10x.

Item No.	Magnification objective	Magnification microscope	Price EUR
905.332	4x	40x	78.00
905.342	6x	60x	89.00
905.352	10x	100x	89.00
905.357	15x	150x	126.00
905.372	20x	200x	187.00
905.387	30x	300x	243.00

Item No.	Magnification	Price EUR
Type 2054:		
905.411	40x	306.00
905.412	60x	328.00
905.413	100x	328.00
905.414	150x	383.00
905.416	300x	565.00
Options:		
497.914	Spare battery (2 needed)	0.80
905.179	LED penlight	14.60

For other specifications: see table of type 2034.

C13.214.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Stand microscopes 20x ... 100x with LED illumination

These stand microscopes are available in four versions. All four are compact and lightweight, but are especially characterized by their large field of view. Delivered in a case, including LED ring light, matching standard scale and objective. The microscopes come with a Huygens eyepiece (magnification 10x) and with a detachable soft rubber eye adapter. All-purpose use with high precision.

A scale graduation (with a 10 mm scale range) has been engraved on the focusing ring which allows height measurements at a resolution of 0.1 mm.

- Focusing with helicoid ring.
- Eyepiece: 10x.
- Illumination: 3 LEDs.
- Dimensions: ø41.5 x 122 mm.
- Weight (without batteries): 300 g.
- Power supply: 4 batteries type V394.



910.404



910.422

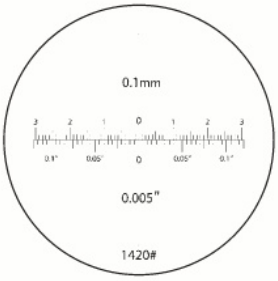
NEW

PRICE

Item No.	Magnification microscope	Price EUR
Standard scales:		
910.414	20x	13.60
910.415	40x	13.60
910.416	60x	13.60
910.417	100x	13.60
910.422	Individual eyepiece 10x	36.00
Objectives:		
910.418	Individual objective 2x	75.00
910.419	Individual objective 4x	78.00
910.420	Individual objective 6x	80.00
910.421	Individual objective 10x	82.00



910.404



910.414



910.418

Schut

PRICE

Item No.	Magnification	Objective	Field of view ø/mm	Working distance/mm	Measuring range/mm	Graduation mm	Price EUR
910.404	20x	2x	3.3	17	3.0	0.05	122.00
910.405	40x	4x	2.0	11.7	1.6	0.02	127.00
910.406	60x	6x	1.1	11.7	1.0	0.01	136.00
910.407	100x	10x	0.84	11.6	0.8	0.005	143.00
Options:							
910.408	LED ring light						46.00
420.248	Spare battery (4 needed)						1.50

C13.329.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Peak stand microscopes 25x ... 100x

Compact and light-weight stand microscope with scale. The high resolution and bright images as well as its easy focusing make this instrument a practical measuring aid. A scale graduation (scale range 8 mm) has been engraved on the focusing ring which allows height measurements at a resolution of 0.1 mm. With detachable soft rubber eye adapter. Delivery in a case, with matching standard scale.

- Dimensions: ø41.5 x 122 mm.
- Weight: 83 g.



905.250



905.243/244/237/238



905.245/246/239/240

Item No.	Type	Magnification	Price EUR
Standard scales:			
905.243	24	25x	24.50
905.244	13	50x	24.50
905.237	34	75x	24.50
905.238	44	100x	37.40
Scales for inspection of printed matter and tools:			
905.245	25	25x	24.50
905.246	14	50x	24.50
905.239	35	75x	24.50
905.240	45	100x	37.40

Item No.	Magnification	Field of view ø/mm	Working distance/mm	Measuring range/mm	Graduation mm	Price EUR
905.249	25x	3.3	17.0	3.0	0.05	137.00
905.250	50x	2.0	11.7	1.6	0.02	150.00
905.251	75x	1.1	11.7	1.0	0.01	159.00
905.258	100x	0.84	11.6	0.8	0.005	181.00

C13.215.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Robust Stand magnifier 5x with LED illumination

Robust stand magnifier with aluminum housing, LED illumination and a very large field of view.

- Field of view: ø 85 mm.
- Lens diameter: ø 70 mm.
- Illumination: 3 LEDs with 3 luminous intensity settings.
- Aluminum housing.
- Dimensions: ø 94 x 52 mm.
- Weight: 194 g.
- Delivery in a soft case with a micro fiber cleaning cloth and micro USB cable.
- Power supply: rechargeable battery with micro USB cable.





PRICE

Item No.	Magnification	Price EUR
910.254	5x	34.00

Scale magnifier 10x with LED illumination

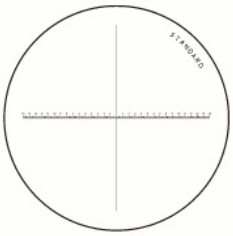
All-purpose scale magnifier with LED illumination and a large field of view.

- Field of view: ø 30 mm.
- Measuring range standard scale: 30 mm.
- Graduation: 0.1 mm.
- Illumination: 8 LEDs.
- Dimensions: ø 45 x 51 mm.
- Weight: 106 g.
- For optional scales: see “Peak scales ø 35 mm”.
- Power supply: 4 batteries (V394).



PRICE

Item No.	Description	Price EUR
910.319	Magnifier with standard scale in a case *(for scales of ø 35 mm)*	45.00
Option:		
420.248	Spare battery (4 needed)	1.50





C13.323.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Magnifying glass 2-20x with LED illumination

Handy magnifying glass with LED illumination. This magnifying glass has two lenses. One big lens and a small lens in the handle.

- Magnification: 2x (108 x 63 mm) and 20x (ø 21 mm).
- Illumination: 2 COB-LED strips (big lens) and 1 LED (small lens).
- Two luminous intensity settings.
- Dimensions: 136 x 96 mm, handle 115 mm.
- Weight (without batteries): 206 g.
- Delivery with a micro fiber cleaning cloth.
- Power supply: 3 batteries 1.5 V (AAA).



PRICE

Item No.	Description	Price EUR
910.317	Magnifying glass 2-20x	8.50
Option:		
497.914	Spare battery (3 needed)	0.80

Magnifying glass 2-6x with LED and UV illumination

Handy magnifying glass with LED and UV illumination. This model of the classic magnifying glass has a lens-in-lens construction. In the big lens a smaller lens has been integrated which offers extra strong magnification.

- Magnification: 2x (ø 85 mm) and 6x (ø 21 mm).
- Illumination: switch between 3 LEDs and 1 UV LED.
- Weight (without batteries): 116 g.
- Dimensions: ø 99 x 230 mm.
- Power supply: 3 batteries 1.5 V (AA).



PRICE

Item No.	Description	Price EUR
910.318	Magnifying glass 2-6x	5.10
Option:		
495.111	Spare battery (3 needed)	0.70

Schut

C13.322.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Precision scale magnifiers 6x ... 12x

Precision scale magnifiers with parallax-free reading and black anodized aluminum open housing. The eyepiece can be removed to be used as a stand-alone magnifier.

- Precision aplanatic glass lenses.
- Adjustable for individual focus.
- Removable eyepiece.
- Scale accuracy ±(0.01+L/1000) mm.
- Delivery in a plastic tube.



903.201



Item No.	Magnification	Scale length mm	Graduation mm	Graduation thickness/mm	Price EUR
903.200	6x	20	0.1	0.02	101.00
903.201	8x	10	0.1	0.02	97.00
903.202	10x	10	0.1	0.02	101.00
903.203	12x	6	0.05	0.01	117.00
Options:					
498.823	Battery (3 needed)				2.40
903.204	LED illumination				48.00


903.204

Scales with guided magnifying glass

Stainless steel scales of up to 400 mm for precise measurement on different surfaces. Delivered with one black anodized aluminum 10x magnifier with parallax-free reading. An optional second sliding magnifier can be added to the scale. The optional LED illumination can be used on these magnifiers as well.

- Measuring range: 0 - 400 mm.
- Graduation: 0.1 mm.
- Graduation thickness: 0.02 mm.
- Accuracy: ±0.02 mm.
- Delivery in a plastic case.



903.205 + 903.209

Item No.	Measuring range/mm	Scale length mm	Price EUR
903.205	100	150	254.00
903.206	212	262	332.00
903.207	300	350	485.00
903.208	400	450	600.00
Options:			
903.209	Second magnifier with slider		78.00
903.204	LED illumination		48.00

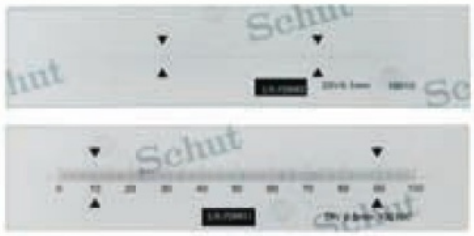
C13.326.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

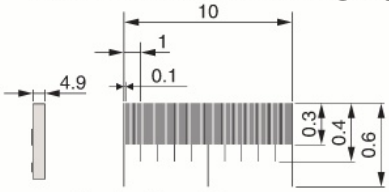
Glass rulers *L* = 50 ... 300 mm

Very accurate glass rulers, made from clear glass with a 0.1 or 0.5 mm graduation. Ideal for checking the magnification accuracy of profile projectors and microscopes, as well as the table feed accuracy of measuring equipment.

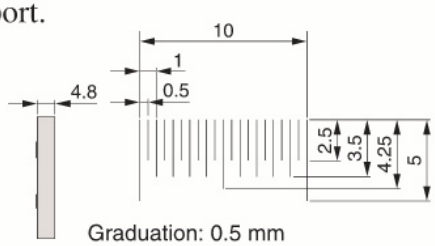
- Graduation: 0.1 or 0.5 mm.
- Accuracy: (1.5 + 2L/1000) µm; L = measuring length in mm.
- Material: sodium glass.
- Expansion coefficient: $8.6 \cdot 10^{-6}$/°C.
- Thickness: 5 mm.
- Width: 30 mm.
- With serial number.
- Delivery in an aluminum carrying case with a manufacturer measuring report.







Graduation: 0.1 mm



Graduation: 0.5 mm

Item No.	Measuring range/mm	Graduation mm	Line thickness graduation/mm	Total length mm	Weight g	Price EUR
910.321	0- 50	0.1	0.01	80	29	206.00
910.322	0- 50	0.5	0.1	80	29	206.00
910.255	0-100	0.1	0.01	130	47	275.00
910.521	0-100	0.5	0.1	130	47	275.00
910.256	0-200	0.1	0.01	230	83	393.00
910.522	0-200	0.5	0.1	230	83	393.00
910.257	0-300	0.1	0.01	330	119	593.00
910.523	0-300	0.5	0.1	330	119	593.00

Electronic carbon scales for magnifier

- Measuring range: 0-1450 mm.
- Resolution: 0.01 mm.
- Intake magnifier: ø41 mm.
- mm/inch conversion.
- Proximity data output.
- Reset/preset.
- Excl. magnifier (905.180).
- Delivery in a wooden case with a manufacturer measuring report.
- Power supply: 1 battery type CR2032.


838.715

Item No.	Measuring range/mm	Accuracy mm	Length mm/A	Weight kg	Price EUR
838.715	0- 450	±0.03	720	1	1,548.00
838.716	0- 750	±0.03	1020	1.9	2,050.00
838.717	0-1150	±0.05	1420	3	2,800.00
838.718	0-1450	±0.06	1720	3.7	4,100.00
Options:					
495.157	Spare battery				0.40
905.180	Magnifier with standard scale 905.181				58.00
996.664	Holder for Dino-Lite USB measuring microscopes[1]				56.00


996.664

[1] For Dino-Lite Edge models with normal working distance; magnification approx. 30x.

C13.331.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Light magnifiers with fluorescent or LED illumination

Large lens with a large field of view. Very suitable for production and assembly of precision instruments.

- Magnification:
  1.75x (3 dpt.): 909.648,
  1.75x + 4x (3 dpt. + 12 dpt.): 909.649,
  2.25x (5 dpt.): 909.650, 909.651.
- Lens: ø 100 mm + ø 20 mm: 909.649,
  ø 120 mm: 909650, 909651,
  ø 127 mm: 909.648.
- Span table clamp: 50 mm.
- Dimensions and weight base 910.430:
  310 x 215 mm, 4 kg.
- Power supply: 230 V.















With circular fluorescent tube

Item No.	Description	Price EUR
909.650	With table clamp	66.00
909.651	With base	84.00
Option:		
909.654	Spare bulb 22 W	8.80

With LED ring light

Item No.	Description	Price EUR
909.648	56 SMD-LEDs, with table clamp	93.00
909.649	60 LEDs, with base	52.00



Options (only for 909.648 and 909.650):

Item No.	Description	Price EUR
910.427	Table clamp	11.80
910.428	Wall mount	11.80
910.429	Table mount	11.80
910.430	Base	43.00

C13.327.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Stereo zoom microscopes with auxiliary lenses SSM-10/20

Stereo zoom microscopes with a sharp erect image and a large field of view. Equipped with a double objective (2x/4x is used the most; also available 1x/2x and 1x/3x), so that the magnification can be changed with a simple rotary motion. The magnification of the eyepieces is 10x (optionally 5x, 15x and 20x). The magnification can be adjusted to your application even more with an optional auxiliary lens (0.5x, 0.75x, 1.5x or 2x). For all accessories, please refer to the pages "SSM stereo microscope accessories".

- Stand with round (flattened) column and anti drop facility.
- Microscope head: 360° rotatable.
- Viewing angle: 45°.
- Interpupillary distance: adjustable (55 - 75 mm).
- Left eyepiece with diopter adjustment: ±5 dpt.
- Working distance (without aux. lens): 72 mm.
- Stage plate: black/white (two-sided).
- Delivery incl. dust cover and soft rubber eye adapters.

Item No.	Type	Magnification	Price EUR
909.006	SSM-10	20x/40x	212.00
909.046	SSM-10	10x/20x	212.00
909.036	SSM-10	10x/30x	212.00
909.007[1]	SSM-20C2	20x/40x	264.00
909.047[1]	SSM-20C2	10x/20x	264.00
909.037[1]	SSM-20C2	10x/30x	264.00

[1] With LED illumination.

See for accessories the pages "SSM stereo microscope accessories".



909.036

Illumination: LED incident light and LED backlight

Model SSM-20C2 is equipped with LED incident light and LED backlight, and the luminous intensity is adjustable.

- Stage plate: opal glass. Delivery incl. black/white stage plate.
- Power supply: 230 Vac (50 Hz).

Type		SSM-10	SSM-20C2
Eyepiece	*M*	10x	10x
Objective	*M*	2x/4x, 1x/2x *or* 1x/3x	
Total range*	*M*	5-160x, 2½-80x *or* 2½-120x	
Illumination		*no*	*yes*
Max. object height	mm	100	100
Travel of rack	mm	60	60
Stage plate	ø/mm	75	95
Dimensions	*l*x*w*x*h*/mm	260x170x290	270x235x330
Weight	kg	3.0	4.3

* The magnification range of the microscope in combination with the optional eyepieces 5-20x and auxiliary lenses 0.5-2x.



909.007

C13.306.EN.20230516

Stereo microscopes with stepless zoom SSM-E

Stereo zoom microscopes with a sharp erect image and a large field of view. The special microscope head is equipped with stepless zoom; in combination with the standard 10x eyepieces (optionally 20x) you can smoothly zoom in from 10x to 40x magnification. The magnification can be adjusted to your application even more with an optional auxiliary lens (0.5x, 0.75x, 1.5x or 2x). For all accessories, please refer to the pages "SSM stereo microscope accessories".

- Stand with round (flattened) column and anti drop facility.
- Microscope head: 360° rotatable.
- Viewing angle: 45°.
- Interpupillary distance: adjustable (55 - 75 mm).
- Both eyepieces with diopter adjustment: ±5 dpt.
- Working distance (without aux. lens): 85 mm.
- Equipped with LED incident light and LED backlight, and the luminous intensity is adjustable.
- Stage plate: opal glass.
- Delivery incl. dust cover, soft rubber eye adapters and black/white stage plate.
- Power supply: 230 Vac (50 Hz).

Item No.	Type	Magnification	Price EUR
909.010	SSM-EC2	10 - 40x	447.00
908.998	SSM-3EC2	10 - 40x	506.00

See for accessories the pages "SSM stereo microscope accessories".



909.010



908.998

Type		SSM-EC2	SSM-3EC2
Eyepiece	*M*	10x	10x
Objective	*M*	1-4x	1-4x
Total range*	*M*	5-160x	5-160x
Illumination		*yes*	*yes*
Max. object height	mm	110	110
Travel of rack	mm	60	60
Stage plate	ø/mm	95	95
Dimensions	*l*x*w*x*h*/mm	330x235x360	330x235x395
Weight	kg	4.8	5.4

* The magnification range of the microscope in combination with the 10x eyepieces, the optional 20x eyepieces and the optional auxiliary lenses 0.5-2x.



908.998

Camera connection

Model 3EC2 is equipped with camera connection. See the accessories page for the total magnification range with camera.

C13.307.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

SSM stereo microscope accessories

USB microscope cameras

For viewing and saving images. They fit in the ocular (ø 30 mm) of an SSM microscope and/or the adapter bushing (ø 23 mm) of the models SSM-3E/3EC2.

- Field of view: see table.
- Resolution: 1.3 Mpx or 5 Mpx.
- Suitable for Windows and Mac OS X.
- Measuring of distances, radii and angles.

Auxiliary lenses

The magnification can be adjusted to your application even more with an optional auxiliary lens. Note concerning stereo microscopes with a fixed stand: auxiliary lens 0.5x is not suitable, and with auxiliary lenses 1.5x and 2x focusing on the stage plate is not possible (the product needs to be positioned higher).





Pairs of eyepieces



Soft rubber eye adapters

Item No.	Description	Price EUR
909.089	Per pair	4.70



Item No.	Description	Price EUR
Pairs of eyepieces for SSM-2/3/5/10/20:		
909.050	*M* = 5x	50.00
909.051	*M* = 10x	50.00
909.052	*M* = 15x	44.00
909.053	*M* = 20x	44.00
Pairs of eyepieces for SSM-E:		
909.055	*M* = 10x	54.00
909.057	*M* = 20x	74.00
Eyepieces with crosshair for SSM-E:		
909.095	*M* = 10x *(per piece)*	59.00
909.096	*M* = 20x *(per piece)*	50.00
Auxiliary lenses (for SSM-10/20/E):		
909.018	*M* = 0.5x	61.00
909.019	*M* = 0.75x	61.00
909.020	*M* = 1.5x	61.00
909.021	*M* = 2x	61.00
USB microscope cameras:		
774.145	1.3 Mpx, ø 23 mm	239.00
774.296	1.3 Mpx, ø 23 / 30 / 30.5 mm	409.00
774.243	5 Mpx, ø 23 / 30 / 30.5 mm	579.00

Magnification objective	Microscope magnification / Field of view/mm			
	Eyepiece 5x	**Eyepiece 10x**	**Eyepiece 15x**	**Eyepiece 20x**
Stereo microscope SSM-2:				
2x	10x / ø 10.0	20x / ø 10.0	30x / ø 7.0	40x / ø 5.0
Stereo zoom microscope SSM-3/5:				
1x	5x / ø 20.0	10x / ø 20.0	15x / ø 15.0	20x / ø 10.0
2x	10x / ø 10.0	20x / ø 10.0	30x / ø 7.0	40x / ø 5.0
3x	15x / ø 7.0	30x / ø 7.0	45x / ø 5.0	60x / ø 3.5
4x	20x / ø 5.0	40x / ø 5.0	60x / ø 3.5	80x / ø 2.5
Stereo zoom microscope SSM-10/20 (without auxiliary lens):				
1x	5x / ø 20.0	10x / ø 20.0	15x / ø 15.0	20x / ø 10.0
2x	10x / ø 10.0	20x / ø 10.0	30x / ø 7.0	40x / ø 5.0
3x	15x / ø 7.0	30x / ø 7.0	45x / ø 5.0	60x / ø 3.5
4x	20x / ø 5.0	40x / ø 5.0	60x / ø 3.5	80x / ø 2.5

Magnification objective	Magnification / Field of view/mm		Field of view camera/mm		
	Eyepiece 10x	**Eyepiece 20x**	**774.145**	**774.296**	**774.243**
Stereo microscope with stepless zoom SSM-E (without auxiliary lens):					
from **1x**	10x / ø 20.0	20x / ø 10.0	4.5 x 3.3[1]	6.8 x 5.0[1]	19.0 x 14.0[1]
to **4x**	40x / ø 5.0	80x / ø 2.5	1.2 x 0.8[1]	1.4 x 1.0[1]	2.7 x 2.0[1]
from **1x**				5.6 x 4.1[2]	18.0 x 12.0[2]
to **4x**				1.34 x 1.0[2]	2.4 x 1.8[2]

[1] Camera intake in adapter bushing.
[2] Camera intake in ocular.

C13.308.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

SSM stereo microscope accessories (continued)

LED optical fiber illumination



LED optical fiber ring light[1,2]

Suitable for stereo microscopes SSM-10/20/E.
Note: not for use in combination with auxiliary lenses.





Ring light[1,2]

Suitable for SSM-10/20/E (909.085).

Dark field condenser

The contrast of transparent objects is enhanced. Suitable for all SSM stereo microscopes with backlight.



- Diameter: 94 mm.
- Stage: ø 27 mm.

XY measuring table



- Range: X, Y: 25 mm.
- Intake microscope: ø 94 mm.
- Turnable object plate with degree indication.
- Excl. two analog micrometer heads (intake ø 12 mm; 906.072 measuring range 25 mm).

Item No.	Description	Price EUR
LED optical fiber illumination:		
910.107	Light source LED, 20 W	412.00
909.030	Single flexible arm	144.00
909.028	Dual flexible arm	183.00
909.029	Optical fiber ring light[1,2]	298.00
Ring light[1,2]:		
909.085	Ring light 60 LEDs	124.00
Spare bulbs (standard illumination):		
499.377	For SSM-2/3/5	1.50
498.157	For SSM-20W/EW and for transmitted light SSM-3E	4.90
499.379	For incident light SSM-3E	4.10
438.211	Fuse F 0.5 A, 250 V for SSM-2/3/5/20W/EW/3E	0.50
Other options:		
909.022	Dark field condenser	53.00
908.999	XY measuring table	569.00
960.255	Dial indicator holder	85.00
635.222	Field of view qualifier	141.00

[1] Delivery incl. adapter ring.
[2] Note: microscopes with standard provided incident light, this incident light must be removed before installing the ring light.

Dial indicator holder

Suitable for stereo microscopes with round column from the series SSM-10/20/E, for height measurements. The accuracy increases with higher magnification.



- Excl. dial indicator.
- The travel of the microscopes is 60 mm; see the dial indicators category for a suitable dial indicator with measuring range 50 or 60 mm.

Field of view qualifier

- Accuracy: ±0.002 mm.

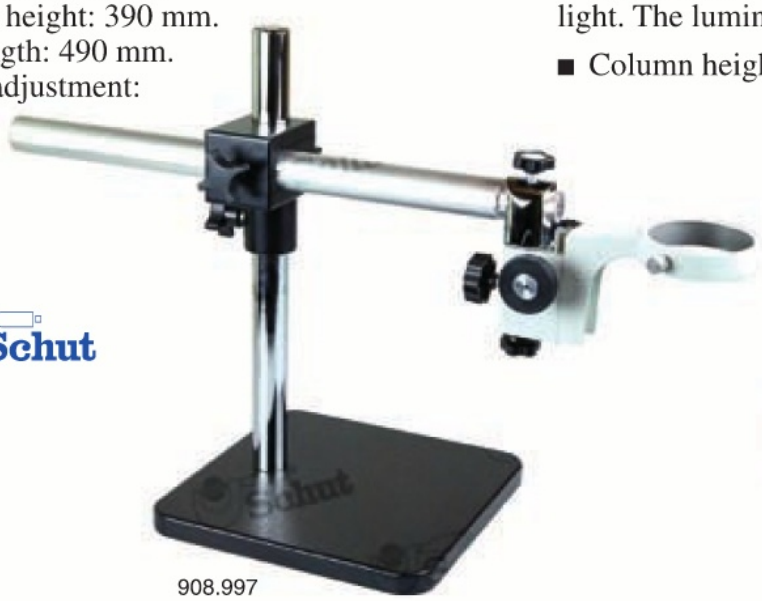


C13.310.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

SSM stereo microscope accessories (continued)

Large stand
- Base: 255 x 255 mm.
- Column height: 390 mm.
- Arm length: 490 mm.
- Height adjustment: 60 mm.



908.997

Stand with illumination

Equipped with LED incident light and back-light. The luminous intensity is adjustable.
- Column height: 185 mm.


909.405

LCD microscope head
- Screen: 8" color.
- CCD: 1/3" color.
- Zoom lens: 0.65 - 5.5.
- Magnification: 10 - 85x.
- Working distance: 10.5 cm.
- Crosshair can be toggled on/off.
- Field of view: from 1.3 x 1.8 mm (M = 85x) to 12 x 16 mm (M = 10x).


909.406


909.405
+909.406
+870.006
+334.695

Microscope heads
- With or without camera connection.


909.093


909.092

PRICE

Item No.	Description	Price EUR
Microscope stands:		
908.997	Large stand	247.00
909.405	Stand with illumination	144.00
870.006[1]	Column 400 mm	33.60
Microscope heads:		
909.092	Microscope head	377.00
909.093	Microscope head with camera connection	436.00
909.406[2]	LCD microscope head	1,137.00
334.695	Mini AC adapter 12 Vdc, 1 A	29.00

[1] To be used with stand 909.405 for a larger Z axis range.
[2] Adapter 334.695 required.

C13.312.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Dino-Lite USB video measuring microscopes

Very versatile and compact digital microscopes with measuring functions for various medical, industrial and educational applications. Optical product inspection can even be performed around your production machine; thanks to the stepless magnification and LED illumination you can display your products very clearly on the screen. Images can be saved as a picture or video file. Geometrical forms, such as distances, radius and angles can be measured.

- Magnification: stepless or fixed.
- Resolution: 1.3 Mpx (1280 x 1024 px) or 5 Mpx (2592 x 1944 px).
- Illumination: 8 LED white ring light.
- With software for Windows and Mac OS X (limited support under Mac OS X).
- Measuring and calibration function and edge detection.
- Plastic or aluminum housing.
- Dimensions: ø 32 x 120 mm.
- Connection and power supply: USB cable (1.8 m).

Also available:
– models with magnification up to 900x or coaxial light,
– models with laser pointer,
– with PAL, VGA or DVI connection for live images on TV screen, monitor or beamer,
– with special illumination by near-UV, near-IR, fluorescent or stroboscopic LEDs,
– WiFi streamer or WiFi module for a wireless connection with a tablet or a smartphone,
– ESD-safe models available,
– USB 3.0 models with a higher frame rate,
– models with extra long working distance for a large field of view.

NEW





774.228

Download the brochure from Schut.com





774.278



774.278
+774.281



Schut

C13.313.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Dino-Lite USB video measuring microscopes (continued)

Item No.	774.081	774.088	774.210	774.106	774.024[1]	774.250[1]	774.277[1]	774.278[1]	774.280[1]
Price EUR	*349.00*	*429.00*	*539.00*	*619.00*	*629.00*	*639.00*	*639.00*	*929.00*	*929.00*
Magnification (stepless)	10-70x	10-70x	10-140x	10-90x	10-140x	10-70x	20-220x	20-220x	10-140x
Magnification (fixed)	200x	200x	–	–	–	–	–	–	–
Resolution px	1.3 M	1.3 M	1.3 M	1.3 M	1.3 M	1.3 M	1.3 M	1.3 M	1.3 M
FLC[2]	–	–	–	–	–	–	✓	✓	✓
EDOF/EDR[3]	–	–	–	–	–	–	–	✓	✓
AMR[4]	–	–	–	–	–	–	–	✓	✓
Field of view (mm) min. magnif. max. magnif.	 19.8x14.9 1.7x1.2	 19.8x14.9 1.7x1.2	 39.0x31.2 2.8x2.2	 19.8x14.9 4.4x3.3	 39.0x31.2 2.8x2.2	 39.0x31.2 5.6x4.5	 19.5x15.6 1.8x1.4	 19.5x15.6 1.8x1.4	 39.0x31.2 2.8x2.2
Polarizer	–	✓	✓	✓	✓	–	✓	✓	✓
Long working distance mm	– -2..48	– -2..48	✓ 30..234	✓ 46..151	✓ 30..234	✓xtra 115..480	– 4..60	– 4..60	✓ 30..234
Removable front	–	–	✓	–	✓	✓	✓	✓	✓
Aluminum housing	–	–	–	✓	–	–	–	–	–
Removable cable for WiFi module	–	–	–	–	–	–	✓	✓	✓
USB interface	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

Item No.	774.330	774.314[6]	774.216[1]	774.251[1]	774.246[1]	774.228[1]	774.229[1]	774.252[1]	774.253[1]
Price EUR	*1,099.00*	*1,169.00*	*929.00*	*1,099.00*	*1,099.00*	*1,169.00*	*1,169.00*	*1,399.00*	*1,399.00*
Magnification (stepless)	130-220x	20-220x	10-140x	10-70x	10-220x	10-220x	10-140x	10-220x	10-140x
Laser pointer	✓	–	–	–	–	–	–	–	–
Resolution px	5 M	1.3 M	5 M	5 M	5 M	5 M	5 M	5 M	5 M
FLC[2]	✓	✓ eFLC	✓	✓	✓	✓	✓	✓	✓
EDOF/EDR[3]	–	✓	–	–	–	✓	✓	✓	✓
AMR[4]	✓	✓	–	–	–	✓	✓	✓	✓
Field of view (mm) min. magnif. max. magnif.	 3.0x2.2 1.8x1.3	 19.5x14.7 1.8x1.3	 39.0x31.2 2.8x2.2	 39.0x31.2 5.6x4.5	 37.8x28.3 1.8x1.3	 37.8x28.3 1.8x1.3	 39.0x31.2 2.8x2.2	 37.8x28.3 1.8x1.3	 39.0x31.2 2.8x2.2
Polarizer	✓	✓	✓	–	✓	✓	✓	✓	✓
Long working distance mm	– 4.5..11.9	– 4..60	✓ 30..234	✓xtra 115..480	– 12..136	– 12..136	✓ 30..234	– 12..136	✓ 30..234
Removable front	✓	✓	✓	✓	✓	✓	✓	✓	✓
Aluminum housing	✓	✓	✓	✓	✓	✓	✓	✓	✓
USB interface	2.0	2.0[5]	2.0	3.0	3.0	2.0	2.0	3.0	3.0

[1] New Edge generation with better optics and exchangeable front sides.
[2] FLC: Flexible Light Control. eFLC: 2 different intensities possible.
[3] EDOF: Extended Depth of Field / EDR: Extended Dynamic Range.
[4] AMR: Auto-Magnification Read.
[5] Detachable micro USB cable (included).
[6] New Edge plus generation with indicative depth measurement.

NEW

C13.320.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Dino-Lite microscope accessories

Stable positioning is required for sharp pictures and accurate measurements. The measuring microscopes can be positioned stably with a microscope stand.

Schut

NEW

Item No.	Description	Price EUR
Microscope stands:		
774.272	Basic stand	67.00
774.298	Stand with fine adjustment and tiltable column	229.00
774.262[1]	Stand with pivoting arm	229.00
774.115	Flexible arm for 774.262	56.50
774.026	High precision aluminum stand	309.00
774.117	Heavy-duty stand with table clamp and jointed arm	303.00
774.118	Heavy-duty stand with base and jointed arm	361.00
774.221[2]	Vertical arm for 774.026/774.262	27.50
774.237	XY-positioning arm for 774.026/774.262	139.00
774.065	Flexibele arm for 774.026/774.262	50.50
WiFi streamers:		
774.022[3]	WiFi streamer WF-10	299.00
774.281[4]	WiFi streamer WF-20	279.00
Other options:		
774.259	Calibration target	13.95
774.155	Holder for mounting on a microscope stand	14.50
996.390[5]	Reducing coupling ø 10/8 mm	6.90
774.130	Rolling stand incl. aluminum holder	115.00
774.153	Aluminum holder	54.50
774.094	XY table	175.00
774.100[6]	Polarized backlight stage	259.00
774.120[6]	Polarized LED illumination	42.50
774.060	Ring Light Cap for Dino-Lite Edge	89.00
419.030	USB extension cable (3 m)	6.20
774.121	USB foot switch	57.50
774.122	Plastic carrying case (IP67)	32.50

[1] ESD-safe model available.
[2] In combination with microscopes with long working distance.
[3] In combination with all recent USB 2.0 microscopes.
[4] In combination with microscopes with removable cable.
[5] For mounting holder 774.155 on a dial indicator stand.
[6] More suitable in combination with the microscopes with polarizer.



C13.316.EN.20230516

Industrial endoscope

Industrial endoscope for inspecting hard-to-reach places by means of a flexible cable. Equipped with built-in illumination.

With the endoscope images can be watched on the integrated LCD color display. With the supplied MicroSD card photos and videos can be made and saved.

- Automatic switch-off.
- Bendable camera cable: ø 5.5 mm.
- Cable length: 1 m.
- Field of view: 70°.
- Focus distance: 30 - 60 mm.
- Camera resolution: 1.0 Mpx HD.
- Camera IP67.
- 5" LCD color display 720P HD.
- Video resolution: 1280 x 720 px.
- Photo resolution: 1920 x 1080.
- 2x digital zoom.
- 180° rotatable image.
- Illumination: 6 LEDs, intensity adjustable.
- Flashlight in the handle.
- Delivery with 45° mirror, magnet, hook and MicroSD card (32 GB).
- Delivery in a plastic carrying case.
- Power supply: 1 rechargeable lithium battery 3.7 V, 5000 mAh.
- USB charging cable included.



910.170

Item No.	Camera ø/mm	Cable ø/mm	Cable length/m	Price EUR
910.170	5.5	5	1	280.00
Options:				
910.172* Cable length 1 m				112.00
910.176* Mirror, magnet and hook				19.70

* Standard included.

C13.319.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

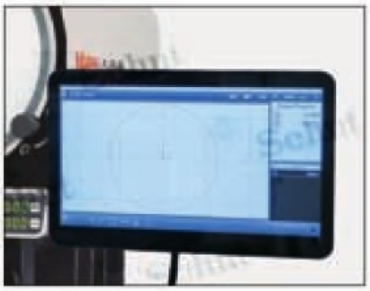
Mitutoyo profile projectors PJ-Plus series

Convenient and multifunctional profile projector for measurements on small and medium sized objects. Standard equipped with LED surface and contour illumination and a 10x projection lens. The rotatable screen with an effective diameter of 315 mm is provided with a digital protractor to eliminate the need to perform complex calculations. Easy to read digital counters located near the projection screen accurately display XY stage travel. Ergonomically placed hand wheels for normal table adjustments and 'free floating' quick adjustment for axes from 100 mm. Many optional accessories are available.

As an expansion for new and older projectors, a tablet PC with M2 software and optional edge detection is available. Measuring programs and results are saved in its memory. Besides measuring circle, point, line, ellipse, rectangle, distance, intersection and angle you have additional analysis options like squareness and parallelism.

- Measuring range: 100 x 100 or 200 x 100 mm.
- Resolution: 0.001 mm.
- ABS/INC switchable.
- RS232C data output.
- Reset.
- Reversible measuring direction.
- Built-in bevel protractor:
  measuring range: ±360°,
  resolution: 1'/0.01° switchable.
- Max. deviation of the enlargement:
  0.1% with contour illumination,
  0.15% with surface illumination.
- Dimensions: 741 x 1092 x 400 mm.
- Measuring table:
  PJ-P1010A: 250 x 250 mm,
  PJ-P2010A: 380 x 250 mm.
- Max. workpiece height:
  PJ-P1010A: 91 mm,
  PJ-P2010A: 90.5 mm.
- Illumination: LED lamp.
- Weight:
  PJ-P1010A: 114 kg,
  PJ-P2010A: 118 kg.
- Standard accessories:
  – projection lens 10x,
  – dust cover,
  – masking shield.





M2 SET

Item No.	Type	Measuring range/mm	Price EUR
302.801	PJ-P1010A	100 x 100	
302.802	PJ-P2010A	200 x 100	

C13.302.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

LED optical fiber illumination

Consists of LED cold light source and fiber optic light guide with single or double arm gooseneck flexible arm. The adjustable flexible arm and adjustable brightness level give you the right angle of illumination and lighting of the product for every situation.



Item No.	Description	Price EUR
910.107	Light source LED, 20 W	412.00
909.030	Single flexible arm	144.00
909.028	Dual flexible arm	183.00

Field of view qualifier

Glass reference standard with a pattern consisting of wide variety of very accurate optical characteristics, produced with a coating (chrome). Very suitable for use with optical instruments as geometric accuracy standard or as a test and training object.

- Accuracy: ±0.002 mm.
- Delivery including drawing with size indication.



Item No.	Description	Price EUR
635.222	Field of view qualifier	141.00

Special cleaner

Special cleaner (120 ml) for objectives, glass plates and other optical components.



Item No.	Description	Price EUR
111.534	Special cleaner	21.00

Optical cleaning kit

This cleaning kit is ideal to clean optics, microscopes and magnifying glasses, but can also be used on other products.

The set consists of:
– a bottle of cleaning solution (15 ml),
– a micro fiber cleaning cloth,
– a soft brush,
– an air blower.



Item No.	Description	Price EUR
909.432	Optical cleaning kit	7.10

C13.318.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Graduated rulers / Scale units / Circumference tapes
Precision tapes / Distance meters



Accuracy of graduated rulers according DIN 2014/32/EC		
Measuring range (mm)	Max. permissible errors (± mm) EC I	EC II
0 - 500	0.15	0.40
0 - 1000	0.20	0.50
0 - 1500	0.25	0.60
0 - 2000	0.30	0.70
0 - 3000	0.40	0.90
0 - 4000	0.50	1.10

Accuracy of graduated rulers according DIN 866 form A/B		
Measuring range (mm)	Max. permissible errors (± mm) form A	form B
0 - 500	0.04	0.10
0 - 1000	0.04	0.10
0 - 1500	0.06	0.15
0 - 2000	0.06	0.15
0 - 3000	0.08	0.20
0 - 4000	0.10	0.25
0 - 5000	0.12	0.30

C14.000.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Precision rulers

- Measuring range: 0 - 3000 mm.
- Graduation: 1 mm.
- Material: bright steel or stainless steel.
- No graduation on first 5 mm at both ends.
- Accuracy and construction according DIN 866 form A.
- Available on request up to 5000 mm.





Dimensions *l* x *w* x *t*/mm	Bright steel Item No.	Price EUR	Stainless steel Item No.	Price EUR	Wooden case Item No.	Price EUR
500 x 30 x 6	771.000	21.10	771.005	37.90	776.568	47.00
1000 x 40 x 8	771.001	47.00	771.006	88.00	776.468	70.00
1500 x 40 x 8	771.002	87.00	771.007	140.00	776.561	96.00
2000 x 50 x 10	771.003	126.00	771.008	263.00	776.562	135.00
3000 x 50 x 10	771.004	274.00	771.009	477.00		

Precision rulers

- Measuring range: 0 - 3000 mm.
- Graduation: 1 mm.
- Material: bright steel or stainless steel.
- Zero coincides with left end.
- Accuracy and construction according DIN 866 form B.
- Available on request up to 5000 mm.





Dimensions *l* x *w* x *t*/mm	Bright steel Item No.	Price EUR	Stainless steel Item No.	Price EUR	Wooden case Item No.	Price EUR
500 x 25 x 5	771.010	14.00	771.015	26.70	776.568	47.00
1000 x 30 x 6	771.011	28.10	771.016	59.00	776.468	70.00
1500 x 30 x 6	771.012	47.00	771.017	97.00	776.561	96.00
2000 x 40 x 8	771.013	79.00	771.018	168.00	776.562	135.00
3000 x 40 x 8	771.014	168.00	771.019	309.00		

C14.307.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Rulers

Rulers with beveled edge for parallax-free reading.

- Measuring range: 0 - 2000 mm.
- Graduation: 1 mm.
- Material: bright steel.
- Zero coincides with left end.
- With hanger hole.



910.216



Item No.	Dimensions *l* x *w* x *t*/mm	Price EUR
910.216	300 x 40 x 5	15.20
910.217	500 x 40 x 5	19.00
910.218	1000 x 40 x 5	38.10
910.219	1500 x 40 x 5	69.00
910.220	2000 x 40 x 5	107.00



Aluminum rulers

- Measuring range: 0 - 1000 mm.
- Graduation: 1 mm.
- Material: anodized aluminum.
- Zero coincides with left end.
- With hanger hole.



906.615



Item No.	Dimensions *l* x *w* x *t*/mm	Price EUR
906.615	300 x 50 x 5	4.30
906.616	600 x 50 x 5	6.40
906.617	1000 x 50 x 5	9.80

Aluminum rulers

- Measuring range: 0 - 1000 mm.
- Graduation: 1 mm.
- Material: anodized aluminum.
- With hanger hole.



775.590



775.600

Item No.	Dimensions *l* x *w* x *t*/mm	Price EUR
775.590	300 x 35 x 5	2.70
775.592	600 x 35 x 5	5.80
775.593	1000 x 35 x 5	9.10
With handle and magnets:		
775.600	450 x 50 x 5	9.80
775.602	1000 x 50 x 5	20.90

C14.202.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Stainless steel rulers

- Measuring range: 0 - 3000 mm.
- Graduation: 1 mm.
- Matt chrome-plated stainless steel surface.
- With mm graduation on the upper edge.
- With 0.5 mm graduation on the lower edge.





775.302

Item No.	Dimensions *l* x *w* x *t*/mm	Price EUR
With mm/0.5 mm graduation:		
775.584	1000 x 35 x 1.2	13.40
775.585	1500 x 40 x 2	74.00
775.586	2000 x 40 x 2	99.00
With mm/mm graduation: The first 100 mm on the lower edge have a 0.5 mm graduation.		
775.303	1000 x 35 x 1.5	38.10
775.304	2000 x 41 x 2	198.00
775.305	3000 x 39 x 3	501.00

Stainless steel rulers

- Measuring range: 0 - 1000 mm.
- Graduation: 1 mm on the front side on the upper and lower edges, 0.5 mm on the back side on the upper and lower edges.
- Matt chrome-plated stainless steel surface.
- EC class II.
- Etched graduation.



910.323







Item No.	Dimensions *l* x *w* x *t*/mm	Price EUR
910.323	300 x 30 x 1	4.40
910.324	500 x 30 x 1	5.40
910.325	1000 x 30 x 1	11.80

Self-adhesive rulers

- Measuring range: 0 - 400 mm.
- Graduation: 1 mm, vernier: 0.1 mm.
- Blue anodized aluminum.
- With self-adhesive back.
- Suitable for positioning on measuring devices and machine elements.

Vernier 0.1 mm

- 10 scale devisions on 19 mm.
- Non-adhesive, furnished with two fixing holes ø 2.5 mm.





Item No.	Measuring range/mm	Dimensions *l* x *w* x *t*/mm	Price EUR
775.901	0 - 200	208 x 16 x 0.5	5.80
775.902	0 - 300	308 x 16 x 0.5	10.10
775.903	0 - 400	408 x 16 x 0.5	14.00
775.900	Vernier 0.1 mm	40 x 10 x 0.5	2.40

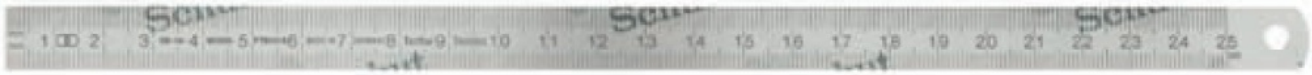
C14.203.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Stainless steel rulers with L→R or R→L numbering

- Measuring range: 0 - 12000 mm.
- Graduation: 1 mm (type B: 0.5 mm).
- Matt chrome-plated stainless steel surface.
- Etched graduation.
- EC class II (up to 4000 mm).
- Rulers from the main table with hanger hole.

Available on request:
– with graduation from top to bottom or from bottom to top,
– with different combinations (mm/mm, mm/inch, mm/blanc, etc.),
– with 0-point in the middle.
– Thickness: from 300 mm: 1 mm, from 500 mm: 2 mm.



835.124



835.266






Item No.	Price EUR	Item No.	Price EUR	Item No.	Price EUR	Item No.	Price EUR	Dimensions *l* x *w* x *t*/mm
L→R type A:		**R→L type A:**		**L→R type B:**		**R→L type B:**		
835.120	1.50	835.121	1.50	835.421	1.50	835.422	1.50	150 x 13 x 0.5
835.122	1.80	835.123	1.80	835.298	1.80	835.440	1.80	200 x 13 x 0.5
835.124	2.10	835.125	2.10	835.427	2.10	835.441	2.10	250 x 13 x 0.5
835.126	2.30	835.127	2.30	835.129	2.30	835.442	2.30	300 x 13 x 0.5
835.130	3.90	835.131	3.90	835.354	3.90	835.443	3.90	500 x 18 x 0.5
835.132	10.00	835.133	10.00	835.252	10.00	835.444	10.00	1000 x 18 x 0.5
835.134	15.00	835.135	15.00	835.428	15.00	835.445	15.00	1500 x 18 x 0.5
835.136	24.10	835.137	24.10	835.429	24.10	835.446	24.10	2000 x 18 x 0.5
835.138	32.30	835.139	32.30	835.430	32.30	835.447	32.30	2500 x 18 x 0.5
835.140	36.60	835.141	36.60	835.431	36.60	835.448	36.60	3000 x 18 x 0.5
835.142	40.00	835.143	40.00	835.432	40.00	835.449	40.00	3500 x 18 x 0.5
835.144	77.00	835.145	77.00	835.433	77.00	835.450	77.00	4000 x 18 x 0.5
835.146	89.00	835.147	89.00	835.413	89.00	835.451	89.00	5000 x 18 x 0.5
835.148	117.00	835.149	117.00	835.434	117.00	835.452	117.00	6000 x 18 x 0.5
835.150	195.00	835.151	195.00	835.035	195.00	835.453	195.00	7000 x 30 x 1
835.152	225.00	835.153	225.00	835.435	225.00	835.454	225.00	8000 x 30 x 1
835.154	247.00	835.155	247.00	835.436	247.00	835.455	247.00	9000 x 30 x 1
835.156	309.00	835.157	309.00	835.437	309.00	835.456	309.00	10000 x 30 x 1
835.158	334.00	835.159	334.00	835.438	334.00	835.457	334.00	11000 x 30 x 1
835.160	373.00	835.161	373.00	835.439	373.00	835.458	373.00	12000 x 30 x 1



835.355

Type A: mm/mm (bottom and top side 1 mm graduation).
Type B: 0.5 mm/1 mm (top side 0.5 mm, bottom side 1 mm graduation).

Rulers with a self-adhesive back

Item No.	Additional costs	Price EUR
835.165	For rulers up to 1000 mm (price per piece)	13.80
	For rulers from 1000 mm (price per meter)	13.80

The self-adhesive back is *not* separately available.

With 0-point in the middle

Item No.	Dimensions *l* x *w* x *t*/mm	Price EUR
835.266	200 x 13 x 0.5	4.50

Other sizes are also available.

C14.305.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Rulers

Stainless steel rulers with laser engraving

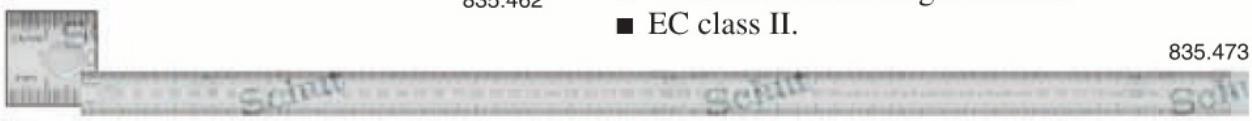
- With mm/mm graduation from left to right.
- Graduation: 1 mm.
- With identification number.
- EC class I.



835.462

Stainless steel rulers with magnet inserts

- Graduation from left to right.
- Laser engraving.
- With 2 flat edges without hanger hole.
- Graduation on front and back side.
- Graduation: front side: 1 mm, 0.5 mm, back side: 1/32", 1/64".
- With removeable magnet inserts.
- EC class II.



835.473

Rulers (black) with laser engraving

- Graduation on front and back side.
- Graduation: front side: 1 mm, 0.5 mm, back side: 1/10", 1/16", 1/20", 1/32", 1/64", 1/50", 1/100".
- EC class II.



835.466

Stainless steel rulers with 90° anvil hook

- Graduation from left to right.
- Laser engraving.
- Graduation: front side: 1 mm, back side: 0.5 mm.
- EC class II.



835.476

Item No.	Dimensions *l* x *w* x *t*/mm	Material	Class	Price EUR
Stainless steel rulers with laser engraving:				
835.096	150 x 13 x 0.5	Matt chrome-plated stainless steel surface	EC class I	2.70
835.459	300 x 13 x 0.5	Matt chrome-plated stainless steel surface	EC class I	4.90
835.460	500 x 20 x 0.5	Matt chrome-plated stainless steel surface	EC class I	8.30
835.461	1000 x 20 x 0.5	Matt chrome-plated stainless steel surface	EC class I	13.20
835.462	300 x 30 x 1.0	Matt chrome-plated stainless steel surface	EC class I	9.80
835.463	500 x 30 x 1.0	Matt chrome-plated stainless steel surface	EC class I	14.30
835.464	1000 x 30 x 1.0	Matt chrome-plated stainless steel surface	EC class I	25.50
835.465	2000 x 30 x 1.0	Matt chrome-plated stainless steel surface	EC class I	64.00
Rulers (black) with laser engraving:				
835.466	150 x 18 x 0.5	Steel, black surface	EC class II	7.70
835.467	300 x 30 x 1.0	Steel, black surface	EC class II	16.90
835.468	450 x 30 x 1.0	Steel, black surface	EC class II	25.10
835.469	600 x 30 x 1.0	Steel, black surface	EC class II	27.70
835.470	1000 x 30 x 1.0	Steel, black surface	EC class II	37.20
Stainless steel rulers with magnet inserts:				
835.471	150 x 20 x 1.0	Matt chrome-plated stainless steel surface	EC class II	17.00
835.472	300 x 30 x 1.0	Matt chrome-plated stainless steel surface	EC class II	26.60
835.473	600 x 30 x 1.0	Matt chrome-plated stainless steel surface	EC class II	35.30
835.474	900 x 30 x 1.0	Matt chrome-plated stainless steel surface	EC class II	37.90
835.475	1200 x 30 x 1.0	Matt chrome-plated stainless steel surface	EC class II	55.00
Stainless steel rulers with 90° anvil hook:				
835.476	200 x 13 x 0.5	Matt chrome-plated stainless steel surface	EC class II	5.10
835.477	300 x 13 x 0.5	Matt chrome-plated stainless steel surface	EC class II	6.10
835.478	500 x 18 x 0.5	Matt chrome-plated stainless steel surface	EC class II	7.50

C14.306.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital horizontal scale units

These scale units are available in two different models. Up to 300 mm the model matches the photo of the 906.403, from 450 mm the photo of the 906.406.

- Measuring range: 0 - 1000 mm.
- Resolution: 0.01 mm.
- Repeatability: 0.01 mm.
- mm/inch conversion.
- ABS/INC switchable (from 450 mm).
- On/off switch.
- Reset.
- Preset (from 450 mm).
- Max. measuring speed:
  <500 mm: 1.5 m/s,
  ≥500 mm: 1 m/s.
- Power supply:
  906.400 - 403: 1 battery type V357,
  906.404 - 409: 1 battery type CR2032.

Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.400	0 - 100	±0.03	35.70
906.401	0 - 150	±0.03	35.70
906.402	0 - 200	±0.03	52.00
906.403	0 - 300	±0.04	83.00
906.404	0 - 450	±0.05	141.00
906.405	0 - 500	±0.05	167.00
906.406	0 - 600	±0.05	231.00
906.408	0 - 800	±0.06	352.00
906.409	0 - 1000	±0.07	440.00
Options:			
836.535	Spare battery type V357		0.80
495.157	Spare battery type CR2032		0.40

906.403



906.406



Digital vertical scale units

- Measuring range: 0 - 1000 mm.
- Resolution: 0.01 mm.
- Repeatability: 0.01 mm.
- mm/inch conversion.
- ABS/INC switchable.
- On/off switch.
- Reset.
- Preset (from 500 mm).
- Max. measuring speed: 1 m/s.
- Power supply:
  1 battery type V357
  (except 906.416 - 419).

Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.415	0 - 100	±0.03	64.00
906.416	0 - 150	±0.03	64.00
906.417	0 - 200	±0.03	82.00
906.418	0 - 300	±0.04	114.00
906.419	0 - 450	±0.05	152.00
906.420	0 - 500	±0.05	193.00
906.421	0 - 600	±0.05	251.00
906.423	0 - 800	±0.06	329.00
906.424	0 - 1000	±0.07	454.00
Options:			
836.535	Spare battery type V357		0.80
495.157	Spare battery type CR2032		0.40

906.417



C16.218.EN.20230516

Mitutoyo digital horizontal and vertical scale units

These scale units are ideal for a simple digital read-out of linear movements on e.g. machines and measuring systems.

- Measuring range: 0 - 300 mm.
- Resolution: 0.01 mm.
- ABS/INC switchable.
- Digimatic data output.
- On/off switch.
- Reset.
- Protection: IP66 (only *Coolant Proof* models).
- Conforms to factory standard.
- Power supply: 1 battery type V357.



572.560



572.602



348.043

Data cables Digimatic, USB Input Tool Direct, U-WAVE available on request.

Schut

Item No.	Measuring range/mm	Accuracy mm	Price EUR
Horizontal:			
572.200	0 - 100	±0.03	270.00
572.201	0 - 150	±0.03	283.00
572.202	0 - 200	±0.03	326.00
572.203	0 - 300	±0.04	576.00
Horizontal, IP66 (*Coolant Proof*):			
572.600	0 - 100	±0.03	312.00
572.601	0 - 150	±0.03	334.00
572.602	0 - 200	±0.03	396.00
Vertical:			
572.560	0 - 100	±0.03	505.00
572.561	0 - 150	±0.03	587.00
572.562	0 - 200	±0.03	651.00
572.563	0 - 300	±0.04	740.00

Option

Item No.	Description	Price EUR
836.535	Spare battery	0.80



C16.310.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Schwenk internal circumference tapes

Circumference tapes to measure the internal circumferences and the average cross-section of round and not-round bores. The surface may be smooth or rough.

- Separate graduations for circumference and diameter in mm.
- Vernier: 0.1 mm.
- Tape width: 20 mm.
- Graduation placed by laser.
- Universal clamp for all types.
- Delivery without clamping jaw.
- Stainless steel construction.



Schut

NEW

Item No.	Diameter mm	Circumference mm	Price EUR
852.645	230 - 490	720 - 1550	277.00
852.646	300 - 700	940 - 2200	290.00
852.647	700 - 1100	2190 - 3460	310.00
852.648	1100 - 1500	3450 - 4720	355.00
852.770	1500 - 1900	4710 - 5980	518.00
852.771	1900 - 2300	5970 - 7230	615.00
852.262	2300 - 2700	7220 - 8500	715.00
852.649	Clamping jaw		417.00

Circumference tapes

- Separate graduations for circumference and diameter in mm.
- Vernier: 0.1 mm.
- Bright steel or stainless steel.
- Accuracy according EC class II.
- With manufacturer measuring report on request.



835.101

Bright steel

Item No.	Diameter mm	Circumference mm	Price EUR
835.111	20 - 300	60 - 950	55.00
835.112	300 - 700	940 - 2200	64.00
835.113	700 - 1100	2190 - 3460	73.00
835.114	1100 - 1500	3450 - 4720	84.00
835.115	1500 - 1900	4710 - 5980	94.00
835.116	1900 - 2300	5960 - 7230	113.00
835.117	2300 - 2700	7220 - 8500	133.00
835.118	2700 - 3100	8480 - 9760	162.00
835.119	3100 - 3500	9730 - 11010	201.00

Stainless steel

Item No.	Diameter mm	Circumference mm	Price EUR
835.101	20 - 300	60 - 950	65.00
835.102	300 - 700	940 - 2200	74.00
835.103	700 - 1100	2190 - 3460	83.00
835.104	1100 - 1500	3450 - 4720	94.00
835.105	1500 - 1900	4710 - 5980	105.00
835.106	1900 - 2300	5960 - 7230	145.00
835.107	2300 - 2700	7220 - 8500	158.00
835.108	2700 - 3100	8480 - 9760	172.00
835.109	3100 - 3500	9730 - 11010	202.00

C14.205.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Schwenk circumference tapes

Highly precise circumference tapes, on which the scales have been placed by means of a laser.

- Separate graduations for circumference and diameter in mm.
- Vernier: 0.1 mm.
- Tape width: 16 mm.
- Accuracy according DIN 866.
- The black model (stainless steel) is for a better contrast.
- Available on request:
  - circumference scale in inches,
  - for larger diameters up to 7500 mm,
  - with manufacturer measuring report for one or both scales,
  - vernier 0.05 mm on diameter reading.



852.832

Item No.	Diameter mm	Circumference mm	Price EUR
Bright steel:			
852.823	20 - 300	60 - 950	69.00
852.824	300 - 700	940 - 2200	84.00
852.825	700 - 1100	2190 - 3460	102.00
852.826	1100 - 1500	3450 - 4720	126.00
852.827	1500 - 1900	4710 - 5980	152.00
852.828	1900 - 2300	5960 - 7230	170.00
852.829	2300 - 2700	7220 - 8500	278.00
852.830	2700 - 3100	8480 - 9760	299.00
852.831	3100 - 3500	9730 - 11010	353.00
Stainless steel:			
852.832	20 - 300	60 - 950	84.00
852.833	300 - 700	940 - 2200	108.00
852.834	700 - 1100	2190 - 3460	147.00
852.835	1100 - 1500	3450 - 4720	184.00
852.836	1500 - 1900	4710 - 5980	222.00
852.837	1900 - 2300	5960 - 7230	258.00
852.838	2300 - 2700	7220 - 8500	303.00
852.839	2700 - 3100	8480 - 9760	366.00
852.840	3100 - 3500	9730 - 11010	448.00
Black model:			
852.699	20 - 300	60 - 950	116.00
852.915	300 - 700	940 - 2200	142.00
852.280	700 - 1100	2190 - 3460	183.00
852.281	1100 - 1500	3450 - 4720	224.00
852.282	1500 - 1900	4710 - 5980	265.00
852.283	1900 - 2300	5960 - 7230	309.00
852.284	2300 - 2700	7220 - 8500	364.00
852.285	2700 - 3100	8480 - 9760	428.00
852.286	3100 - 3500	9730 - 11010	524.00

Schwenk circumference tapes for diameters

Circumference tapes for measuring of diameters. The graduation has been placed by means of a laser.

- Graduation for diameter in mm.
- Vernier: 0.05 mm.
- Tape width: 12 mm.
- Stainless steel construction.
- The black model (stainless steel) is for a better contrast.
- With manufacturer measuring report on request.

Item No.	Diameter/mm	Price EUR
852.820	15 - 115	103.00
852.821	100 - 230	154.00
852.822	200 - 330	162.00
852.984	300 - 620	210.00
Black model:		
852.706	15 - 115	129.00
852.788	100 - 230	184.00
852.287	200 - 330	195.00
852.288	300 - 620	245.00


852.820

C14.206.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Circumference tapes

- Separate graduations for circumference and diameter in mm.
- Vernier: 0.1 mm.
- Tape width: 13 mm.
- Stainless steel with yellow plastic coating for easy reading.
- Accuracy according EC class II.



841.468



NEW



841.663



Stainless steel with yellow plastic coating

Item No.	Diameter mm	Circumference mm	Price EUR
841.468	20 - 300	60 - 950	70.00
841.469	20 - 1200	60 - 3780	95.00
841.470	20 - 2400	60 - 7540	121.00
841.471	20 - 3600	60 - 11310	203.00

Stainless steel

Item No.	Diameter mm	Circumference mm	Price EUR
841.663	20 - 300	60 - 950	58.00
841.664	20 - 1200	60 - 3780	86.00
841.665	20 - 2400	60 - 7540	109.00
841.666	20 - 3600	60 - 11310	192.00

Circumference tapes for diameters

Circumference tapes for measuring of diameters.

- Graduation for diameter in mm.
- Vernier: 0.02 mm.
- Total tape width: 13 mm.
- Bright steel.



910.181

Item No.	Diameter mm	Price EUR
910.181	15 - 50	35.80
910.182	50 - 300	69.00
910.183	300 - 600	89.00
910.184	600 - 900	104.00
910.185	900 - 1200	117.00
910.186	1200 - 1500	126.00
910.187	1500 - 1800	145.00
910.188	1800 - 2100	151.00
910.189	2100 - 2400	163.00
910.190	2400 - 2700	177.00
910.191	2700 - 3000	187.00

Schut





910.181

C14.308.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Precision tape for circumference and diameter

Precision tape for measuring of circumference and diameters.

- Separate graduations for circumference and diameter in mm.
- Graduation: 1 mm.
- Tape width: 12.5 mm.
- Lock.
- EC class II.
- White varnished very flexible steel strip with mm graduation.

NEW





Item No.	Diameter mm	Circumference mm	Price EUR
911.183	20 - 960	60 - 3000	5.60





Schwenk length measuring tapes for plane parallel distances

Length measuring tapes for measuring plane parallel distances. The high contrast graduation has been placed by means of a laser.

- Graduation: 0.1 mm.
- Tape width: 20 mm.
- Tape thickness: 0.5 mm.
- Stainless steel construction.



852.734

NEW

Item No.	Measuring range/mm	Price EUR
852.734	60 - 950	156.00
852.735	940 - 2200	180.00
841.589	2190 - 3460	219.00
841.590	3450 - 4720	257.00
841.591	4710 - 5980	295.00
841.592	5970 - 7320	332.00

Schut

C14.309.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Precision tapes

Cost effective rubberized precision tapes.

- Yellow varnished steel strip with mm graduation.
- One-sided printed blade.
- Matt finished steel blade.
- EC class II.
- Standard EC-type hook.
- Lock.
- Standard packing of 12 pieces per carton box (except 910.060: 10 pieces).



910.057



910.060

Item No.	Length m	Tape width mm	Price EUR
Precision tapes per piece:			
910.056	2	16	2.70
910.057	3	16	3.00
910.058	5	19	4.60
910.059	8	25	8.10
910.060	10	25	10.90

Precision tapes with magnetic dual hook

Precision tapes for professional use with double-sided printed blade and double hook with magnet.

- EC class II (except 910.064).
- EC class I (only 910.064).
- Shockproof til 2 m.
- Matt finished steel blade.
- Double-sided printed blade (except 910.064).
- Blade horizontal stand-out: 19 mm: 1.7 m, 27 mm: 2.8 m.
- EC-type magnet dual hook (except 910.064).
- Lock.
- Extra lock on the bottom-side (except 910.064).
- Standard packing of 10 pieces per carton box.



910.062



910.062

Item No.	Length m	Tape width mm	Price EUR
Precision tapes per piece:			
910.061	3	19	6.60
910.062	5	27	11.50
910.063	10	27	20.10
EC class I:			
910.064	3	19	16.00

C14.311.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Long stroke precision tape

Long stroke precision tape with blade from fiberglass and with high speed retracting gear.



- Double-sided printed blade.
- Graduation: 2 mm.
- EC class II.

PRICE

Item No.	Length m	Tape width mm	Price EUR
910.065	30	15	17.90

Long stroke precision tapes

- Black plastic housing with wristlet.



775.540

- White varnished steel strip with mm graduation.
- Wind-up handle.
- EC class II.

Item No.	Length m	Tape width mm	Price EUR
775.540	10	9.5	7.50
775.541	15	9.5	9.30

Digital measuring tape

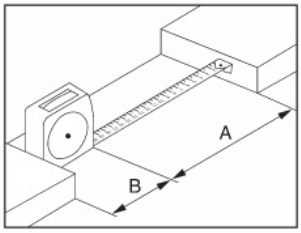
Digital measuring tape equipped with a 19 mm wide tape, which is provided with a clear graduation. The digital indication is convertible from external to internal measurements and can be reset to zero at any point on the tape.

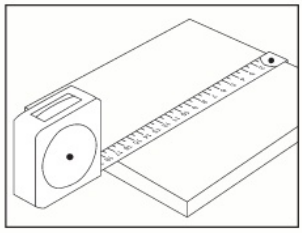




- Measuring range: 0 - 5 m.
- Resolution: 1 mm.
- mm/inch conversion.
- Hold function.
- Reversal of display value.
- Automatic stop.
- Convertible for internal/external measurements.
- Storage for 8 measuring values.
- Dimensions: 75 x 70 mm.
- Power supply: 1 battery type CR2032.

PRICE





Item No.	Length m	Tape width mm	Price EUR
909.341	5	19	49.00
Option:			
495.157	Spare battery		0.40

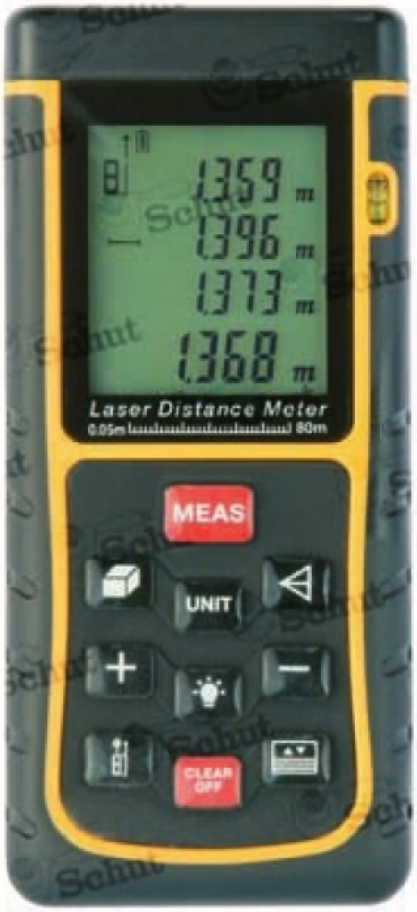
C14.312.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

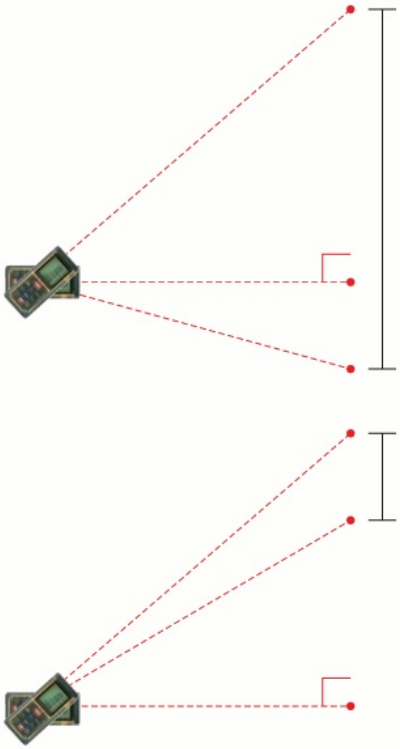
Laser distance meters

With these compact hand laser distance meters you aim a visual laser spot at the object for quick and accurate measurements of the distance without contact.

- Measuring range: 0 - 80 m.
- Resolution: 0.001 m / 0.01 m.
- Accuracy: ± 2 mm.
- Distance, surface and volume measurements, continuous measurements, addition and subtraction, min/max function and Pythagoras function.
- mm/inch/ft conversion.
- Illuminated LCD display.
- On/off switch, automatic switch-off.
- Measurement reference: front or rear.
- Storage for 99 measuring values.
- With thread for tripod: UNC 1/4"-20, thread depth: 6 mm.
- Laser: 635 nm, class II according IEC 60825-1.
- Dimensions: 120 x 55 x 30 mm.
- Weight: 909.453: 180 g, 909.454: 128 g.
- With vial.
- Delivery in a carrying bag.
- Power supply: 2 batteries type AAA.



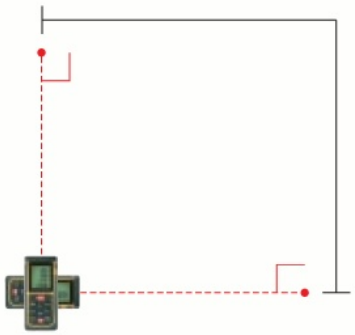
909.454



Pythagoras function



Item No.	Measuring range/m	Price EUR
909.453	0 - 40	86.00
909.454	0 - 80	119.00
Option:		
497.914	Spare battery	0.80



Surface function



C14.211.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Scribing tools / Compasses / Center squares



C15.000.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Marking gauges

- Measuring range: 0 - 400 mm.
- Vernier: 0.1 mm.
- Matt chrome-plated beam.
- Roll stop.



Item No.	Measuring range/mm	Price EUR
836.602	0 - 200	29.10
836.604	0 - 400	43.00
836.603	Spare scriber point	5.20

Marking gauges

- Measuring range: 0 - 500 mm.
- Vernier: 0.1 mm.
- With round rod and mm graduation.



907.187



907.183

Item No.	Measuring range/mm	Price EUR
Without fine adjustment:		
907.183	0 - 200	37.10
907.184	0 - 300	43.00
907.185	0 - 400	60.00
907.186	0 - 500	67.00
With fine adjustment:		
907.187	0 - 200	45.00
907.188	0 - 300	51.00
907.189	0 - 400	65.00
907.190	0 - 500	75.00
907.191	Spare scriber point (TC)	5.20

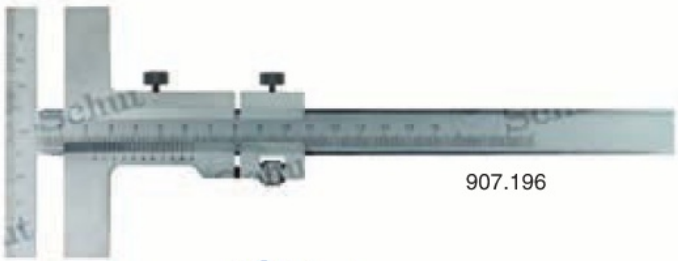
C15.201.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Marking calipers

T-shaped stainless steel marking caliper with a large marking face/cross scale. The marking face is sunk into the U-shaped base face.

- Measuring range: 0 - 300 mm.
- Locking screw.
- Vernier: 0.05 mm.
- With or without fine adjustment.
- Matt chrome-plated beam.
- Marking face/cross scale with mm graduation (50 - 0 - 50 mm).



Item No.	Measuring range/mm	Base length/mm	Price EUR
Without fine adjustment:			
907.575	0 - 160	140	78.00
907.576	0 - 250	140	98.00
907.577	0 - 300	160	113.00
With fine adjustment:			
907.196	0 - 160	140	83.00
907.197	0 - 250	140	104.00
907.198	0 - 300	160	133.00

Marking gauges

- Measuring range: 0 - 300 mm.
- Vernier: 0.1 mm.
- Matt chrome-plated beam.



Item No.	Measuring range/mm	Price EUR
907.180	0 - 200	17.20
907.181	0 - 250	20.70
907.182	0 - 300	30.80

Digital marking gauge and protractor

- Measuring range: 0 - 300 mm.
- Resolution: protractor: 0.05°, scale: 0.01 mm.
- mm/inch conversion.
- On/off switch.
- Automatic switch-off.
- Reset.
- Hold function.
- Locking screw.
- Protection: IP40.
- Power supply: 1 battery type CR2032.



Item No.	Measuring range/mm	Price EUR
906.669	0 - 300	64.00
Option:		
495.157	Spare battery	0.40

C15.271.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Scriber



Item No.	Description	Price EUR
909.388	Scriber with clip, with tungsten carbide exchangeable point and magnetic upper part	5.10
Replacement point:		
909.389	1 tungsten carbide scriber point for 909.388	2.70

Trammels

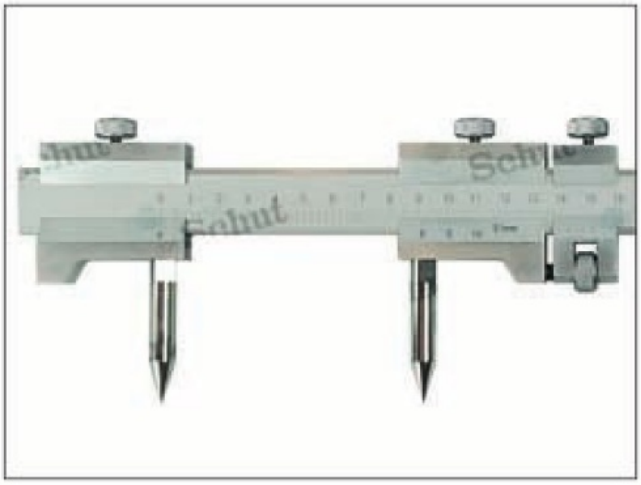
- Round rod with graduation.
- Milled key groove.
- Vernier: 0.1 mm.
- Fine adjustment.
  (Also available without fine adjustment.)



Item No.	Length/mm	Price EUR
671.275	500	223.00
671.276	1000	288.00
671.277	1500	474.00
671.278	2000	580.00
Needles per pair:		
671.234	Hardened steel	18.90
671.239	Tungsten carbide	47.00

Trammels

- Flat beam with graduation.
- Vernier: 0.1 mm.
- Fine adjustment.



Item No.	Length/mm	Price EUR
671.261	500	88.00
671.262	1000	189.00
671.263	1500	318.00
671.264	2000	327.00
Needles per pair:		
671.230	Hardened steel	10.70
671.235	Tungsten carbide	45.00

C15.204.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Spring joint dividers

- Stainless steel construction.
- With adjustment screw.
- With interchangeable points (910.012 - 018, 907.447 - 448).
- With pencil holder (907.447 - 448).


907.827


910.014


907.447

PRICE

Item No.	Description	Price EUR
907.446	Spare divider point ø 2 x 30 mm	1.30

Length/mm	Item No.	Price EUR	Item No.	Price EUR	Item No.	Price EUR
100	910.252	7.40	910.012	10.10	–	
125	910.253	6.70	910.013	11.50	–	
150	907.827	9.00	910.014	12.10	907.447	7.90
175	–		910.015	13.50	–	
200	907.828	10.90	910.016	15.20	907.448	10.60
250	907.829	13.10	910.017	17.20	–	
300	907.830	14.50	910.018	18.50	–	
400	907.831	22.80	–		–	
500	907.832	29.70	–		–	
600	907.833	39.70	–		–	

Firm joint compasses

- Stainless steel construction.
- With adjustment arch and locking screw (907.818 - 826, 909.461 - 469).
- With pencil holder (909.461 - 469).

Schut

PRICE


907.809


907.818


909.465

Length/mm	Item No.	Price EUR	Item No.	Price EUR	Item No.	Price EUR
150	907.809	8.30	907.818	9.50	909.461	10.90
200	907.810	10.40	907.819	10.90	909.462	13.80
250	907.811	11.40	907.820	12.70	909.463	16.00
300	907.812	12.50	907.821	14.40	909.464	18.20
400	907.813	24.70	907.822	27.80	909.465	24.00
500	907.814	33.90	907.823	37.00	909.466	33.80
600	907.815	43.00	907.824	46.00	909.467	41.00
800	907.816	77.00	907.825	88.00	909.468	109.00
1000	907.817	111.00	907.826	114.00	909.469	134.00

C15.302.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Internal spring joint compasses

- Stainless steel construction.
- With adjustment screw.



Item No.	Length/mm	Price EUR
907.793	100	7.50
907.794	125	8.50
907.795	150	10.70
907.796	200	11.60
907.797	250	11.90
907.798	300	13.10
907.799	400	22.80
907.800	500	29.70

External spring joint compasses

- Stainless steel construction.
- With adjustment screw.



Item No.	Length/mm	Price EUR
907.801	100	8.90
907.802	125	8.50
907.803	150	9.00
907.804	200	10.90
907.805	250	11.90
907.806	300	13.10
907.807	400	27.20
907.808	500	29.70

Firm joint compasses

- Stainless steel construction.



Item No.	Length/mm	Price EUR
907.836	100	6.20
907.837	125	6.90
907.838	150	7.20
907.839	200	7.40
907.840	250	10.40
907.841	300	11.10
907.842	400	21.60
907.843	500	24.70
907.844	600	37.00
907.845	800	65.00
907.846	1000	80.00

Firm joint compasses

- Stainless steel construction.



Item No.	Length/mm	Price EUR
907.847	100	5.80
907.848	125	6.20
907.849	150	7.20
907.850	200	7.50
907.851	250	10.40
907.852	300	11.20
907.853	400	21.70
907.854	500	24.90
907.855	600	37.40
907.856	800	65.00
907.857	1000	81.00

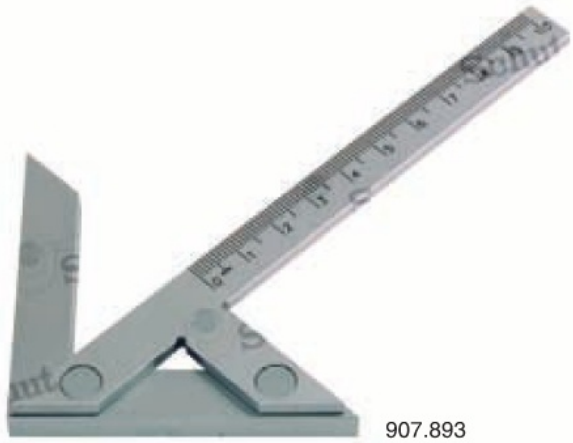
C15.301.EN.20230516

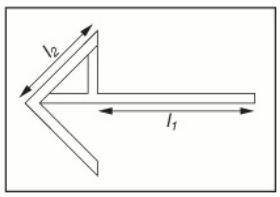
© 2023, Schut Geometrische Meettechniek bv

Center squares

Center squares with mm graduation on the blade, to mark the center on round discs or axes.

- Stainless steel construction, no-glare chrome finished.
- Graduation placed by means of a laser.


907.893



PRICE

Item No.	Length/mm l_1	l_2	Max. ø mm	Price EUR
907.893	100	70	90	36.30
907.894	150	130	190	41.00
907.895	200	150	220	47.00
907.896	250	160	230	78.00
907.897	300	180	280	97.00
909.972	400	250	380	129.00
909.973	500	330	530	185.00

Caliper compasses

- For scribing of diameters of 0 - 600 mm.
- Vernier: 0.1 mm.
- Stainless steel construction, matt chrome-plated.
- Fixed jaw and beam made out of one piece.
- Hardened, ground and lapped measuring faces.


909.425

PRICE

Item No.	For scribing up to ø/mm	Meas. range mm	Jaw length mm	Price EUR
909.424	300	150	40	52.00
909.425	400	200	40	62.00
909.426	500	250	40	75.00
909.427	600	300	40	85.00

Schut

C15.205.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Universal setting instrument

This versatile instrument is specially designed for manufacturers of very accurate products, such as gauges and toolmakers. The guide is installed under an angle of 20° and the components can be moved very accurately. The movable component has several threaded bores M4, by which the setting instrument also can be used as a scriber or height gauge.

- Max. height range incl. extensions: 270 mm.
- Dimensions: 133 x 64 x 18.5 mm.
- Delivery with extensions 25 mm and 75 mm (equipped with thread M4/thread hole M4).
- Base with vial.





906.455

Item No.	Description	Price EUR
906.455	Universal setting instrument	109.00

Surface gauge

Stable foot with V-slot at the ground surface, grips at the side and is also equipped with two bores (ø 5.5 mm).

- Foot ground all around (except for the V-slot).
- Fine adjustment.
- Dimensions:
  scriber: ø 4 x 200 mm,
  arm: ø 10 x 450 mm,
  foot: 85 x 65 x 25 mm.



Item No.	Description	Price EUR
906.220	Surface gauge	32.10

C16.201.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Height and scribing gauges / Height gauges



C16.000.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital height and scribing gauges

- Measuring range: 0 - 1000 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- ABS/INC switchable.
- On/off switch.
- Reset.
- Hold function.
- Fine adjustment.
- Delivery incl. scriber.
- Delivery in a plastic carrying case.
- Power supply:
  909.244/245/246: 1 battery type V357,
  906.267/268: 1 battery type CR2032.

From measuring range 500 mm:

- Tolerance function.
- Preset.



906.267



909.244

Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.267	0 - 200	±0.03	129.00
906.268	0 - 300	±0.04	158.00
909.244	0 - 500	±0.05	221.00
909.245	0 - 600	±0.07	256.00
909.246	0 - 1000	±0.07	482.00
Options:			
836.535	Spare battery type V357		0.80
495.157	Spare battery type CR2032		0.40
906.029	Scriber for 906.267		15.00
906.049	Scriber for 906.268		15.00
906.054	Scriber for 909.244/245		24.50
906.077	Scriber for 909.246		41.00

C16.202.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Absolute digital height and scribing gauges

Digital height and scribing gauges with an absolute measuring system. Combined with a Digimatic dial indicator quick and accurate measurements can be performed with a constant measuring force.

- Measuring range: 0 - 600 mm.
- Resolution: 0.01 mm.
- Handwheel drive for easy head displacement.
- Interchangeable scriber, intake 9 x 9 mm.
- ABS/INC switchable.
- Digimatic data output.
- On/off switch.
- Reset.
- Hold function.
- Locking screw.
- Delivery incl. scriber, dial indicator holder and Digimatic data cable for dial indicator.
- Delivery in a plastic carrying case.
- Power supply: 1 battery type CR2032.
- For suitable Digimatic dial indicators refer to the dial indicators elsewhere in this catalog.

USB interface:
- For data transfer to PC (e.g. Excel, Word).
- Operating system: Windows and other.
- PC connection: USB.
- No software or driver to install.
- Foot switch (optional).



910.096
Delivery without dial indicator.



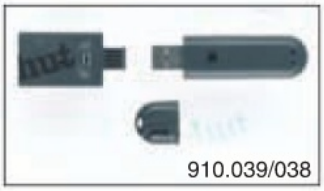
910.096



909.686



909.687



910.039/038

PRICE

Item No.	Measuring range/mm	Accuracy mm	Price EUR
910.096	0 - 300	0.03	302.00
910.097	0 - 600	0.05	435.00
With Bluetooth:			
910.098	0 - 300	0.03	323.00
Options:			
495.157	Spare battery		0.40
909.686*	USB interface		109.00
909.687	Footswitch for USB interface		18.50
910.038	Wireless USB receiver		50.00
910.039	Wireless transmitter		50.00
906.256	Scriber		34.60

* Standard configured for PC with English (US) keyboard. Also available on request for alternative keyboards.

C16.315.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital height and scribing gauges with dial indicator holder

Solid and stable instruments with integrated dial indicator holder and stainless measuring table.

- Measuring range: 0 - 500 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- ABS/INC switchable.
- On/off switch.
- Preset.
- Reset.
- Hold function.
- Tolerance function.
- Fine adjustment.
- Intake scriber: 8 x 6 mm.
- Delivery incl. scriber.
- Dial gauge clamping shaft 8 mm.
- Measuring table: 906.115/116: 80 x 80 mm, 906.117: 110 x 100 mm.
- Power supply: 1 battery type V357.

Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.115	0 - 200	±0.04	236.00
906.116	0 - 300	±0.04	295.00
906.117	0 - 500	±0.06	431.00
Options:			
836.535	Spare battery		0.80
906.343	Scriber		28.40





Digital double columns height and scribing gauges

This is a very stable digital height gauge because of its twin guide system. The measuring unit moves over two independent columns with high precision toothed racks, which generates an accurate measurement.

- Measuring range: 0 - 600 mm.
- Resolution: 0.01 mm.
- Repeatability: 0.01 mm.
- Handwheel drive for easy head displacement.
- mm/inch conversion.
- ABS/INC switchable.
- On/off switch.
- Reset/preset.
- Intake scriber: 9 x 9 mm.
- Delivery incl. scriber.
- Power supply: 1 battery type V357.

Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.263	0 - 300	±0.04	361.00
906.264	0 - 450	±0.05	414.00
906.265	0 - 600	±0.05	537.00
Option:			
836.535	Spare battery		0.80
906.118	Scriber 9 x 9 mm		19.80



C16.317.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo digital height and scribing gauges

Ergonomically designed height gauge with data output and a useful hand wheel for both fast and fine adjustment.

- Measuring range: 0 - 1000 mm.
- Resolution: 0.005 / 0.01 mm.
- Accuracy: refer to table.
- ABS/INC switchable.
- Digimatic data output.
- On/off switch.
- Reset/preset.
- Hold function.
- Max. measuring speed: 500 mm/s.
- Reversible measuring direction.
- Fast and fine adjustment.
- Interchangeable scriber, intake 9 x 9 mm.
- Delivery incl. cover and scriber.
- Conforms to factory standard.
- Power supply: 1 battery type V357.

Data cables Digimatic, USB Input Tool Direct, U-WAVE available on request.



192.663



192.007

With a connection for a probe

Item No.	Measuring range/mm	Resolution mm	Accuracy mm	Price EUR
192.663	0 - 300	0.005 / 0.01	±0.02	1,347.00
192.664	0 - 600	0.005 / 0.01	±0.04	1,753.00
192.665	0 - 1000	0.005 / 0.01	±0.06	3,007.00
Options:				
836.535	Spare battery			0.80
905.201	Scriber			163.00
105.033	Scriber holder			45.00
192.007	Electronic probe			594.00

Without connection for a probe

Item No.	Measuring range/mm	Resolution mm	Accuracy mm	Price EUR
192.613	0 - 300	0.005 / 0.01	±0.02	1,030.00
192.614	0 - 600	0.005 / 0.01	±0.05	1,414.00
192.615	0 - 1000	0.005 / 0.01	±0.07	2,671.00
Options:				
836.535	Spare battery			0.80
107.001	Scriber 9 x 9 mm			67.00
105.033	Scriber holder			45.00



192.613

C16.271.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo Absolute Digimatic height gauges

Mitutoyo Absolute Digimatic HDS digital height gauge with data output and useful hand wheel, just as easy to use as the popular 2-column height gauges. Equipped with locking lever, ideal for use as a scribing gauge. The unique Absolute measuring system prevents inaccuracy due to an incorrect zero position. Easy to link with the U-WAVE wireless communication system for fast and reliable data transfer.

- Measuring range: 0 - 600 mm.
- Resolution: 0.01 mm.
- ABS/INC switchable.
- Digimatic data output.
- On/off switch.
- Reset/preset.
- Hold function.
- Max. measuring speed: unlimited.
- Interchangeable scriber, intake 9 x 9 mm.
- Delivery incl. scriber.
- Weight: 570.402: 4.3 kg,
  570.404: 6.3 kg.
- Conforms to factory standard.
- Power supply: 1 battery type V357.



570.402

Item No.	Measuring range/mm	Accuracy mm	Price EUR
570.402	0 - 300	±0.03	764.00
570.404	0 - 600	±0.05	1,344.00
Options:			
836.535	Spare battery		0.80
107.001	Scriber 9 x 9 mm		67.00
953.638	Holder for 902.053, clamping shaft ø6 mm		23.00
902.053	Universal clamp for ø4 mm, ø8 mm, dovetail		35.00
900.872	Electrical contact indicator		132.00
900.764	Depth gauge attachment 9 x 9 mm		57.00
951.144	Center-accessory 9 x 9 mm		179.00
264.505	Mitutoyo DP-1VA SPC printer [1]		535.00
905.338	Digimatic signal cable, 1 m		36.00
102.810	U-WAVE receiver and software		363.00
102.880	U-WAVE transmitter standard		183.00
264.625	U-WAVE Bluetooth transmitter		181.00
102.795	U-WAVE data cable		96.00
106.384	USB Input Tool Direct cable, 2 m		121.00
905.338	Digimatic signal cable, 1 m		36.00

Schut

NEW

C16.316.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Height and scribing gauges with dial and counter

- Measuring range: 0 - 1000 mm.
- Graduation dial indicator: 0.01 mm.
- Resolution counter: 1 mm.
- 1 pointer revolution = 1 mm.
- Rotatable dial.
- Double counter, one indicator in plus direction and one in minus direction.
- Zero setting possible at any height.
- Intake scriber: 9 x 9 mm.
- Delivery incl. scriber.



Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.250	0 - 300	±0.04	212.00
906.251	0 - 450	±0.05	329.00
906.252	0 - 600	±0.05	429.00
906.253	0 - 800	±0.06	1,934.00
906.254	0 - 1000	±0.07	2,100.00
Option:			
906.174	Scriber 9 x 9 mm		19.80


906.250


906.253

Height and scribing gauges with dial

These height gauges are equipped with a rack, as used for dial calipers.

- Measuring range: 0 - 300 mm.
- Graduation: 0.02 mm.
- 1 pointer revolution = 2 mm.
- Rotatable dial.
- Fine adjustment.
- Delivery in a wooden case with a scriber.



Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.260	0 - 150	±0.03	72.00
906.261	0 - 200	±0.03	77.00
906.262	0 - 300	±0.04	90.00
Options:			
906.029	Scriber for 906.260/261		15.00
906.049	Scriber for 906.262		15.00



906.260

C16.204.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Height and scribing gauges

- Measuring range: 0 - 1000 mm.
- Vernier: 0.02 mm.
- Fine adjustment.
- Delivery incl. scriber.
- Matt chrome-plated scale and vernier.



906.325

PRICE

Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.325	0 - 200	±0.03	63.00
906.326	0 - 300	±0.04	69.00
906.327	0 - 500	±0.05	112.00
906.328	0 - 1000	±0.07	438.00
Options:			
906.029	Scriber for 906.325		15.00
906.049	Scriber for 906.326		15.00
906.054	Scriber for 906.327		24.50
906.748	Scriber for 906.328		24.50

Height and scribing gauges with magnifier

To minimize the possibility of reading errors these height gauges are equipped with a magnifier. The magnifier can be adjusted in height, so that it can always be positioned correctly with regard to the vernier.

- Measuring range: 0 - 500 mm.
- Vernier: 0.02 mm.
- Ruler adjustable in height.
- Fine adjustment.
- Intake scriber: 9 x 9 mm.
- Delivery incl. scriber.


906.257

PRICE

Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.255	0 - 300	±0.04	155.00
906.257	0 - 500	±0.05	204.00
Options:			
906.269	Scriber for 906.255		26.00
906.323	Scriber for 906.257		26.00

C16.205.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

TESA Micro-Hite/Micro-Hite+M 350/600/900

The TESA Micro-Hite and the TESA Micro-Hite+M (motorized) 350/600/900 are universal height gauges with air cushion for use in the measuring room as well as in the workshop for 1D as well as 2D measurements. Very suitable for accurate internal, external, height, depth and distance measurements of various measuring objects with flat, parallel or cylindrical surfaces. The measuring program in the control unit calculates all relations between the measuring features automatically. 2D measurements can be performed by rotating the work piece 90° (or other known angle) to determine for example bore coordinates, bolt hole circles or angles between circles.

These height gauges distinguish themselves from other height gauges by excellent performance and logical and easy operation using the rotatable and swivelable control unit. The control unit consists of a touchscreen and physical buttons for fast and intuitive operation. Due to the exclusive transport wheel the TESA Micro-Hite and the TESA Micro-Hite+M combine the speed of a manually operated height gauge with the precision and easy handling of a motorized one.

- Measuring range:
  350: 365 mm, 600: 615 mm, 900: 920 mm.
- Max. range with standard holder and probe:
  350: 520 mm, 600: 770 mm, 900: 1075 mm.
- Max. range with long probe holder:
  350: 745 mm, 600: 995 mm, 900: 1300 mm.
- Resolution: 0.0001 / 0.001 / 0.01 mm.
- mm/inch conversion.
- Measuring force: 1.6 ± 0.25 N.
- Squareness (frontal):
  350: 7 µm, 600: 9 µm, 900: 11 µm
  (with IG13 probe resp. 5 µm, 7 µm, 9 µm).
- SCS certificate included.
- Complete stand-alone design, without cable. Ideal for incoming goods inspection and product inspection in a production environment.
- Air cushion for easy displacement on an optional surface plate (see surface plates elsewhere in this catalog).
- High accuracy in length, straightness and perpendicularity measurements through CAA (Computer Aided Accuracy).
- Fast, easy and reliable probing of the workpiece, in particular with bore measurements, through constant measuring force.
- Optical and acoustic signal to confirm the measuring value.
- Calculations are performed automatically.
- Integrated calculator to perform calculations using measurements.
- Automatic determination of the culmination point with cylindrical surfaces.
- Processing and saving of data through the optional mounted printer, USB stick or via (wireless) TLC connection to the PC.
- Weight: 350: 33 kg, 600: 37 kg, 900: 45 kg.
- For optional probes and accessories see “Probes and accessories TESA Micro-Hite / TESA-Hite”.

TESA Micro-Hite 350/600/900

- Accuracy: $2+2L/1000$ (L in mm).
- Repeatability:
  ≤ 1 µm (flat surfaces),
  ≤ 1 µm (radius).

TESA Micro-Hite+M 350/600/900

- Accuracy: $1.8+2L/1000$ (L in mm).
- Repeatability:
  ≤ 0.5 µm (flat surfaces),
  ≤ 1 µm (radius).

Ask for the detailed brochure



783.505

C16.302.EN.20230516

TESA Micro-Hite/Micro-Hite+M 350/600/900 (continued)

Control unit

The Micro-Hite/Micro-Hite+M height gauges are equipped with a 2D control unit. This completely renewed control unit can be fully controlled using the touch screen, the physical buttons or a combination of both. Standard functions can be accessed with 1 button, making the height gauge accessible to everyone. During measurements the display shows graphical instructions to guide you through the measuring process. Measurements can be saved as a program. Data can be entered on the display for traceability purposes, for instance product or operator information. After completion of the measurements graphs and tables can be shown including go/nogo classification based on entered tolerance values. The adjustable mounting allows for optimal positioning of the control unit.

The control unit features the following interfaces: 3 x USB output, 1 x RS232 output, 1 x TLC output and can be connected to a PC using the de TLC-USB cable or the TLC-BLE transmitter (wireless). In combination with the free TESA DATA VIEWER PC software measurements can be exported directly to Excel. Using the STAT-EXPRES SPC software measurements can be saved and analysed. Measuring reports (PDF), programs and measuring results can be saved directly to a USB stick. An optional printer allows for printing of the measuring results.

Ask for the detailed brochure

Schut

Accessories for (wireless) data transfer available on request.



Item No.	Type/description	Price EUR
783.501	Micro-Hite 350	
783.502	Micro-Hite 600	
783.503	Micro-Hite 900	
783.504	Micro-Hite+M 350	
783.505	Micro-Hite+M 600	
783.506	Micro-Hite+M 900	
Options:		
783.555	TESA Link Connector Bluetooth	
783.509	USB printer for Micro-Hite	
783.524	Paper for USB printer (4 rolls)	

Basic instrument		Micro-Hite/Micro-Hite+M 350	600	900
Measuring range	mm	365	615	920
Max. range with standard holder and probe	mm	520	770	1075
Max. range with long probe holder	mm	745	995	1300
Max. deviation of perpendicularity mech. (frontal)	µm	<7	<9	<11
Max. deviation of perpen- with IG13 probe	µm	<5	<7	<9

Basic instruments

The Micro-Hite/Micro-Hite+M height gauges are standard supplied with:
- Micro-Hite(+M) panel with adjustable holder,
- standard probe holder 6 mm (783.511),
- standard probe with carbide ball tip ø5 mm (782.215),
- reference standard 12.7 mm,
- electric air cushion,
- Li-ion battery,
- AC adapter (783.570) incl. power cable (782.202),
- SCS calibration certificate.

C16.303.EN.20230516

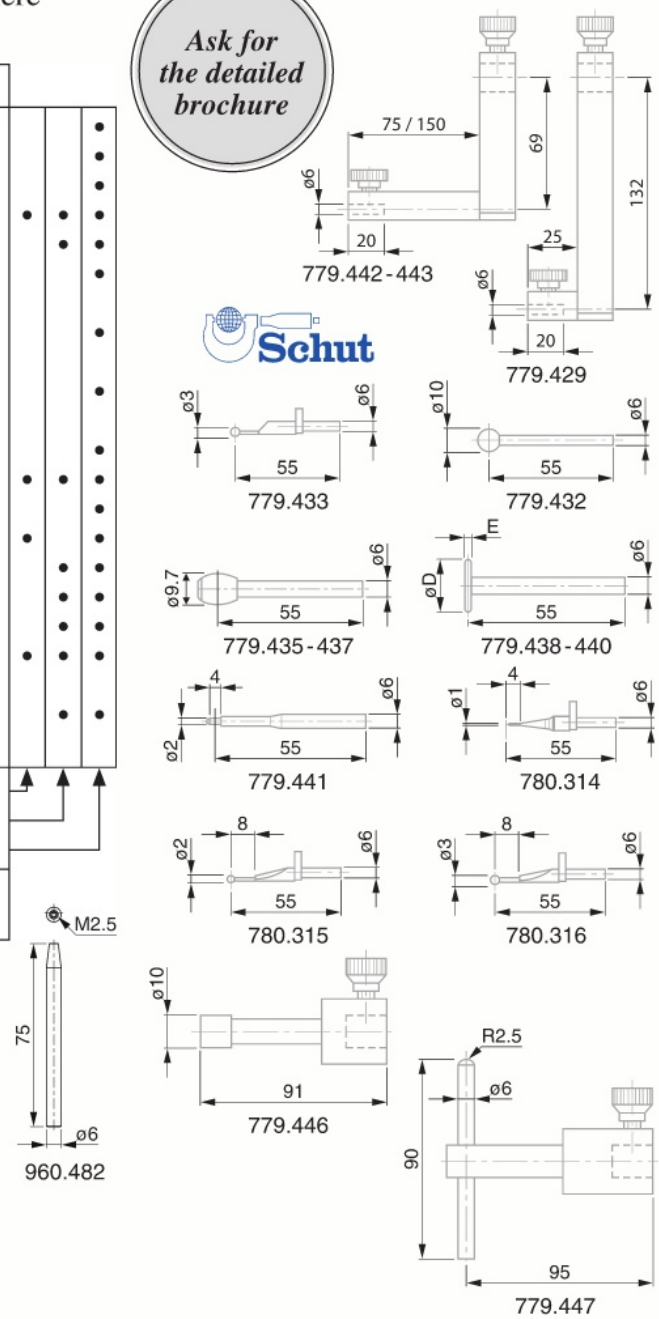
© 2023, Schut Geometrische Meettechniek bv

Probes and accessories TESA Micro-Hite / TESA-Hite

Besides the probes and accessories shown below there are various other types available.

Item No.	Type/description	Price EUR
779.442	Probe holder *l* = 75 mm	
779.443	Probe holder *l* = 150 mm	
779.429	Probe holder *l* = 25 mm	
779.433	TC ball probe ø 3 mm	
779.432	TC ball probe ø 10 mm	
779.435	Barrel-shaped probe ø 2.2 mm for thread M3 - M16	
779.436	Barrel-shaped probe ø 4.5 mm for thread M6 - M48	
779.437	Barrel-shaped probe ø 9.7 mm for thread M12 - M150	
779.438	Disc probe E = 1 mm, D = 4.5 mm	
779.439	Disc probe E = 2 mm, D = 14 mm	
779.440	Disc probe E = 3 mm, D = 19 mm	
779.441	Small probe, cylindrical measuring face ø 2 mm	
780.314	ø 6 mm probe, tungsten carbide, ø 1 mm	
780.315	ø 6 mm probe, tungsten carbide, ø 2 mm	
780.316	ø 6 mm probe, tungsten carbide, ø 3 mm	
779.447	Probe holder with pin with 1 spherical and 1 flat face	
779.446	Probe holder with cylindrical measuring face ø 10 mm	
783.383	Starter-set	
781.906	Partial set	
781.474	Complete set	
960.482	Adapter ø 6 *l* = 75 mm for M2.5-threaded inserts from dial indicators	

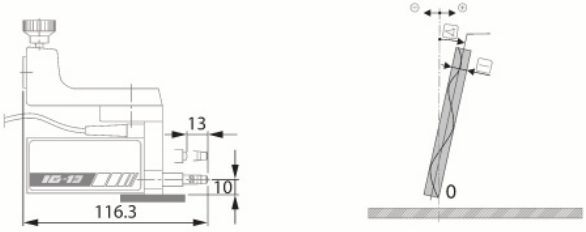
Ask for the detailed brochure



TESA electronic probe

Electronic probe with a measuring range of 13 mm, to measure perpendicularity, straightness, angle deviation, as well as parallelism in relation to the base plane and the roundness.

The probe can assume three positions: straight forward, to the right side and the left side. In these positions, fixed with a fixing piece, the correction factor of the Micro-Hite+M is incorporated automatically in the measurement.



Item No.	Type/description	Price EUR
781.590	Probe IG13 + attachment	



781.474

© 2023, Schut Geometrische Meettechniek bv

C16.214.EN.20230516

TESA-Hite Magna / TESA-Hite 400/700

The TESA-Hite height gauges have a simple and robust design and are therefore very suitable for use in a workshop to measure heights, grooves, diameters, pitch circle, center distances and parallelism using a constant measuring force.

Thanks to the robust magnetic measuring system, the TESA-Hite Magna is very suitable for use in harsh environments. The TESA-Hite is suitable for more accurate measurements due to the optical measuring system.

The clear and bright IP65 classified color screen only shows relevant data and has context-sensitive menus and built-in help for easy operation.

The height gauges are equipped with fine adjustment, locking screw and a stable cast iron base, with the TESA-Hite having a built-in air cushion for smooth movement.

Data can be sent to a PC for processing and storage using the (wireless) TESA Link Connector and the free TESA DATA VIEWER PC software.

- Measuring range: 415 and 715 mm resp.
- Max. range with standard probe holder: 570 and 870 mm resp.
- Max. range with long probe holder (782.358): 795 and 1095 mm resp.
- Easy-to-read LCD-color display.
- Process and store data on the PC using the TESA Link Connector data output.
- Measuring force: 1.5 ± 0.5 N.
- SCS certificate included.



Standard accessories

The TESA-Hite Magna / TESA-Hite 400/700 is standard supplied with:
- standard probe holder (783.511),
- TC ball probe ø5 mm (782.215),
- reference standard 6.35 mm,
- electric pump (only TESA-Hite),
- Li-ion battery,
- AC adapter (783.570) incl. power cable (782.202),
- SCS calibration certificate.

- For optional probes and accessories see “Probes and accessories TESA Micro-Hite / TESA-Hite”.

TESA-Hite Magna 400/700

Equipped with a robust magnetic measuring system.

- Resolution: 0.001 / 0.005 / 0.01 mm.
- Accuracy: ±8 µm.
- Repeatability: ≤3 µm (flat surfaces), ≤5 µm (radius).
- Weight: 783.565: 15 kg, 783.566: 18 kg.
- Protection: IP55, control panel: IP65.

TESA-Hite 400/700

Measuring with higher accuracy, also for measuring perpendicularity. Air cushion pump for easy movement on a surface plate. Squareness can be measured using optional probe, holder and display.

- Resolution: 0.0001 / 0.001 / 0.01 mm.
- Accuracy: ±(2.5 + 0.004*L*) µm (*L* in mm).
- Repeatability: ≤2 µm (flat surfaces), ≤3 µm (radius).
- Squareness (frontal): 9 and 13 µm resp.
- Weight: 783.567: 24 kg, 783.568: 30 kg.
- Protection control panel: IP65.

Item No.	Type/description	Price EUR
783.565	TESA-Hite Magna 400	
783.566	TESA-Hite Magna 700	
783.567	TESA-Hite 400	
783.568	TESA-Hite 700	
Options:		
783.301[1]	TESA Link Connector USB	
783.302[1]	TESA Link Connector Digimatic	
783.555[1]	TESA Link Connector Bluetooth	

[1] The TESA Link Connector will replace the battery cover.

C16.272.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo CNC height gauges Linear Height LH-600 F/FG

The integration of CNC technology in this height gauge enables fully automated measurements with a fixed measuring speed and measuring force. This ensures the best possible accuracy and repeatability.

The air-bearing of the base (with built-in compressor) allows almost feather-light movement on a surface plate. Equipped with the unique "semi-floating", ideal for scanning purposes, for example to find a maximum value.

These height gauges distinguish themselves from other height gauges by excellent performance and logical and easy operation using the rotatable and tiltable control unit. The control unit consists of a touchscreen and physical buttons for fast and intuitive operation. The Linear Height has 21 (measuring) functions, motorized probe movement, storage space for 50 programs and 100000 measurements which can can be statistically processed. The most occuring measurements can be done by the single press of a button.

A special and fully automated measuring program for squareness checks is included. By connecting an external Digimatic dial indicator, both squareness and position can be measured at the same time.

- Excellent accuracy and a special measuring system with a 0.1 µm resolution.
- Automatic repeat of measuring programs stored with the learning function.
- Direct display of Go/NoGo tolerance judgement after every measurement.
- Data entry from a Digimatic instrument.
- Air cushion for easy displacement on an optional surface plate (see surface plates elsewhere in this catalog).
- Complete stand-alone design, without cable. Ideal for incoming goods inspection and product inspection in a production environment.
- Clear and conveniently laid out graphical color touchscreen with numeric and alphanumeric keys.
- Internal storage for measurement values and measuring programs; optional external data storage with a USB stick or via a USB interface to a PC.
- Direct printing of measurement values on an external printer.
- Delivery with an inspection report.

Ask for the detailed brochure

NEW

Schut



518.361

LH-600 standard accessories

The Mitutoyo Linear Height is standard supplied with:

– probe holder including excentric ball probe ø5 mm,
– block for probe diameter calibration,
– rechargeable Ni-MH battery,
– control panel 1D/2D,
– AC adapter, 12V, 4A (without power cable),
– dust cover.

Item No.	Type	Price EUR
518.360	LH-600 F	
518.361	LH-600 FG	
Option:		
420.300	AC adapter cable (not supplied)	

C16.318.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo Linear Height LH-600 F/FG (continued)

Control unit

The LH-600 height gauges are equipped with a 2D control unit. This completely renewed control unit can be fully controlled using the physical buttons, touch screen, or a combination of both. Standard functions can be accessed with one button, making the height gauge accessible to everyone. During measurements the display shows graphical instructions to guide you through the measuring process. Measurements can be saved as a program. Data can be entered by using the display, for example product or operator information, for traceability purposes. After completion of the measurements graphs and tables can be shown including go/nogo classification based on entered tolerance values. The adjustable mounting allows for optimal positioning of the control unit.

The control unit features the following interfaces: 1x USB-A/B output, 1x RS232 output, 1x Digimatic-S1 port, and the standard Digimatic input. Optionally, a footswitch can also be connected. Communication and data transfer to your PC can be done both wired, and wireless. This gives you the option to save the measurement values directly into Excel. Programs and measurement results can also be saved directly to a USB drive. The separately sold printer gives you the option to print out your measurement results.

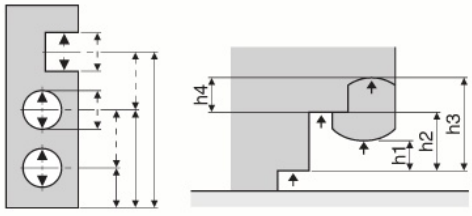
- Measuring range: 0 - 600 mm.
- Max. measuring height: 977 mm.
- Resolution: 0.0001/0.001/0.01/0.1 mm.
- Accuracy: (1.1 + 0.6*L*/600) (*L* in mm).
- Repeatability: flat 0.0004 mm, bore 0.0009 mm.
- USB/RS232C and Digimatic S2 data output.
- Max. measuring speed: 5 - 40 mm/s.
- Measuring force: 1 N.
- Squareness: 0.005 mm.
- Straightness: 0.004 mm.
- Weight: 27 kg.
- Power supply: AC adapter 230 Vac and built-in rechargeable Ni-MH battery (approx. 4 hours operating time).
- Many display languages, such as English, Dutch, German and French.



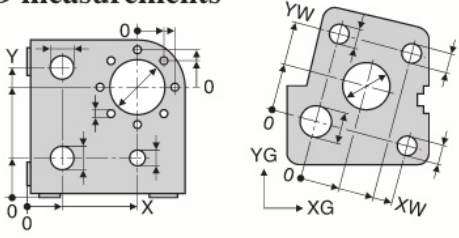
NEW



1D measurements



2D measurements



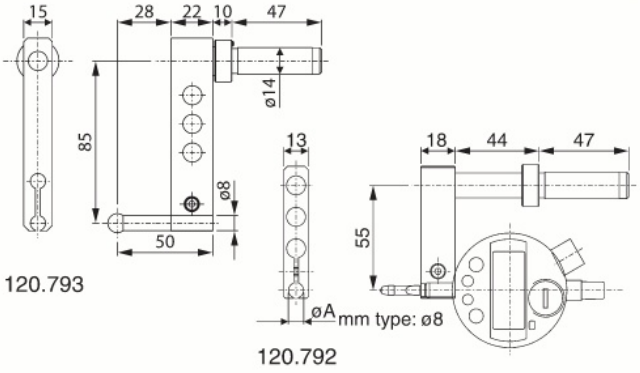
C16.319.EN.20230516

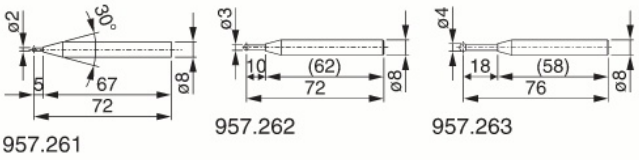
© 2023, Schut Geometrische Meettechniek bv

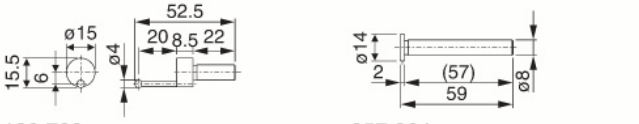
Mitutoyo LH-600 / QM-Height accessories

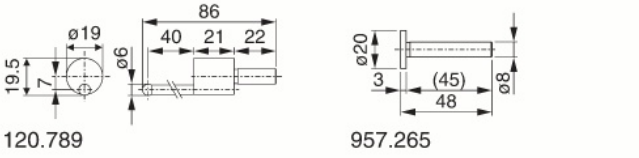
Item No.	Description	Price EUR
650.986	Probe set for LH600	
120.793	Long probe holder	
120.792	Dial indicator holder (ø8 mm)	
957.261	Ball probe ø2 mm coaxial	
957.262	Ball probe ø3 mm coaxial	
957.263	Ball probe ø4 mm coaxial	
120.788	Excentric ball probe ø4 mm	
120.789	Excentric ball probe ø6 mm	
957.264	Disc probe ø14 mm	
957.265	Disc probe ø20 mm	
120.136	Cylindrical probe ø10 mm with holder	
226.117	Shank ø8 *l* = 54 mm for Renishaw M2-threaded probes	
226.118	Shank ø8 *l* = 54 mm for Renishaw M3-threaded probes	
960.483	Adapter ø8 *l* = 100 mm for M2.5-threaded inserts from dial indicators	
120.072	Depth probe	
120.073	Conical probe ø20 mm	
120.712	Extra battery for LH-600	
106.001	USB Input Tool Direct cable 2 m	
102.011	U-WAVE-T connector cable SF for Digimatic S1 interface	
264.627	U-WAVE Bluetooth transmitter	

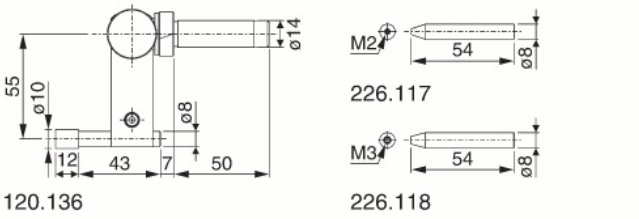


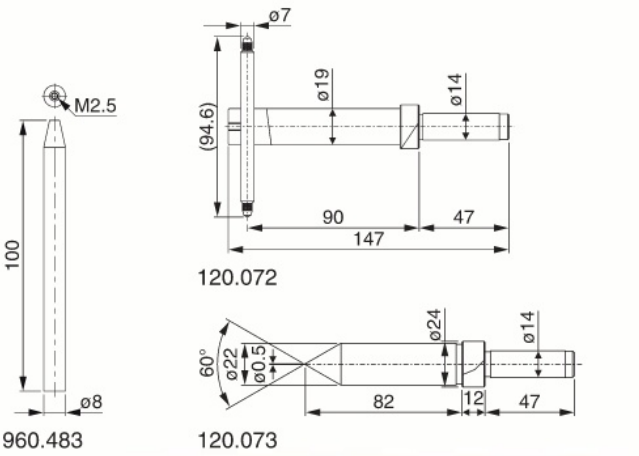












NEW



Depth probes of various demensions available on request.



C16.320.EN.20230516

Mitutoyo height gauges QM-Height 350/600

The Mitutoyo QM-Height height gauge, equipped with the highly accurate Absolute linear encoder, delivers high performance in combination with affordability. The high accuracy, repeatability and perpendicularity make the QM-Height very suitable to satisfy your most critical measurement needs. Yet the lightweight, compact design and the simplicity of the controls make this a user-friendly and flexible height gauge, suitable for use in both cleanroom and workshop. All measuring functions can be started by pressing just one button.

The QM-Height is equipped with many advanced measuring functions for measuring height, inside and outside diameters, min/max values and center distances. It is also equipped with a scanfunction, data-output, measuring memory and a Go/NoGo tolerance judgement, making human interpretation errors almost impossible. The QM-Height is available in two measuring ranges and Mitutoyo offers a wide range of accessories. See for all accessories "Mitutoyo LH-600 / QM-Height accessories".

- Measuring range: 0 - 600 mm.
- Resolution: 0.001/0.005 mm.
- Accuracy: ±(2.4 + 2.1*L*/600) µm (*L* in mm).
- Repeatability: 0.0018 mm.
- USB and Digimatic data output.
- Direct Go/NoGo tolerance judgement by LEDs after every measurement (also on display).
- An air-bearing of the base (with built-in compressor) allows almost feather-light movement on a surface plate.
- Measuring force: 1.5 ± 0.5 N.
- Operating temperature: 0 to 40°C.
- Adjustable tolerance limits.
- Weight: 518.240: 25 kg, 518.242: 29 kg, 518.244: 26 kg, 518.246: 30 kg.
- Delivery with an inspection report.
- Power supply: 4 batteries type AA or optional AC adapter.

Data cables Digimatic, USB Input Tool Direct, U-WAVE available on request.

Ask for the detailed brochure





Item No.	Measuring range/mm	Squareness µm	Price EUR
Without air bearing:			
518.240	0 - 350	7	
518.242	0 - 600	12	
With air bearing:			
518.244	0 - 350	7	
518.246	0 - 600	12	
Options:			
106.369	AC adapter		
495.111	Spare battery (4 needed)		

Standard accessories:
– auxiliary grip,
– block for probe diameter calibration,
– probe holder including excentric ball probe ø5 mm,
– 4 batteries.

C16.309.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Granite surface plate with stand for height gauges

Correct and accurate use of height gauges demand a robust and flat working table. Especially in combination with the very advanced and accurate Mitutoyo and TESA height gauges this is a necessity in order to benefit the full potential of these instruments.

In combination with the purchase of a TESA or Mitutoyo height gauge, Schut Geometrical Metrology offers granite surface plate and stand sets in various dimensions and accuracy classes for very competitive prices. Combinations that make the purchase of one of these height gauges even more attractive!

The stands are very robust and the support of the surface plate is determined on the basis of the Bessel points. All sets are available in surface plate sizes from 630 x 630 mm up to 2000 x 1000 mm, all according DIN 876, accuracy classes 1, 0 en 00.

Check our website **www.Schut.com** for the most recent promotions and prices.



131.101 +
131.113 +
131.108 +
402.028

With the purchase of a height gauge:
UNIQUE SET PRICES
Surface plate 1000 x 630 x 150 mm, class 0 including **stand**: **EUR 1,595.00**
Surface plate 1000 x 630 x 150 mm, class 0 including **stand**, **slide protection**, **cover**, **chest of drawers** and **cleaner**: **EUR 2,450.00**

Delivery ex Groningen, Netherlands

Digital protractor

Compact digital protractor to attach to a caliper or height gauge.



- Measuring range: 180°.
- Resolution: 0.01° or 1'.
- Accuracy: ±5'.
- Digimatic data output.
- On/off switch.
- Automatic switch-off (adjustable).
- Preset or hold function.
- Reset.
- Reversible measuring direction.
- Weight: 160 g.
- Delivery in a case including assembly key, mounting bracket (clamping shaft 9 x 9 mm) and clamping screw for height gauge.
- Power supply: 2 batteries type AAA.

Item No.	Description	Price EUR
855.803	Digital protractor	683.00
Options:		
497.914	Spare battery (2 needed)	0.80
905.338	Digimatic cable, 1 m	36.00
905.409	Digimatic cable, 2 m	43.00

Granite plate cleaner

Special granite plate cleaner to keep the surface of your granite surface plate clean and useable for a long period. Dust, dirt, grease stains, finger and hand prints can easily be removed. A clean and smooth surface provides low friction, less wear and the most accurate measurements. The non-corrosive property of the cleaner prevents corrosion damage to metal products.



Item No.	Description	Price EUR
407.304	Cleaner, 500 ml	7.60

C16.311.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Hardness testers / Thickness gauges / Thermometers Tachometers / Dynamometers / Inspection instruments



C18.000.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Portable Shore hardness testers

Portable hardness testers to measure Shore hardness A or D, according DIN ISO 48-4 and ISO 868.

- Measuring range: 0 - 100 Shore.
- Analog: graduation 1 Shore, digital: resolution 0.1 Shore.
- Measuring length: 2.5 mm.
- Material thickness: ≥6 mm.
- Delivery in a plastic case.

Analog

- Dial diameter: 57 mm.
- Dimensions: 110 x 58 x 30 mm.
- Weight: 230 g.


909.066

Digital

Integrated sensor and equipped with comfortable buttons. Possibility for display of current, average and maximum measuring value.

- Accuracy: ± 1 Shore.
- RS232C data output.
- On/off switch.
- Automatic switch-off.
- Max function.
- Calculation of the average of at most 9 measurements in "max mode".
- Dimensions: 161 x 65 x 28 mm.
- Delivery with a manufacturer measuring report.
- Power supply: 2 batteries type AAA.



Item No.	Type	Meas. range/Shore	Price EUR
Analog:			
907.882	Shore A	20 - 90	150.00
907.889	Shore D	20 - 90	146.00
Digital:			
909.066	Shore A	0 - 100	338.00
909.068	Shore D	0 - 100	396.00
Options:			
497.914	Spare battery (2 needed)		0.80
909.078	RS232C cable and software		100.00
909.430*	Shore A (approx. 30 - 90) 6 pieces test block set 50 x 50 x 7.5 mm		116.00
909.431*	Shore D (approx. 15 - 90) 3 pieces test block set 50 x 50 x 7.5 mm		77.00

* Delivery with a declaration of conformity.


907.882

Type	Shore A	Shore D
Max. spring force	8.065 N	44.50 N
Impact module	35°	30°
Applications	Soft rubber, elastomers, nature rubber, etc.	Hard rubber, thermoplastics, etc.


909.430


909.431

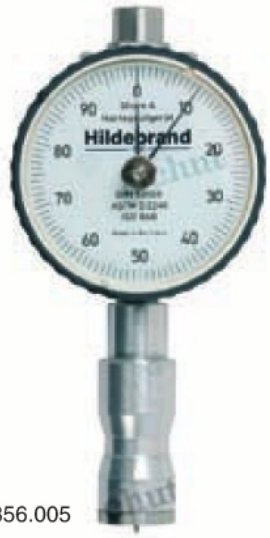
C18.313.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Hildebrand portable Shore hardness testers

Portable hardness testers to measure Shore hardness A or D, according DIN ISO 48-4 and ISO 868.

- Measuring range: 0 - 100 Shore.
- Graduation: 1 Shore.
- Accuracy: ±0.5 Shore.
- Measuring length: 2.5 mm.
- Material thickness: ≥6 mm.
- With or without extra pointer for maximum measuring value indication.
- Dial diameter: 57 mm.
- Total length: 121 mm.
- Weight: 184 g.
- Delivery in a plastic case.
- 2 year factory guarantee.



856.005

Type	Shore A	Shore D
Max. spring force	8.065 N	44.50 N
Impact module	 35°	 30°
Applications	Soft rubber, elastomers, nature rubber, etc.	Hard rubber, thermoplastics, etc.

Item No.	Type	Price EUR
856.005	Shore A	534.00
856.006	Shore D	534.00
With maximum value indication:		
856.007	Shore A	584.00
856.008	Shore D	584.00

Measuring stand for Hildebrand Shore hardness testers

To increase the accuracy and repeatability of the measurements, the use of this stand is recommended. It prevents possible errors that can occur by differences in the pressing force or when the hardness tester is not held up right.

- Max. measuring height: 180 mm.
- Measuring table: ø98 mm.
- Standard equipped with a weight (1000 g) for Shore A.
- Load weight: Shore A: 274 g, Shore D: 4000 g.
- Stable aluminum construction, table of stainless steel.
- Weight: 16.4 kg.


856.012


856.028


856.010

Item No.	Description	Price EUR
856.010	Measuring stand	1,266.00
Options:		
856.012	Weight for Shore D	168.00
856.028	Set of setting standards (20, 40, 60 and 80 Shore)	297.00

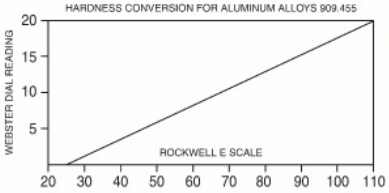
C18.301.EN.20230516

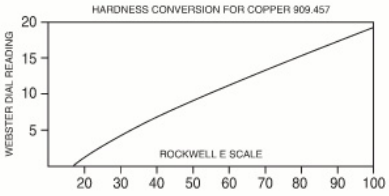
© 2023, Schut Geometrische Meettechniek bv

Portable hardness testers

For measuring the hardness of various materials like aluminum and copper. Fit for various forms like extrusion profiles, tubes and flat materials.

- Measuring range: 0 - 20 Webster. Values to convert by means of graph (Rockwell E Scale).
- Material thickness: 0.4 - 6 mm; ø > 10 mm.
- Round anvil: ø $^{3}/_{8}$".
- Delivery in a plastic carrying case with spare penetrator, screwdriver, adjusting wrench, standard test strip and manual.







909.455

Item No.	Rockwell	Material	Price EUR
909.455	E25 - E110	aluminum	941.00
909.457	E20 - E100	copper	984.00

Portable digital hardness tester

This Swiss made quality product allows one to determine HRC hardness in the most simple way. Modern technology resulted in an extremely compact and easy to use tool. No switches, buttons or cables, simply pull up the ring, measure and immediately read out the value. The measurement causes hardly any damage to the product. Especially suitable for larger objects, installed machines and use in hard-to-reach places.

- Measuring range: 20 - 70 HRC.
- Resolution: 0.1 HRC.
- Accuracy: ± 1.0 HRC.
- Automatic switch-off.
- Operating temperature: 5 to 50°C.
- Dimensions: ø 12 x 140 mm.
- Weight: 36 g.
- Delivery in a plastic case with a manufacturer measuring report.
- Power supply: 2 batteries type V394.

Requirements
- Solid base (at least 5 kg) for objects < 5 kg.
- Minimum thickness of objects: 3 mm.
- Minimum thickness of a hardened top layer, if any: 0.7 mm.
- Minimum diameter of workpiece: 10 mm.
- Minimum radius of spherical measuring surface: 30 mm.



SWISS MADE



Item No.	Description	Price EUR
774.075	Digital hardness tester	1,247.00
Option:		
420.248	Spare battery (2 needed)	1.50

C18.302.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Portable digital hardness testers

- Measuring range:
  HL 174 - 900, HB 20 - 655,
  HRC 19.6 - 68, HV 80 - 940,
  HRB 13.5 - 101.7, HS 32.5 - 99.5.
- Accuracy: ±0.5% (at HL 800).
- On/off switch, automatic switch-off.
- Min. radius of spherical surface: 30 mm.
- Tungsten carbide stylus tip.
- USB data output.
- DIN 50156 and ISO 16859.

Requirements

Impact module	Min. weight workpiece/kg [1]	[2]	Min. thickness/mm object	hardened top layer [3]	Max. roughness Ra/µm
C	0.5	1.5	1	0.2	0.4
D/DL	2	5	3	0.8	2
G	5	15	10	–	7

[1] On a solid base of at least 5 kg.
[2] Without solid base.
[3] Minimum thickness of a hardened top layer, if any.

Item No.	Description	Price EUR
909.470	Digital hardness tester	1,597.00
909.485	Digital hardness tester	1,763.00
Options:		
909.477	Set special support rings	315.00
909.478[1]	Testblock D, 2.5 kg (HLD 790±40)	176.00
909.479[1,2]	Testblock G, 5.5 kg (HLD 590±40)	353.00
Options (only for 909.470):		
495.111	Spare battery (2 needed)	0.70
909.471	Ext. impact module D	771.00
909.472	Ext. impact module G	1,432.00
909.473	Ext. impact module C	771.00
909.474	Ext. impact module DL	1,873.00
909.481	Cable for ext. impact module	121.00

[1] Delivered with a manufacturer measuring report.
[2] For use in combination with impact module G.

Selection table materials for impact module D

Material	HLD	HRC	HRB	HB	HS	HV
bright steel	300 - 900	20.0 - 68.0	38.4 - 99.5	80 - 647	32.5 - 99.5	80 - 940
tool steel	300 - 840	20.4 - 67.1				80 - 898
stainless steel	300 - 800	19.6 - 62.4	46.5 - 101.7	85 - 655		85 - 802
gray cast iron	360 - 650			93 - 334 (30D²)		
cast iron	400 - 660			131 - 387 (30D²)		
cast aluminum	174 - 560			20 - 159 (10D²)		
brass	200 - 550		13.5 - 95.3	40 - 173 (10D²)		
bronze	300 - 700			60 - 290 (10D²)		
copper	200 - 690			45 - 315 (10D²)		

- Operating temperature: -20 to 40°C.
- Delivery with a manufacturer measuring report.
- Delivery in a plastic carrying case with cable, small supporting ring, cleaning brush and test block D (909.478).

Digital hardness tester (909.470)

- Storage for 10000 measuring values.
- Dimensions basic instrument: 133 x 75 x 29 mm.
- Weight basic instrument: 260 g.
- Delivery with external impact module D (909.471).
- Power supply: 2 batteries type AA.



909.470


909.470

Digital hardness tester (909.485)

- Storage for 2000 measuring values.
- With integrated impact module D.
- OLED display.
- Dimensions basic instrument: 158 x 41 x 26 mm.
- Weight basic instrument: 120 g.
- Delivery with AC adapter/charger, software and integrated impact module D.
- Power supply: 1 rechargeable battery 3.7 V.
- AC adapter/charger.


909.485

C18.319.EN.20230516

Portable digital hardness testers (continued)

Optional impact devices (only for 909.470)

External impact module D
Standard module.

External impact module DL
With thin, long probe on the impact module for measuring in grooves, blind bores etc.

External impact module C
4x reduced impact energy for hardened components, thin-walled materials and coatings.

External impact module G
9x higher impact energy for rough casting pieces etc.

Impact devices	D	DL	C	G
Max. roughness (Ra)	2	2	0.4	7
Impacting energy (Nmm)	11	11	3	90
Mass of impact module (g)	5.5	7.8	3.0	20
Impact module length (mm)	147	250	141	254
Max. hardness of workpiece (HV) Max. hardness of workpiece (HB)	940 –	940 –	1000 –	– 650
Min. weight of sample: of compact shape (kg) on solid support (kg) coupled on plate (kg)	 5 2 0.1	 5 2 0.1	 1.5 0.5 0.02	 15 5 0.5
Min. thickness of sample: coupled (mm) min. thickness of hardened layers (mm)	 3 0.8	 3 0.8	 1 0.2	 10 –



909.471



909.472



909.473



909.474

Impact body tips (for 909.470)

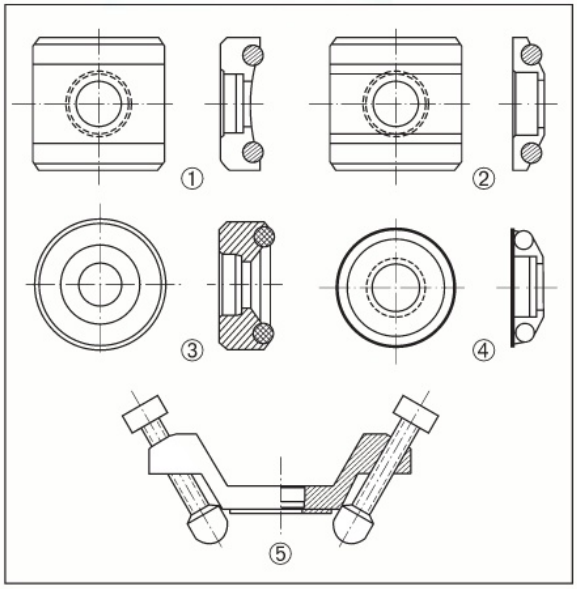
Item No.	Description	Price EUR
909.482[1]	Tip for impact body D	121.00
909.483	Tip for impact body G	242.00
909.564	Tip for impact body C	121.00
909.484	Tip for impact body DL	485.00

[1] Also for integrated impact body D 909.485.


909.477

Set special support rings
The set consists of

Type	Description
①	Cylindrical outside surface R10 - R15
①	Cylindrical outside surface R14.5 - R30
①	Cylindrical outside surface R25 - R50
②	Cylindrical inside surface R11 - R13
②	Cylindrical inside surface R12.5 - R17
②	Cylindrical inside surface R16.5 - R30
③	Spherical outside surface SR10 - SR15
③	Spherical outside surface SR14.5 - SR30
③	Spherical outside surface SR11 - SR13
④	Spherical inside surface SR12.5 - SR17
④	Spherical inside surface SR16.5 - SR30
⑤	Cylindrical outside surface, radius adjustable ≥R10



C18.320.EN.20230516

Digital thickness gauge

This thickness gauge measures in a non-destructive way the thickness and speed of sound from several materials according to the ultrasonic measuring principle (as illustrated).

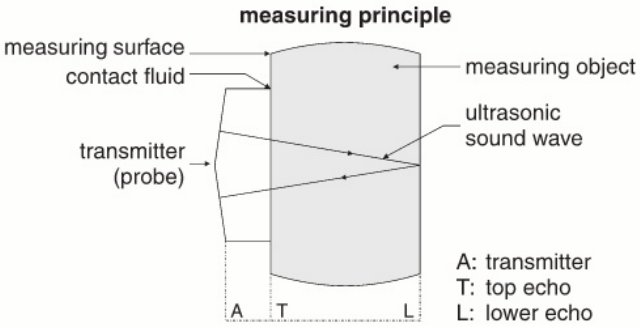
- Measuring principle: ultrasonic.
- Measuring range for steel: 1.2 - 200 mm.
- Resolution: 0.1 mm.
- Accuracy: ±(0.5%H+0.1 mm) (H = measured value).
- Measuring frequency: 5 MHz.
- Speed of sound: 1000 - 9000 m/s.
- mm/inch conversion.
- RS232C data output.
- On/off switch.
- Automatic switch-off.
- 11 presets for the speed of sound of various materials (cd01 - cd11) and one configurable speed of sound (cd12).
- Calibration standard on side of basic instrument.
- Operating temperature: 0 to 50°C.
- Admissible relative humidity: <80%.
- Dimensions: 120 x 60 x 30 mm.
- Weight basic instrument: 260 g.
- Delivery in a plastic case with a manufacturer measuring report.
- Power supply: 4 batteries type AAA.

Test block for calibration (909.398)

For the inspection and calibration of digital thickness gauges.

- Heights: 2.5 - 25 mm, incr. 2.5 mm.
- Tolerance: 0.1 mm (flatness: ±0.05 mm).
- Material: steel.





Delivery including:

– small, rectangular probe (measuring face ø 10 mm),
– contact fluid,
– manual,
– 4 batteries.

Preset code	Material
cd01	steel
cd02	cast iron
cd03	aluminum
cd04	copper (red copper)
cd05	brass
cd06	zinc
cd07	quartz glass
cd08	polyethylene
cd09	PVC
cd10	gray cast iron
cd11	nodular/ductile cast iron

Item No.	Description	Price EUR
909.139	Thickness gauge	333.00
Options:		
497.914	Spare battery (4 needed)	0.80
909.075	RS232C cable and software	100.00
909.576	Contact fluid (approx. 75 ml)	14.30
909.398	Test block for calibration	183.00

909.398



C18.307.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital thickness gauges

This thickness gauge measures in a non-destructive way the thickness and speed of sound from several materials according to the ultrasonic measuring principle. The Echo-Echo model is capable of measuring the material thickness even through coatings.

A thickness gauge with glass fiber / composite probe is available for measuring glass fiber parts. For example thicknesses of parts of cars, boats, airplanes and medical devices can be measured ultrasonically.

- Measuring range: 0.65 - 300 mm.
- Resolution: 0.1 mm or 0.01 mm.
- Accuracy (H = measured value):
  0.65 - 9.99 mm: ±0.04 mm,
  10.00 - 99.99 mm: ±(0.1%H+0.04 mm),
  100.0 - 400.0 mm: ±0.3%H.
- Measuring frequency: 5 MHz (standard probe).
- 9 preset materials (aluminum, titanium, steel, stainless steel, glass, copper, cast iron, brass and polystyrene) and one configurable speed of sound.
- mm/inch conversion.
- LCD display with backlight.
- On/off/reset switch.
- Automatic switch-off.
- Calibration standard on side of basic instrument.
- Operating temperature: -20 to 50°C.
- Dimensions: 116 x 64 x 27 mm (910.334: 133 x 75 x 29 mm).
- Weight basic instrument: 220 g (910.334: 260 g).
- Delivery in a plastic carrying case with a manufacturer measuring report and standard probe.
- Delivery including contact fluid.
- Power supply: 2 batteries type AAA (2x AA for 910.334).



C18.321.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital thickness gauges (continued)

Standard model
- Measuring range: 0.8 - 300 mm (standard probe).
- Delivery including standard probe (909.570).

Echo-Echo model

Echo-Echo mode is only available with the standard probe, 909.575.

- Measuring range:
  normal mode: 1.44 - 200 mm (standard probe),
  Echo-Echo mode: 3 - 25 mm (standard probe).
- Maximum coating thickness: 1 mm.
- Delivery including standard probe (909.575).

Models with USB output only
- Tolerance settings with alarm function.
- Memory for 5000 measurements.
- Delivery including USB cable.

Glass fiber/composite model
- Measuring range: 3 - 200 mm,
  glass fiber/composite: 5 - 40 mm (standard probe).
- Delivery including standard probe (910.335).

Item No.	Description	Price EUR
Thickness gauges:		
909.566	Without USB data output	836.00
909.567	With USB data output	973.00
Echo-Echo model:		
909.568	Without USB data output	1,385.00
909.569	With USB data output	1,522.00
Glass fiber/composite model:		
910.334	With USB data output	2,060.00
Options:		
497.914	Spare battery type AAA (2 needed)	0.80
495.111	Spare battery type AA (2 needed)	0.70
909.576	Contact fluid (approx. 75 ml)	14.30
909.398	Test block for calibration	183.00



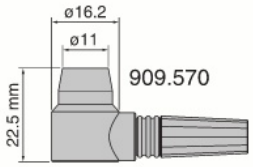
Test block for calibration (909.398)

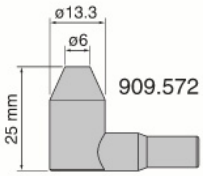
For the inspection and calibration of digital thickness gauges.
- Heights: 2.5 - 25 mm, incr. 2.5 mm.
- Tolerance: 0.1 mm (flatness: ±0.05 mm).
- Material: steel.

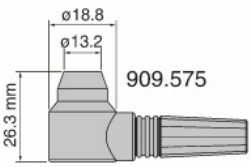


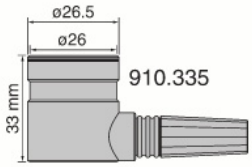
Optional probes

Item No.	Mode	Measuring range/mm	Measuring frequency MHz	Minimum tube diameter/mm	Price EUR
909.570	Normal	0.8 - 300	5	ø 20 x 1.2	168.00
909.572	Normal	0.65 - 20	10	ø 10 x 4.0	288.00
For Echo-Echo model and glass fiber/composite model:					
909.575	Normal	1.44 - 200	5	ø 25 x 3	481.00
	Echo-Echo	3.0 - 25	5		
For glass fiber/composite model only:					
910.335	Normal	3 - 200	1		458.00
	Glass fiber	5 - 40	1		









C18.325.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

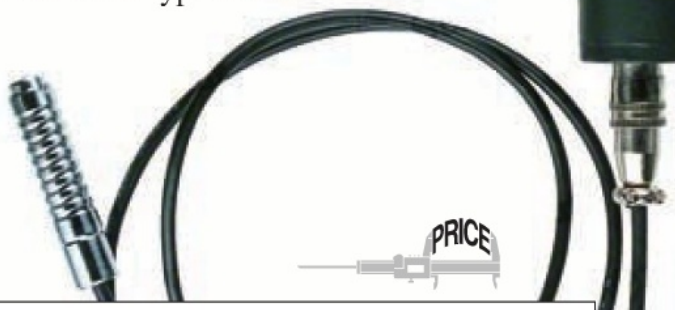
Digital coating thickness gauges

Measurements of coating thickness of paint, coating, foil etc. (non-magnetic layers) on a magnetic (ferro) and/or non-magnetic (non-ferro) metal substrate. Available with integrated or external sensor, in single or combined (automatically selecting magnetic/non-magnetic) model. Furthermore there is a one-button model, specifically designed for the automobile industry.

- Measuring principles: magnetic induction (ferro) and eddy current (non-ferro).
- Measuring range: 0 - 1250 µm.
- Resolution: 0.1 µm (<100 µm), 1 µm (≥100 µm).
- Accuracy: ±3%H or 3 µm (H = measured value).
- µm/mil conversion.
- RS232C data output.
- Automatic switch-off.
- Minimum measuring area: 6 x 6 mm.
- Minimum substrate thickness: 0.3 mm.
- Minimum object radius: ferro: 1.5 mm (convex), 25 mm (concave), non-ferro: 3 mm (convex), 50 mm (concave).
- Dimensions: 131 x 65 x 28 mm.
- Delivery in a plastic case with ferro and non-ferro base plate and reference standards.
- Power supply: 4 batteries type AAA.



909.070



909.072

Item No.	Type/description	Price EUR
With integrated sensor:		
909.060	Ferro	329.00
909.069	Non-ferro	363.00
909.070	Non-ferro and ferro	433.00
With external sensor:		
909.061	Ferro	329.00
909.071	Non-ferro	363.00
909.072	Non-ferro and ferro	439.00
One-button model:		
909.062	Non-ferro and ferro	433.00
Options:		
497.914	Spare battery (4 needed)	0.80
909.073	RS232C cable and software	100.00
906.943	External sensor ferro (906.061/072)	161.00
906.959	External sensor non-ferro (906.071/072)	161.00



909.062

C18.303.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital coating thickness gauge

Measurements of coating thickness of paint, coating, foil etc. (non-magnetic layers) on a magnetic (ferro) and non-magnetic (non-ferro) metal substrate.

- Measuring principles: magnetic induction (ferro) and eddy current (non-ferro).
- Measuring range: 0 - 1300 µm.
- Resolution: 1 µm (0 - 999 µm), 10 µm (1000 - 1300 µm).
- Accuracy: ±(3% + 2 µm).
- Statistics: number of measurements, mean, minimum, maximum and standard deviation.
- µm/mil/mm conversion.
- USB data output.
- Illuminated LED display.
- On/off switch.
- Automatic switch-off.
- Minimum measuring area: ø6 mm.
- Minimum substrate thickness: ferro: 0.5 mm, non-ferro: 0.3 mm.
- Minimum object radius: 1.5 mm (convex), 25 mm (concave).
- Maximum measuring frequency: 2 times per second.
- Adjustable tolerance limits (alarm signal on display and acoustic).
- Operating temperature: 0 to 40°C.
- Admissible relative humidity: 20 - 90%.
- Dimensions: 110 x 53 x 24 mm.
- Weight: 92 g.
- Delivery in a plastic carrying case with a manufacturer measuring report, USB cable, software, ferro and non-ferro base plate and reference standards.
- Power supply: 2 batteries type AAA.





PRICE

Item No.	Description	Price EUR
909.116	Coating thickness gauge	271.00
Option:		
497.914	Spare battery (2 needed)	0.80

C18.318.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Infrared thermometers

These hand-held infrared thermometers are extremely suitable for fast non-contact temperature measurements. Equipped with laser for easy aiming at the object. With adjustable emissivity for different surfaces. Applications: for example in the food, automotive and chemical industries, in the process technology and for research purposes.

- Measuring range: -60 to 760°C.
- Resolution: 0.1°C.
- Accuracy: ±2°C or ±2%.
- °C/°F conversion.
- Emissivity preset (standard 0.95).
- Automatic switch-off.
- Hold function.
- Min/max function.
- Operating temperature: 0 to 50°C.
- Measuring time: 1000 ms.
- Laser: 635 - 660 nm, class 2.



908.800

Models

The infrared thermometers have different optics ratios, which makes them applicable for different working distances:

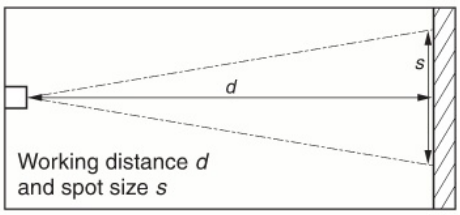
- 908.800: for measurements at small distances,
- 909.412: for measurements at large distances or with a large temperature range.



909.412

Material	*T*/°C	Emissivity
Cement	0 - 200	0.96
Cloth	93	0.90
Paper	38 - 371	0.93
Granite	21	0.45
Steel	25	0.65
Cast iron	100	0.21
Cold milled steel	93	0.75 - 0.85
Stainless steel	24	0.28
White alumina ceramics	93	0.90
Hard rubber	23	0.94
Soft rubber	24	0.86

Item No.		908.800	909.412
Price	*EUR*	*70.00*	*174.00*
Measuring range	°C	-55 to 250	-60 to 760
Working distance *d* Optics ratio *d* : *s*		small 6 : 1	large 30 : 1
Resolution	°C	0.1	0.1
Wave length	µm	5 - 14	8 - 14
Laser pointer		✓	✓
Emissivity		0.05 - 1 (incr. 0.01)	0.10 - 1 (incr. 0.01)
Emissivity preset		0.95	0.95
Illuminated LCD display		–	✓
Dimensions	mm	103 x 50 x 23	146 x 133 x 49
Weight (incl. batteries)	g	65	222
Power supply (batteries)		2x CR2032	2x AAA



Working distance *d* and spot size *s*

Spare batteries

Item No.	Type	Price EUR
495.157	CR2032	0.40
497.914	AAA	0.80

C10.301.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital thermometers

- Measuring range: -50 to 500°C (in combination with the NR-160 probe).
- Resolution: 909.145: 1°C,
  910.434: -50°C to 199.9°C: 0.1°C;
  200°C+: 1°C.
- Accuracy (H = measured value):
  909.145:
  -50 to -20°C: ±4°C,
  -20 to 0°C: ±3°C,
  0 to 500°C: ±(1+0.0075 H)°C
  910.434:
  -50 to 199.9°C: ±(0.3% H+1°C),
  200 to 500 °C: ±(0.3% H+2°C).
- °C/°F conversion (only 910.434).
- On/off switch.
- Hold function.
- Cable length standard TP01 probe: 1 m.
- Delivery incl. TP01 probe (909.076).
- Weight (incl. battery): 909.145: approx. 150 g, 910.434: approx. 190 g.
- Power supply: 1 battery type PP3 (9 V).



909.145



910.434


910.432


910.433

NEW

PRICE

Item No.	Measuring range/°C	Price EUR
909.145	-50 to 500	35.60
910.434	-50 to 500	57.00
Option:		
495.161	Spare battery	2.50


909.077: measuring pin ø3 mm, length 76 mm, with insulating grip.

Item No.	Type	Measuring range/°C	Applications	Material probe	Price EUR
909.076	TP01	-50 to 200	air	steel	6.60
909.077	TP02	-50 to 400	air, steam, liquids, gels	stainless steel	7.40
910.432	TP04	-50 to 400	surfaces (curved model)	steel	33.30
910.433	NR-160	-50 to 500	surfaces (straight model)	steel	33.30

Digital thermometer

- Measuring range: -40 to 200°C.
- Resolution: 0.1°C.
- Accuracy:
  0 to 100°C: ±1°C,
  100 to 200°C: ±2°C.
- Stainless steel measuring pin.
- °C/°F conversion.
- On/off switch.
- Power supply: 1 battery type V357.



PRICE

Item No.	Measuring range/°C	Price EUR
909.421	-40 to 200	9.40
Option:		
836.535	Spare battery	0.80

C10.302.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital thermohygrograph for permanent monitoring

The new technology for permanent 24 hours registering and checking the temperature and humidity in the area and measuring rooms. Typical metrology room temperature is 20 ± 0.05°C, with a resolution of 0.1°C for registering the temperature.

- Measuring range: -10 to 60°C, 0 - 100%RH (with no condensation).
- Resolution: 0.01°C, 0.1%RH.
- Accuracy temperature: ±(0.1 + |*T*-20|/250)°C (*T* in °C).
- Accuracy relative humidity: 4%RH.
- °C/°F conversion.
- Min/max/P-P function.
- Stand-alone: memory for 500 000 measurements (interval: adjustable).
- Data-logger with Bluetooth, SD card and USB connection for data analysis (initial settings via PC).
- Including software for Windows (7 or later) and app for Android and iOS.
- Audiovisual alarms: temperature: 2 upper und 2 lower limits, humidity: 4 limits, temperature change: 2 limits.
- Graphs: on e-paper display or PC.
- Including wall support and desk stand.
- Dimensions: 75 x 110 x 30 mm.
- Delivery in a plastic carrying case with a manufacturer measuring report.
- Power supply: 2 batteries type AA or USB (adapter not supplied).



Schut


MicroSD card


USB


Bluetooth


App

Item No.	Description	Price EUR
837.800	Thermohygrograph	1,456.00
Option:		
495.111	Spare battery (2 needed)	0.70

C18.324.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital thermohygrometer

- Measuring range: -10 to 50°C, 5 - 98%RH (with no condensation).
- Resolution: 0.1°C, 0.1%RH.
- Accuracy temperature: ±1°C.
- Accuracy relative humidity at 25°C: ≤30%RH: ±5%RH, >30%RH: ±3%RH.
- °C/°F conversion.
- Measuring frequency: 2.5 times per second.
- Illuminated LCD display.
- On/off switch.
- Automatic switch-off.
- Hold and min/max functions.
- Dimensions: 151 x 83 x 26.5 mm.
- Weight: 251 g.
- Delivery in a plastic case.
- Power supply: 1 battery type PP3 (9 V).



Item No.	Measuring range/°C	Measuring range/%RH	Price EUR
909.130	-10 to 50	5 - 98	114.00
Option:			
495.161	Spare battery		2.50

Digital thermal imager

With this thermal imager one can easily measure and display (2.8" LCD color display) the thermal image and temperature.

- Measuring range: -20 to 250°C.
- Field of view: 40 x 40°.
- Accuracy: ±2°C or ±2%.
- Thermal sensitivity: 0.1°C.
- Thermal image resolution: 32 x 31 px.
- Emissivity preset: 0.95, selectable 0.10 - 1.00 per 0.01.
- USB data output.
- On/off switch.
- Automatic switch-off.
- Adjustable tolerance limits.
- Backlight with 3 selectable levels of brightness.
- °C/°F/°K conversion.
- 4 selectable color palettes.
- Alarm for adjustable upper und lower limit of the temperature.
- Frame rate: 9 Hz.
- Spectral range: 8 - 14 µm.
- Time stamp for images.
- Storage for 25000 images.
- Memory card: micro SDHC 8 GB, including adapter for SD card reader.
- Dimensions: 95 x 75 x 233 mm.
- Weight (incl. batteries): 390 g.
- Protection: IP54. (When using data output: IP40.)
- Delivery in a plastic carrying case with USB cable and software.
- Power supply: 4 batteries type AA.



Item No.	Description	Price EUR
909.429	Thermal imager	429.00
Option:		
495.111	Spare battery (4 needed)	0.70

C18.306.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital tachometers – contact, laser, laser/contact

With these digital laser tachometers very accurate non-contact and/or contact measurements can be done easily.

- Measuring range contact: 0.5 - 19 999 rpm, 0.05 - 1999.9 m/min.
  Measuring range laser: 2.5 - 99 999 rpm.
- Resolution:
  < 1000 rpm: 0.1 rpm,
  ≥ 1000 rpm: 1 rpm,
  < 100 m/min: 0.01 m/min,
  ≥ 100 m/min: 0.1 m/min.
- Range: 5 - 50 cm (laser).
- Accuracy: ± (0.05% + 1 digit).
- Laser/contact switchable (909.146).
- Automatic switch-off.
- Functions: max., min. and last measured value.
- Dimensions and weight:
  909.148: 174 x 72 x 38 mm, 240 g,
  909.152: 182 x 70 x 34 mm, 170 g,
  909.146: 198 x 70 x 34 mm, 225 g.
- Laser class 2 according IEC825-1 and EN60825-1.
- Delivery in a soft case (909.146) or a plastic case (909.148 and 909.152).
- Power supply:
  909.148: 3 batteries type AA,
  909.152: 3 batteries type AAA,
  909.146: 3 batteries type AAA.



909.148



909.152



909.146

PRICE

Schut



909.348

Item No.	Description	Price EUR
909.148	Digital contact tachometer	65.00
909.152	Digital laser tachometer	45.00
909.146	Digital laser/contact tachometer	83.00
Options:		
497.914	Spare battery type AAA	0.80
495.111	Spare battery type AA	0.70
906.811	Reflective tape per meter (width 25 mm, for laser tachometers)	7.90
909.348	Set contact points for tachometers 909.146/148	19.20

C18.308.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Tachometer

- Measuring range: 0 - 10 000 rpm and 0 - 1000 m/min.
- Graduation: 0.002 x the measuring range.
- Includes attachments.



855.850

Item No.	Measuring range rpm	m/min	Price EUR
855.850	0 - 10000	0 - 1000	270.00
Options:			
855.853	Conical tip		6.50
855.855	Concave tip		6.50
855.856	Wheel		12.90

Torquemeters

- Measuring range: 0.2 - 20 Ncm.
- Intended for static measurements.
- Includes 6 attachments for 2 to 7 mm shafts for the small models, and 3 to 8 mm shafts for the large models.





857.740

Item No.	Measuring range/Ncm	Graduation Ncm	Price EUR
Small model:			
857.734	0.2 - 3	0.2	556.00
857.736	0.4 - 6	0.5	556.00
857.738	1 - 12	1	556.00
Large model:			
857.740	2 - 20	0.5	691.00

Strain gauges

Handy strain gauges suitable for measurements in two directions.

- Measuring range: 0.015 - 100 N.
- Indication accuracy: ±2% of the entire scale.
- With peak pointer.



Small model



857.724

Large model

Item No.	Measuring range/N	Graduation N	Price EUR
857.702	0.015 - 0.15	0.005	197.00
857.703	0.03 - 0.3	0.01	197.00
857.704	0.05 - 0.5	0.01	197.00
857.705	0.1 - 1	0.02	197.00
857.706	0.15 - 1.5	0.05	218.00

Item No.	Measuring range/N	Graduation N	Length mm	Price EUR
857.721	0.25 - 2.5	0.05	153.5	338.00
857.722	1 - 5	0.1	153.5	338.00
857.725	3 - 30	0.5	153.5	497.00
857.726	4 - 40	1	153.5	497.00
857.727	5 - 50	1	127.5	540.00
857.728	10 - 100	2	127.5	586.00

C17.205.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Strain gauges

Handy measuring instruments suitable for measurements in two directions. Used to check the measuring force of dial indicators, lever type indicators, CMM probes etc. Small model with flat touch surface has a ø 1 mm bore. Large model with curved touch surface of ø 3.5 mm.

- Measuring range: 0.01 - 20 N or 1 - 2000 g.
- Indication accuracy: ±2% of the entire scale except 910.143 and 910.149: ±2.5%.
- With peak pointer.
- Metal housing.
- Delivery in a plastic case.



910.138



910.149

PRICE

Newton model

Item No.	Measuring range/N	Graduation N	Price EUR
Small model:			
910.138	0.01 - 0.05	0.001	63.00
910.139	0.025 - 0.15	0.005	63.00
910.140	0.1 - 0.5	0.01	63.00
910.141	0.25 - 1.5	0.05	63.00
910.142	1 - 5	0.1	63.00
Large model:			
910.143	4 - 20	0.5	126.00

PRICE

Gram model

Item No.	Measuring range/g	Graduation g	Price EUR
Small model:			
910.144	1 - 5	0.1	63.00
910.145	2.5 - 15	0.5	63.00
910.146	10 - 50	1	63.00
910.147	25 - 150	5	63.00
910.148	100 - 500	10	63.00
Large model:			
910.149	500 - 2000	50	126.00

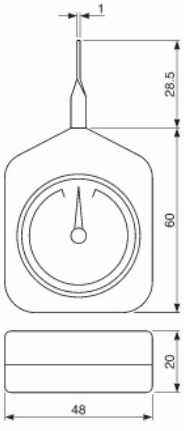
Strain gauges

Handy measuring instruments suitable for measurements in two directions. Used to check the measuring force of dial indicators, lever type indicators, CMM probes etc. The flat touch surface has a ø 1 mm bore.

- Measuring range: 2 - 500 gram.
- Indication accuracy: ±4% of the entire scale.
- With peak pointer.
- Delivery in a plastic case.

PRICE

Item No.	Measuring range/g	Graduation g	Price EUR
909.391	2 - 10	0.5	37.70
909.392	5 - 30	1	37.70
909.393	10 - 50	2	37.70
909.394	20 - 100	5	37.70
909.395	25 - 150	5	37.70
909.396	50 - 300	10	37.70
909.397	100 - 500	20	37.70





909.395

C18.323.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital spring scale

- Measuring range: 0 - 50 kg.
- Resolution:
  0.005 kg (measuring range 0 - 10 kg),
  0.01 kg (measuring range 10 - 50 kg).
- Kg/lbs conversion.
- Illuminated LCD display.
- Automatic switch-off.
- Reset.
- Automatic hold function.
- Dimensions: 110 x 65 x 30 mm.
- Weight: 170 g.
- Power supply: 2 batteries type AAA.



Item No.	Measuring range/kg	Price EUR
910.359	0 - 50	27.80
Option:		
497.914	Spare battery (2 needed)	0.80

Dynamometers

Robust dynamometers in analog and digital model with several set-up pieces.

- Measuring range: 0 - 500 N.
- Push and pull.
- Max/peak function.

Analog

- Accuracy: ± 1%.
- Graduation: N and kg.
- With 4 tapped holes M3 (for mounting).
- Dimensions: 225 x 60 x 51 mm.
- Weight: approx. 600 g.



909.174



909.182

Digital

- Accuracy: ± 0.2%.
- Kg/lb/N conversion.
- On/off switch.
- Automatic switch-off.
- Reversible display value.
- With 4 tapped holes M4 (for mounting).
- Dimensions: 147 x 75 x 38 mm.
- Weight: approx. 400 g.
- Power supply: AC adapter (12 Vdc, 1 A) and rechargeable battery.

Item No.	Measuring range/N	Reading N	Price EUR
Analog:			
909.175	0 - 10	0.05	160.00
909.178	0 - 50	0.2	160.00
909.180	0 - 200	1	160.00
909.182	0 - 500	2	160.00
Digital:			
909.168	0 - 5	0.001	580.00
909.169	0 - 10	0.01	550.00
909.171	0 - 50	0.01	374.00
909.173	0 - 200	0.1	374.00
909.174	0 - 500	0.1	374.00

C18.312.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital vibration tester

Instrument with external sensor for quick checking of unbalance, misalignment, bearings and gears. For measuring velocity, acceleration, displacement and frequency.

Measuring range

- Velocity: 0.01 - 99.99 mm/s, 100.0 - 400.0 mm/s (RMS, at frequency 10 Hz - 1 kHz).
- Acceleration: 0.1 - 400 m/s^2 (peak value, at frequency 10 Hz - 1 kHz or 10 Hz - 10 kHz).
- Displacement: 0.001 - 4.0 mm (P-P, at frequency 10 Hz - 1 kHz).
- Frequency: 0.1 - 20 kHz.

Further specifications

- Accuracy: ±5% +2 digits.
- mm/inch conversion.
- RS232C data output.
- Operating temperature: 0 to 50°C.
- Dimensions: 125 x 62 x 31 mm.
- Weight: 255 g.
- Delivery in a plastic case with a manufacturer measuring report, incl. magnet and 2 attachments.
- Power supply: 4 batteries type AAA.



PRICE

Item No.	Description	Price EUR
909.065	Vibration tester	443.00
Options:		
497.914	Spare battery (4 needed)	0.80
909.074	RS232C cable and software	100.00

Digital sound level meter

Instrument for measuring the sound level.

- Measuring range: 30 - 130 dB.
- Resolution: 0.1 dB.
- Accuracy: ±1.5 dB.
- Frequency weighting: A and C.
- Frequency range: 31.5 Hz - 8.5 kHz.
- Measuring frequency: 2 times per second.
- Time weighting: fast/slow.
- The current measured value within the range of 50 dB is displayed graphically (adjustable).
- Over range indication.
- Automatic switch-off.
- Max function.
- Dimensions: 207 x 70 x 29 mm.
- Weight: 178 g.
- Delivery in a plastic case.
- Power supply: 1 battery type PP3 (9 V).



PRICE

Item No.	Measuring range/dB	Price EUR
909.131	30 - 130	140.00
Option:		
495.161	Spare battery	2.50

C18.311.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Refractometers

Refractometers for regular checking of the correct mixing ratio of coolants. A correct ratio is very important.

- Measuring range: 0 - 32% Brix.
- Graduation: 0.1 or 0.2% Brix.
- Accuracy: ±0.2%.
- Adjustable eyepiece.
- Adjustment screw for zero setting (protected by rubber cap).
- Rubber eye adapter.
- Ergonomic design.
- Weight: 200 g.
- Delivery in a plastic case with cleaning cloth, screwdriver, pipette.



PRICE

Item No.	Meas. range % Brix	Graduation % Brix	Price EUR
909.090	0 - 10	0.1	74.00
909.079	0 - 32	0.2	80.00

Schut

Telescopic mirror/magnet

- Magnetic force: 5 N.
- Max. length (extended length): 480 mm.



PRICE

Item No.	Description	Price EUR
909.343	Telescopic mirror	7.50
909.344	Telescopic magnet lifter	7.60

Sonarscope

For tracing mechanical problems by means of sound.



PRICE

Item No.	Description	Price EUR
909.418	Sonarscope	15.00

C18.316.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Measuring instrument displays and interfaces



C20.001.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Remote Instrument Display

The Remote Instrument Display (RID) is an easy to use 2-channel display unit for connecting both RS232C and Mitutoyo instruments and display the measurement value on a large, clearly readable display. For a quick Go/NoGo indication both channels have their own 24 position LED bar with a user-defined upper and lower tolerance limit. Using the RID can simplify batch measurements significantly and makes human interpretation errors almost impossible. Also a combination of the RID with one or two scale units can be a low-cost solution for a digital read-out system on e.g. a drill press or lathe.

The RID is equipped with a Mitutoyo Digimatic and a RS232C output, so the measured values can be sent directly to a printer or PC by pressing the print button on the RID, the optional foot switch or by sending commands from the PC. Its lightweight construction, compact design and the simplicity of the controls make this RID a user-friendly and flexible accessory for your measuring instruments, suitable for use in both cleanroom and workshop.

- 2 display channels.
- 2 LED bars with 22 positions each.
- LED bar indication option: bar or individual LED.
- User defined upper and lower tolerance limit for Go/NoGo indication.
- 2 RS232C inputs.
- 2 Mitutoyo Digimatic inputs.
- RS232C data output for PC or printer.
- Mitutoyo Digimatic printer output.
- Foot switch input.
- Keyboard data output option (see Smartbox).
- Power supply: mini AC adapter (6 Vdc).






348.186


348.190


348.189

Item No.	Description	Price EUR
348.043	Remote Instrument Display	379.00
Options:		
348.286	RS232C cable 1.8 m	8.10
348.287	RS232C cable 3 m	17.40
348.288	RS232C cable 5 m	19.80
348.186	Foot switch metal Economic	44.00
348.190	Foot switch metal Herga	73.00
348.189	Foot switch metal Industrial	105.00
495.147	PS/2 keyboard cable 1.8 m	4.10

C20.301.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Smartbox

The Smartbox is an interface that connects various digital (measuring) instruments and indicators to computer programs, such as Approve, spreadsheets and databases. This will make a program-oriented software driver redundant.

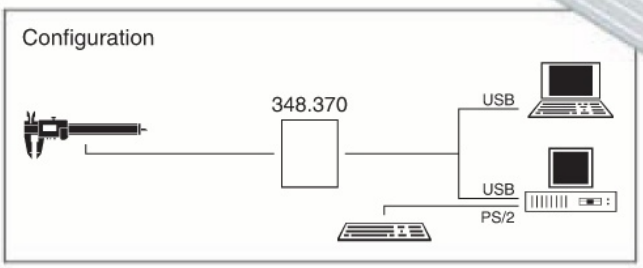
The measuring value of the connected instrument is read into standard software as spreadsheet or Approve as if it has been entered by means of the keyboard. The USB Smartbox is linked directly to a USB port (cable is included).

It is possible to connect an instrument equipped with a Mitutoyo or RS232C data output with the Smartbox, for example TESA, Magnescale, Krœplin, Helios Preisser. However, instruments need a specific data cable. See also table below.

The Smartbox is equipped with a 10p Mitutoyo compatible and an RS232C 9p (male) D-connector, and also has a program-controlled microprocessor. The DIP switches allow you to choose between the various instruments. The Smartbox is powered by your PC.

348.370





Item No.	Description	Price EUR
348.370	USB Smartbox for 1 instrument	138.00
	Options:	
348.186	Metal foot switch Economic	44.00
348.190	Metal foot switch Herga (0.25 kg)	73.00
348.189	Metal foot switch Industrial (1 kg)	105.00
	Besides all Mitutoyo Digimatic cables, the following cables are suitable for the Smartbox:	
348.109	Cable Krœplin, equipped with a 10p Mitutoyo plug (2 m)	64.00
348.122	Cable Magnescale U-serie and LT-serie / RS232C 9p (2 m)	46.00
348.142	RS232C-cable Sartorius 9p (3 m)	49.00
781.887	Opto-RS232C-cable 9p sub-D for TESA, Sylvac, Preisser etc. (2 m)	157.00
348.153	RS232C-cable Mettler 9p (female) (3 m)	46.00
348.154	Cable for Heidenhain RS232C 9p (3 m)	50.00
348.155	Cable for TESA-TT10 (2 m)	50.00
348.239	Cable LH20/LY10 RS232C 9p (female) (3 m)	54.00

C20.210.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

D/RS Instrumentbox

With the D/RS Instrumentbox, RS232C and Mitutoyo Digimatic instruments can be read into a PC, making them available online for Approve or other software. The box is equipped with four 10p Digimatic and four 9p sub-D connectors, allowing the maximum of four RS232C or eight instruments with a Digimatic output to be connected. There is also a foot switch connection. The box can be connected to a PC's COM (RS232C) or, via an optional adapter, USB port.



348.041


495.208


348.186


348.190


348.189

Item No.	Type/description	Price EUR
348.041	D/RS Instrumentbox incl. AC adapter and cable 9p (3 m) (for RS232C cables: see Smartbox)	509.00
Options:		
495.208	RS232C-USB adapter	27.90
348.163	Adapter cable Digimatic - 9p sub-D	24.20
348.186	D/RS foot switch Economic	44.00
348.190	D/RS foot switch Herga	73.00
348.189	D/RS foot switch Industrial	105.00

DiMag converter

The DiMag is an interface for direct data collection from measuring instruments with a Digimatic data output, for example Mitutoyo. The USB connection provides a RS232C interface (according Magnescale U-series dial indicators). Data can also be requested through the built-in data button or foot switch. The USB interface is powered from the data connection and emulates a COM port.

Item No.	Type/description	Price EUR
348.052	DiMag converter USB	139.00
Options:		
348.186	D/RS foot switch Economic	44.00
348.190	D/RS foot switch Herga	73.00
348.189	D/RS foot switch Industrial	105.00



C20.306.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo data processing

Mitutoyo has several options for the collection of measuring data such as printing and statistical analysis using the Digimatic SPC printer, direct data collection via a USB cable or interface modules and wireless via the U-WAVE wireless communication system.

Mitutoyo Digimatic SPC printer

The thermal SPC printer DP-1VA for fast and easy printing of the measuring values of calipers, micrometers and other measuring instruments. Suitable for statistics, calculations and reports. For measuring instruments with an RS232C output a special RS232C→Mitutoyo interface has been developed.

- Prints the measured values with statistical calculations of N, –NG, +NG, P, MAX, MIN, R, $\bar{x}$, σ_n, σ_{n-1}, Cp, Cpk, Histogram, Xd control charts, control limits, date and time in a clear and surveyable way.
- Timer for automatic input intervals.
- Capacity of 9 999 measurement data.
- Delivery with AC adapter, batteries and a roll of printing paper.
- Power supply: AC adapter (6 Vdc) or 4 batteries type AA.





Item No.	Type/description	Price EUR
264.505[1]	DP-1VA SPC printer	535.00
Options:		
495.111	Spare battery (4 needed)	0.70
348.042	RS232C→Mitutoyo interface	51.00
937.179	Foot switch	54.00
900.825	Printing paper (5 rolls)	35.00

[1] Incl. AC adapter (6 Vdc) and a roll of printing paper.

Mitutoyo Digimatic USB interface

USB interface for sending measured values from a Digimatic measuring instrument into PC applications. Send the measured values by using the data switch or the optional foot switch.

With the free to download USB ITPAK 3.0 (simplified version) it is possible to program Mitutoyo measuring instruments with an S1 connector. Using the PC it is possible to set parameters such as preset value, tolerances, and the calibration date.

Please contact us for instrument specific cables and system requirements.





Item No.	Description	Price EUR
264.020	Digimatic USB interface	253.00
106.001	USB Input Tool Direct cable 2 m	160.00
937.179	Foot switch	54.00

C20.307.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Mitutoyo U-WAVE wireless communication system

Wireless system for the transmission of Digimatic instrument measuring data to a PC for data analysis in for instance Microsoft Excel. The system consists of a transmitter and receiver with a communication distance up to 20 meter within visible range. Up to 100 transmitters can be connected to a receiver and up to 16 receivers to a PC. Measuring data can be sent from the measuring instrument or requested by the PC. A multi-channel input of measured values into e.g. Microsoft Excel is possible. With the USB-ITPAK software (full version) Excel sheets can be easily created.

The U-Wave Fit transmitter system has the advantage that the transmitter fits on the back of the instrument, resulting in better ergonomics. The U-Wave Fit fits calipers with a measuring range up to and including 300 mm, and all standard micrometers. In addition, the U-Wave transmitter system is also available in a Bluetooth version. This enables direct data transfer to a smartphone, tablet, or PC. To do this, Mitutoyo offers free (downloadable) software apps for use with Microsoft Excel. Per PC it is possible to connect up to 7 instruments, and per smartphone or tablet up to 3 instruments.







Item No.	Description	Price EUR
102.880	U-WAVE transmitter standard	183.00
102.730	U-WAVE transmitter IP67	183.00
102.810	U-WAVE receiver and software	363.00
264.620[1,5]	U-WAVE Fit transmitter IP67	183.00
264.621[1,5]	U-WAVE Fit transmitter	183.00
264.622[2,5]	U-WAVE Fit transmitter IP67	183.00
264.623[2,5]	U-WAVE Fit transmitter	183.00
264.624[1,5]	U-WAVE Bluetooth transmitter IP 67	181.00
264.625[1,5]	U-WAVE Bluetooth transmitter	181.00
264.626[2,5]	U-WAVE Bluetooth transmitter IP 67	181.00
264.627[2,5]	U-WAVE Bluetooth transmitter	181.00
Options:		
937.179	Foot switch	54.00
102.310[2,3,5]	U-WAVE Fit connector IP67	107.00
102.300[4,5]	U-WAVE Fit connector	102.00
106.543	USB-ITPAK Vers. 3.0 Full version software	333.00

[1] For calipers up to and including 300 mm.
[2] For Coolant Proof micrometers.
[3] For Coolant Proof calipers up to and including 300 mm.
[4] For standard calipers up to and including 300 mm.
[5] Connector + transmitter are needed.

Please contact us for instrument specific cables and system requirements.



C20.309.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

TESA data processing

TESA offers multiple options for the processing of measuring data from eligible digital measuring instruments and gauges. This varies from importing data through the USB port, through interface modules, or wireless using the TESA TWIN & LINK connectivity concept. For data processing, several software options can be requested. The TESA DATA-Viewer is free to download and offers the possibility for simple data acquisition in, for example, Microsoft Excel. If a more elaborate data storage is required, such as the sorting of cells within Microsoft Excel or data polling, then DATA-Direct offers the solution. With the TESA software STAT-Express it is even possible to apply extensive process analysis (SPC).

TESA Link Connector (TLC)

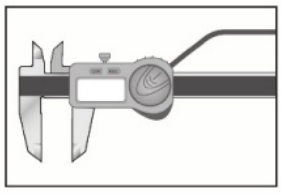
TESA Link Connector-USB/Digimatic

Every instrument with an Opto-RS232, Sub-D-RS232, or TLC output, can be connected to USB or Digimatic interface by using the TLC cable. On instruments with the TLC output, the TLC cable can be connected directly. On instruments with an Opto-RS232 or Sub-D-RS232, an adapter is available.

Item No.	Type/description	Price EUR
783.301	TESA Link Connector (TLC)	115.00
783.302	TESA Link Connector-USB/Digimatic	249.00
Options:		
783.037	DATA-Direct software for data aquisition	426.00
783.038	STAT-Express for statistical analysis	1,038.00







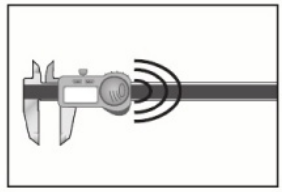


TESA Link Connector-Bluetooth

The TESA Link Connector-Bluetooth transmitter is available to send data using Bluetooth. This transmitter can be connected directly to instruments with the TLC connector. On instruments with an Opto-RS232 or Sub-D-RS232, an adapter is available. The startup set consists of a Bluetooth receiver (in case this isn't available) and one TLC-Bluetooth transmitter. On a single Bluetooth dongle, a maximum of eight instruments can be connected at the same time.

Item No.	Type/description	Price EUR
783.555	TESA Link Connector Bluetooth	50.00
783.557	USB dongle receiver for TESA TLC Bluetooth	37.00
783.556	Adapter cable Opto-TLC	174.00
783.558	Adapter cable SUB-D RS232-TLC	93.00
783.449	Footswitch for USB HID interface	153.00
783.552[1]	Startup set TESA TLC Bluetooth	88.00
Options:		
783.037	DATA-Direct software for data aquisition	426.00
783.038	STAT-Express for statistical analysis	1,038.00

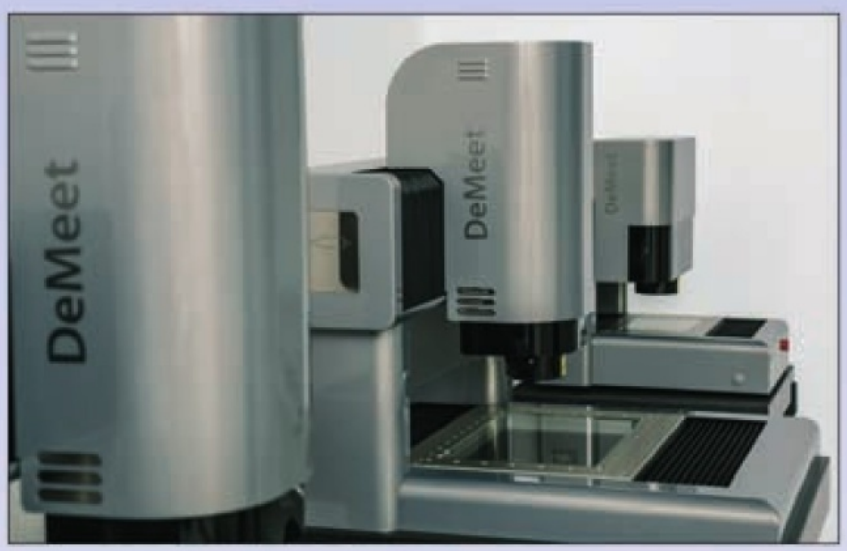
[1] Consisting of a dongle receiver with 1.5 m cable and a TLC Bluetooth transmitter.



C20.308.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

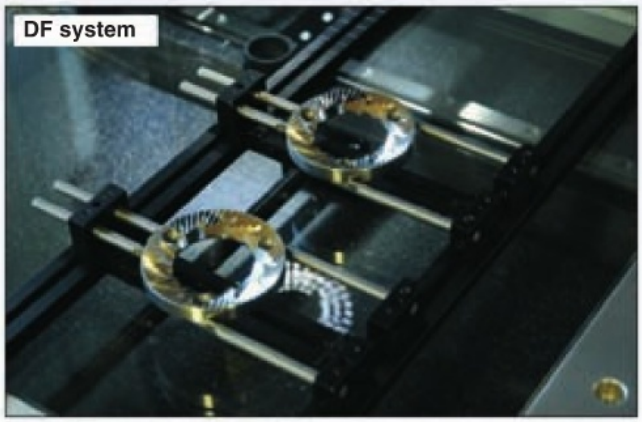
DeMeet 3D CNC coordinate measuring machines
DF fixture system / Alufix fixture system



Download the brochure from Schut.com









C23.002.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

DeMeet video and multi-sensor measuring machines



DeMeet coordinate measuring machines

The DeMeet 3D CNC coordinate measuring machines provide automatic, user-independent quality control with measuring results traceable to the international length standard. The DeMeet measuring machines are available in Video (optical) and Combo model (multi-sensor for combined video and touch probe measurements). The DeMeet multi-sensor measuring machines are an excellent all-in-one alternative to other measuring devices for example a measuring microscope, profile projector and height gauge.

With an excellent price-performance ratio the DeMeet measuring machines enable high precision quality control in measuring laboratories as well as on the production floor. Applications of optical and multi-sensor measuring are among others in the precision engineering, medical, plastics and electronics industry.

Design and quality

The application of quality components made by Schut and by well-known, specialized manufacturers ensures excellent performance and high accurate measurements.

With the new design of the DeMeet measuring machine series no concessions have been made to accuracy and reliability. The new visually screwless cover design provides a better protection in the production environment and is highlighted with nickel-plated aluminum details which can be personalized. The open design of the DeMeet allows for easy operation and loading of the machine from all sides.

The accuracy of the DeMeet measuring machines is guaranteed by a CAA 3D correction model (Computer-Aided Accuracy, error compensation).

Machine construction

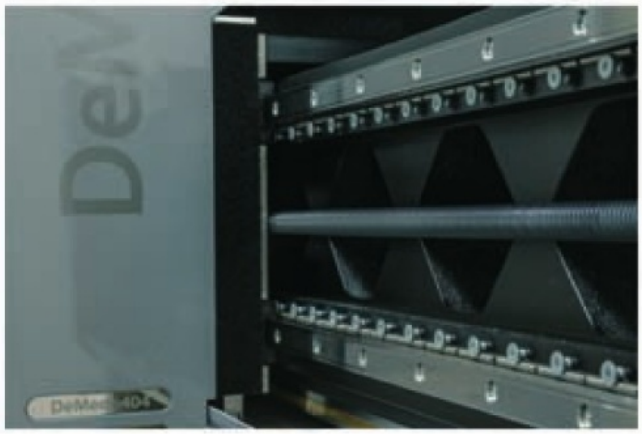
The construction is a granite base plate with accuracy grade according to DIN 876/00, placed on well positioned shock absorbing points and resting on a welded base frame (for the DeMeet-220 the base plate is flat grinded cast iron).

The XYZ base structure for the THK precision preloaded caged ball linear guides is made from extremely tension relieved, flat grinded cast iron, as the basis for a mechanical accurate construction. The axis drive system consists of Faulhaber high torque DC servo motors, TFE coated Kerk lead screws and Renishaw TONIC optical linear encoders with low sub-divisional error.

The measuring table is made of tension relieved, wear-resistant, nickel-plated steel, with a mounting hole pattern for product fixtures and a flat aligned glass plate. The video model consists of a DeMeet camera with a Sony sensor and a telecentric optical system. In addition to the optical system the Combo model is equipped with a Renishaw touch probe system.

Schut

Download the brochure from Schut.com



C23.301.EN.20230516

DeMeet video measuring machines

Optical measurements

Optical measurements are performed using the camera system, optics and adjustable illumination. Due to the non-contact nature of the measurements there is no risk of product deformation. Optical measuring is very suitable for products with fine structures and contact sensitive products.

Another advantage of optical measurements is that edge information can be defined directly with high density of measuring points. Within the field of view of the DeMeet a very high accuracy can be achieved.



Optical system

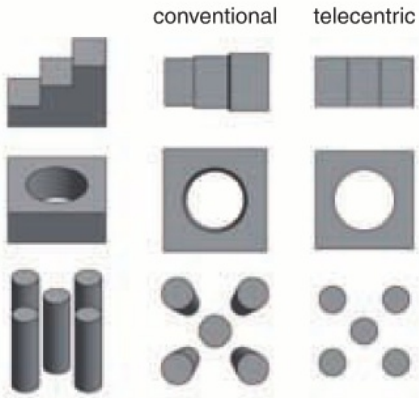
A combination of high quality telecentric optics and DeMeet Sony sensor camera is integrated for a clear image with an excellent contrast and a high resolution. In combination with the image processing functionality of the DeMeet, this results in highly accurate measurements.

Telecentric optics are supplied as a standard to avoid perspective image distortion around the center of the field of view. The DeMeet is either equipped with Nikon, Leica-Design or Mitutoyo optics with a large working distance for a brilliant image with high contrast providing optimal edge detection.

Schut



Lenses with various magnifications from 1x to 10x are available and can be exchanged during a measuring run, generating a range in display magnification from 40x to 400x.



Illumination

Illumination is essential for accurate measurements. The DeMeet is standard equipped with LED based illumination (backlight, coaxial light and segmented ring light). A ring light consisting of a 3 rings, 16 segments and 48 cells LED pattern, that can be controlled per individual ring, segment and cell, is standard supplied for optimal light configuration.

The ring light can be set in intensity and angle to achieve the best contrast with clearly defined edges. The backlight is transmitted from below and is used to highlight the profile of the edges. Coaxial lighting can be used for illumination inside deep located structures. The LED based backlight and coaxial light can be adjusted in intensity.

The configuration of the illumination is automatically controlled during a CNC measuring run. A coaxial laser pointer assists navigation during creation of a measuring program.

Download the brochure from Schut.com



C23.302.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

DeMeet multi-sensor measuring machines



Download the brochure from Schut.com

Multi-sensor measurements

The increasing miniaturization and complexity of product features results in more difficult measuring and inspection procedures. Measuring systems equipped for only optical or contact measurements are often no longer sufficient, in which case multi-sensor measuring machines are required for optimal geometrical quality control.

When measuring certain features encounters the physical limits of non-contact measurement, the DeMeet video machines can be additionally equipped with a touch probe system (contact measuring system).

With the DeMeet Combo model both optical and contact measuring principles are seamlessly integrated and measurements can be performed by the optical and the probing system within one measuring run and even within one feature. Touch probe measurements can also be useful to create a complex 3D product alignment.

Probe modules and styli

Standard a Renishaw TP20 system with a 5-way stylus configuration is supplied. On request various probe modules, systems and stylus configurations are available. Multiple probe modules can be used to leave the stylus configuration on the module to achieve a shorter set-up time for measurements requiring other stylus configurations.

In addition to the standard touch probe system, an optional stylus change rack (automatic probe configuration change) can be utilized. With the stylus change rack probe modules can automatically be exchanged within one measuring run.







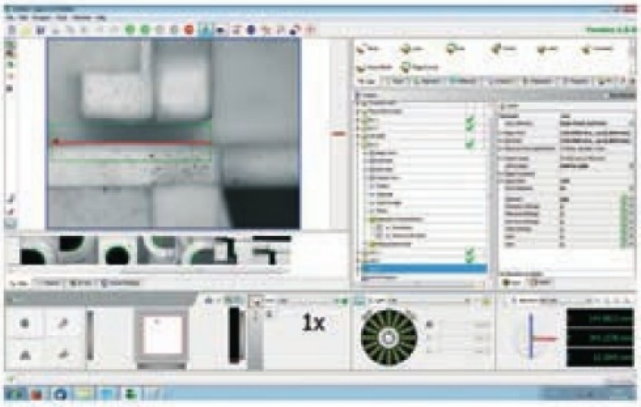
C23.303.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

DeMeet video and multi-sensor measuring machines (continued)

Approve for DeMeet multi-sensor measuring software

Approve for DeMeet is a true multi-sensor software package, where the difference in sensor origin of the measuring input is limited to only the necessary. All the measuring results of video and touch probe can be displayed, reported, exported and used in constructs together, and are dynamically updated. The measuring results can also be displayed together in a 3D view. *Approve for DeMeet* is designed to be a user-friendly software package, but is flexible and very elaborate to measure many products.



3D Movements

The 3D motor controller in *Approve for DeMeet* makes blended, smooth moves which makes the DeMeet run more fluent and faster. The DeMeet also moves during video image processing and other calculations, shortening the measuring time considerably. To eliminate hysteresis, and therefore improving accuracy, an approach direction and distance can be set for video measurements. Pretouch and average touch can be set for touch measurements.

Measurements

For video measurements our proprietary image processing algorithms were developed, which are completely different from algorithms used by competing products. The edge find algorithm finds complete curves instead of separate points, the interpolation of the pixels is virtually infinite and very accurate. Video targets larger than one field of view can be measured in one program step, and are automatically split into more images and combined for the fitted result. The illumination for video measurements can be set and changed using a graphical control for backlight, coaxial light and ring light.

For touch measurements it is normal that the targets are defined in 3D, but now this is also the case for video measurements. Features (like a circle) can be measured properly even if they are not parallel to the camera (optical) plane. The graphical touch probe configuration editor allows for building a custom configuration for a specific measurement by using an extensive touch probe library. Settings can be defined and shared between measuring steps which greatly reduces the complexity of a measuring program.



Download the brochure from Schut.com

APPROVE for DeMeet

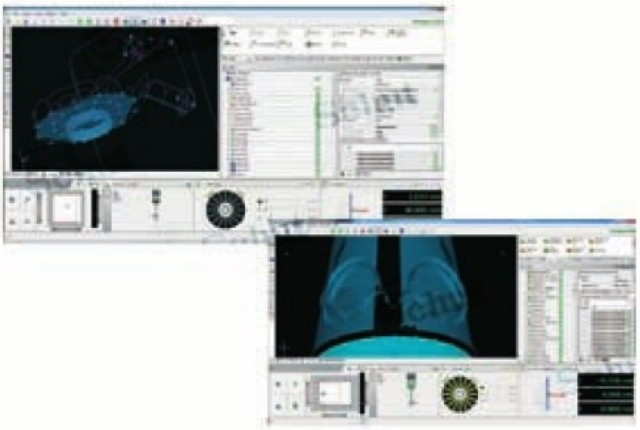
Schut

C23.306.EN.20230516

DeMeet video and multi-sensor measuring machines (continued)

Measuring Program

A measuring program in *Approve for DeMeet* is a graphical program consisting of simple program steps. Program steps can be changed, added, copied, moved and removed very easily, inputs of a program step can be easily changed or linked to other results by using drag-and-drop. A program can be verified by running it step by step, even a single program step can be run for verification. After running a program step an icon appears behind it to indicate its status.



APPROVE for DeMeet

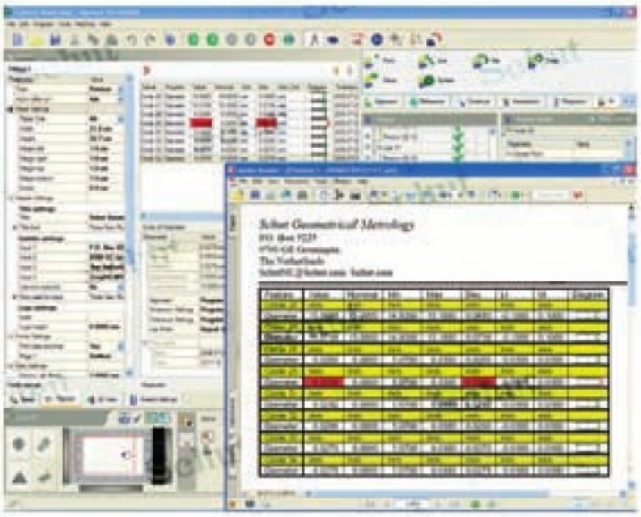
Download the brochure from Schut.com

Results, Report and Export

Results from measurements and calculations (constructs, fits, etc.) as well as from other program steps can be added to an export or report and saved or printed as PDF or CSV file for further analysis. If tolerances are used for a result a graphical tolerance bar is shown. Results and reports can be automatically printed or exported at the end of a measuring program run.

PTB software evaluation

Evaluation software for coordinate measuring machines. The accuracy of the *Approve for DeMeet* software was verified by comparing the results obtained from the software with reference results supplied by the PTB (Physikalisch-Technische Bundesanstalt, Braunschweig, Germany). The *Approve for DeMeet* software has been placed in the class of the smallest deviations.



Schut



C23.309.EN.20230516

Specifications DeMeet video and multi-sensor measuring machines

		Video model	Combo model
General			
Video system		DeMeet Sony sensor camera	
Nikon telecentric lenses		3.0x (1.0x, 5.0x and 10.0x optional)	
Leica-Design telecentric lenses		2.0x (1.0x, 5.0x and 10.0x optional)	
Mitutoyo telecentric lenses		3.0x (1.0x, 5.0x and 10.0x optional)	
Ring light [1]		3 rings, 16 segments and 48 cells (adjustable)	
Backlight and coaxial light		adjustable	
Probe system [2]		-	Renishaw TP20
Construction [3]		fixed bridge with granite base plate DIN 876/00	
Structure		extremely tension relieved, flat grinded cast iron	
Measuring table [4]		tension relieved, nickel-plated steel	
Linear guides		THK linear guides	
Linear encoders		Renishaw TONIC linear encoders	
Drive system		Faulhaber DC servo motors	
Operating mode		motorized joystick / CNC	
Measuring specifications			
Resolution	(µm)	0.1	
Accuracy standard [5]	(µm)	X/Y/Z 3.9 + L/150	
	(L in mm)	XY 4.5 + L/150	XYZ 4.9 + L/150
Accuracy high [5]	(µm)	X/Y/Z 2.9 + L/200	
	(L in mm)	XY 3.5 + L/200	XYZ 3.9 + L/200
Accuracy optional [5]	(µm)	X/Y/Z 1.9 + L/250	
	(L in mm)	XY 2.5 + L/250	XYZ 2.9 + L/250
Travel speed max.	(mm/s)	X/Y 250, Z 55	
Acceleration max.	(mm/s^2)	X/Y/Z 500	
Power requirements			
Voltage	(V)	90 - 120, 210 - 240 (50 - 60 Hz)	
Power	(VA)	400	
Environmental conditions			
Operating temperature	(°C)	15 - 35	
Measuring temperature	(°C)	20 ± 0.5	
Humidity	(%)	40 - 70 (no condensation)	

[1] For video models (except DeMeet-220) a ring light with 4 rings, 16 segments and 64 cells can be supplied as an option.
[2] Other probe systems can be supplied as an option.
[3] The base plate of the DeMeet-220 is made of flat grinded cast iron.
[4] The measuring table of the DeMeet-220 is made of tension relieved, hard anodized aluminum.
[5] The accuracy of the multi-sensor measuring system should be taken into account.

Specifications apply to all DeMeet models, unless otherwise specified.
Machines with higher specifications and/or modifications are available on request.
Specifications are subject to change without prior notice.
For more specifications refer to our website Schut.com.

Ask for the detailed brochure

Schut

C23.208.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Specifications DeMeet video and multi-sensor measuring machines



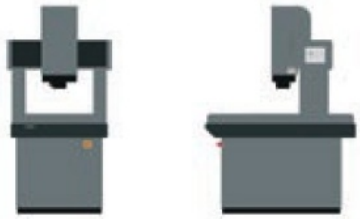
DeMeet-220		
Measuring range	(mm)	X 220, Y 150, Z 100
Dimensions	(mm)	W 520, L 700, H 615
Weight	(kg)	110
Measuring table	(mm)	X 357, Y 264
Max. load	(kg)	20



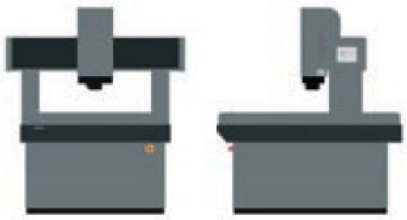
DeMeet-400		
Measuring range	(mm)	X 400, Y 250, Z 200
Dimensions	(mm)	W 870, L 930, H 1570
Weight	(kg)	530
Measuring table	(mm)	X 560, Y 426
Max. load	(kg)	50



DeMeet-404		
Measuring range	(mm)	X 400, Y 400, Z 200
Dimensions	(mm)	W 870, L 1245, H 1580
Weight	(kg)	700
Measuring table	(mm)	X 560, Y 584
Max. load	(kg)	50



DeMeet-443		
Measuring range	(mm)	X 400, Y 400, Z 300
Dimensions	(mm)	W 870, L 1245, H 1785
Weight	(kg)	720
Measuring table	(mm)	X 560, Y 584
Max. load	(kg)	50



DeMeet-705		
Measuring range	(mm)	X 700, Y 500, Z 300
Dimensions	(mm)	W 1520, L 1550, H 1820
Weight	(kg)	1400
Measuring table	(mm)	X 930, Y 704
Max. load	(kg)	60

CE

Ask for the detailed brochure

Schut

C23.307.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Field of view qualifier

Glass reference standard with a pattern consisting of wide variety of very accurate optical characteristics, produced with a coating (chrome). Very suitable for use with optical instruments as geometric accuracy standard or as a test and training object.

- Accuracy: ±0.002 mm.
- Delivery including drawing with size indication.



Item No.	Description	Price EUR
635.222	Field of view qualifier	141.00

Worktable DeMeet-220

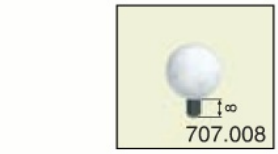
The DeMeet-220 must be placed on a stable worktable for accurate measurements. Placing can be done on a strong work table or on a granite worktable like below.

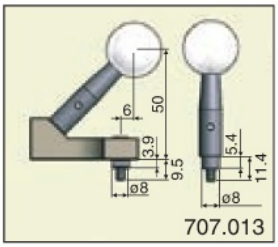


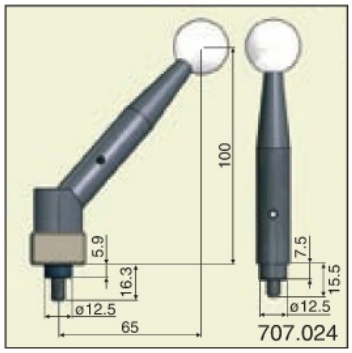
Item No.	Description	Price EUR
402.004	Granite surface plate 630 x 630 x 80 mm, DIN 876/1	778.00
131.032	Support DeMeet-220 (working height 750 - 800 mm)	399.00

Qualification spheres

- Ball: ø8 or ø25 mm, made of ceramics.
- Delivery with a manufacturer measuring report.







Item No.	Description	Price EUR
Qualification sphere ø8 mm:		
707.025[1]	For DeMeet-220	445.00
707.026[2]	For DeMeet-4xx/705	398.00
Qualification sphere ø25 mm:		
707.013[1]	For DeMeet-220	390.00
707.024[2]	For DeMeet-4xx/705	366.00
707.008[2]	Ball only; M6 external thread	277.00

[1] Thread M4.
[2] Thread M6.

Training object



Item No.	Description	Price EUR
635.200	Touch probe training object	210.00

C23.305.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Fixture systems

Solid positioning of a measuring object with a fixture system is essential for accurate measurements and the fixing pattern can also be used for batch measurements. The measuring table of the DeMeet is prepared for DF and Alufix fixture systems.

DF product fixture system

DF-System is a fixture system developed and produced by Schut and designed for constructing 3D product fixtures, particularly for optical measurements, and is fully compatible with the measuring table of the DeMeet measuring machines. The DF-system is an easy to mount measurement fixture system and especially developed to use the most of the illumination possibilities for optical measurements. Easy to mount with single-screw couplings to build fixtures with a high repeatability and to realize a short set-up time for measuring tasks.

DF-System consists of a full range of fixture components: bars, connection components and fixing components. Produced from extruded or machined aluminum with either a black or silver anodized finishing. Technically the difference is only applicable for optical measurements in relation to (un)desirable light reflection.

DF is a universal fixture system and can be mounted on any type of measuring machine. With special couplings the system is fully compatible with the measuring tables of the DeMeet video and multi-sensor coordinate measuring machines.

Item No.	Description	Price EUR
717.057	Basic set I DeMeet-220 Black	1,086.00
717.088	Basic set I DeMeet-220 Silver	1,085.00
717.095	Basic set II DeMeet-400Y Black	1,139.00
717.096	Basic set II DeMeet-400Y Silver	1,138.00
717.058	Basic set III DeMeet-400X/4xxXY Black	1,219.00
717.089	Basic set III DeMeet-400X/4xxXY Silver	1,219.00


DF system

Alufix fixture system

Alufix is a flexible fixture system made of high-tensile aluminum. Alufix is a uniquely designed modular fixture system to prepare a product-fixture in a short time and is easy to mount and specially suitable for fixtures for heavier measuring objects. A wide range of components is available that can be combined to complete your measuring fixture such as base plates, bars, chucks, rotary plates, centers, magnetic holders, v-blocks, vises and optical targets.

Besides all the separate components two basic sets are composed for the DeMeet: an Alufix 16 set for light weight products and an Alufix 25 set for larger and heavier products.

Item No.	Description	Price EUR
381.100	Basic set Alufix 16 DeMeet for DeMeet-220 and DeMeet-400 (Y-axis)	3,310.00
381.101	Basic set Alufix 25 DeMeet for DeMeet-400 (X-axis), DeMeet-404 and DeMeet-443	3,130.00
381.099	Basic set Alufix 25 DeMeet-705 for DeMeet-705	3,640.00

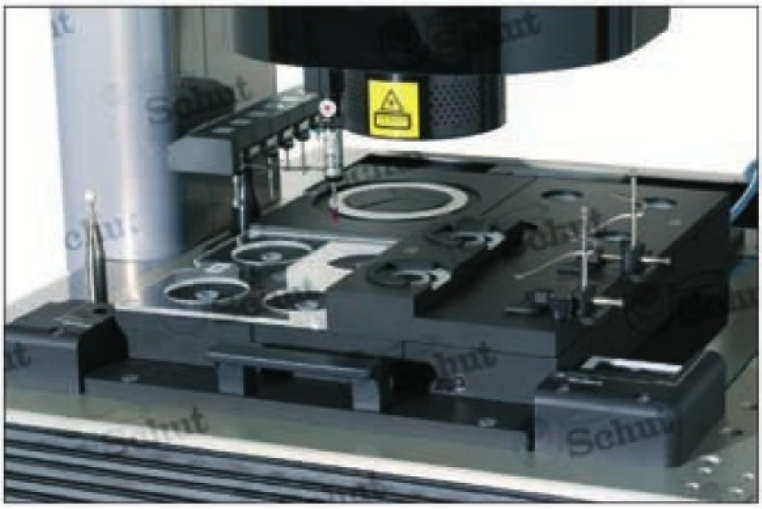


C23.304.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Custom fixture systems for the DeMeet measuring machines

When products need to be measured in a batch and a standard fixture system does not provide the right solution for example caused by the extraordinary shape or small dimensions of the product, a custom made fixture can provide the solution. This is especially the case for products that need to be measured optically.





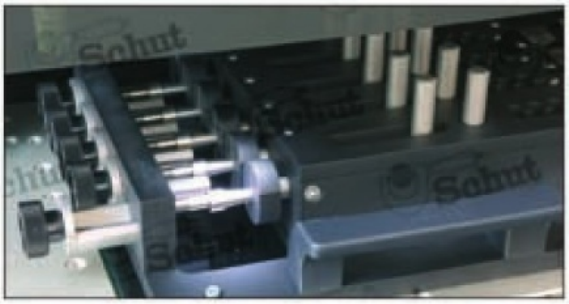




A certain repeatability of product positioning in the fixture is important for a quick set-up time in for example the production environment. We can assist you in the development and manufacturing of a custom fixture. There is a range of possibilities, from machined fixturing positions in acryl glass to magnet and vacuum fixture systems.











C23.308.EN.20230516

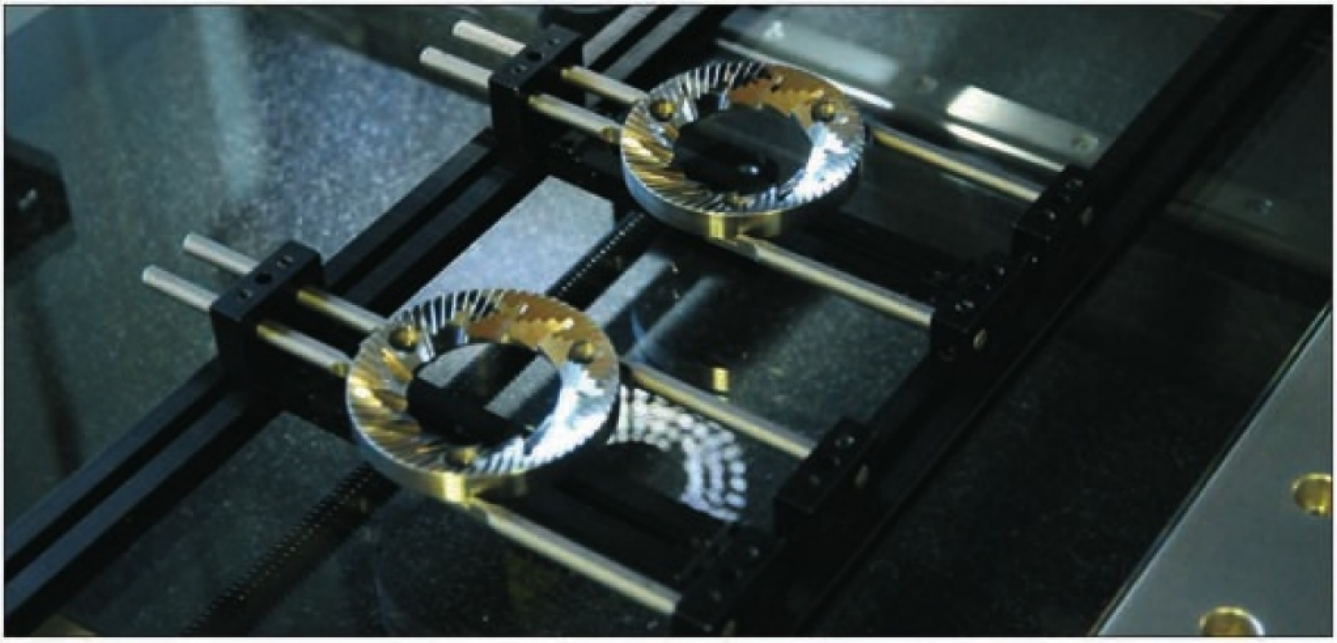
© 2023, Schut Geometrische Meettechniek bv

DF product fixture system

DF is a new fixture system developed and produced by Schut and designed for building 3D product fixtures, particularly for optical measurements.

Solid product positioning is essential for accurate measurements. DF is very easy to mount with single-screw couplings to build fixtures with a high repeatability and to realize a short lead-time for measuring jobs.

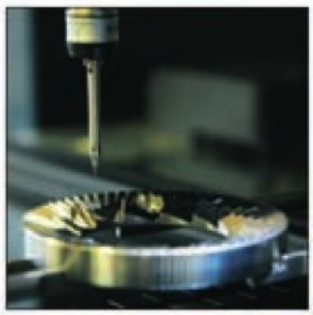
DF consists of a full range of fixture components: bars, connection components and fixing components. Produced from extruded or machined AlMgSi1 aluminum with either a black or silver anodized finishing. The black anodized version avoids light reflections. The silver components can be applied when light reflections from the fixture are required.



DF is a universal fixture system and can be mounted on any type of measuring machine. With special couplings the system is fully compatible with the measuring tables of the DeMeet video and multi-sensor coordinate measuring machines.

DeMeet







Download the brochure from Schut.com

Schut

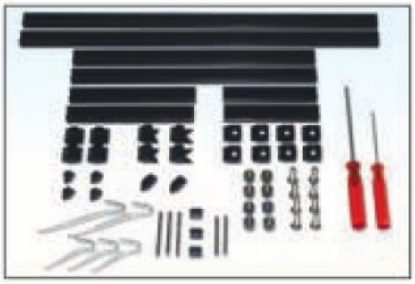
C26.301.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

DF product fixture system (continued)

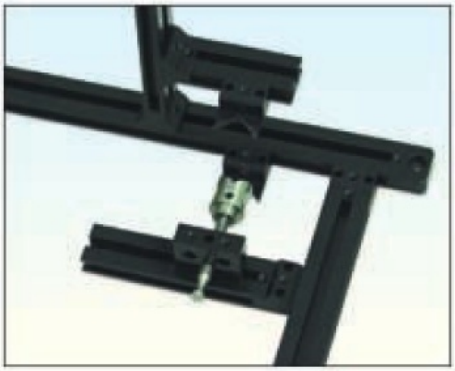
DF is available in separate components and in three basic sets, in black or silver finishing. Basic set I is composed for the DeMeet-220, basic set II for the DeMeet-400 (Y-axis) and basic set III for the DeMeet-400 (X-axis) and the DeMeet-404/443 (X- and Y-axis).

Item No.	Description	Price EUR
717.057	Basic set I DeMeet-220 Black	1,086.00
717.088	Basic set I DeMeet-220 Silver	1,085.00
717.095	Basic set II DeMeet-400Y Black	1,139.00
717.096	Basic set II DeMeet-400Y Silver	1,138.00
717.058	Basic set III DeMeet-400X/4xxXY Black	1,219.00
717.089	Basic set III DeMeet-400X/4xxXY Silver	1,219.00









Item No. black	Item No. silver	Description	Number	Basic set I	Basic set II	Basic set III
717.029	717.073	Mounting block perpendicular	8	•	•	•
717.030	717.074	One point anvil	4	•	•	•
717.031	717.075	One point anvil long	2	•	•	•
717.036	717.077	Mounting block for spring shaft	3	•	•	•
717.040	717.081	V-block 120°	2	•	•	•
717.042	717.083	V-block 90°	2	•	•	•
717.033	717.043	Mounting block side pattern 16	4	•	•	
717.028	717.072	Mounting block end pattern 16	4	•	•	
717.034	717.050	Mounting block side pattern 25	4			•
717.035	717.056	Mounting block end pattern 25	4			•
717.015	717.059	Bar 56 mm	2	•		
717.016	717.060	Bar 88 mm	2		•	
717.097	717.098	Bar 110 mm	2			•
717.017	717.061	Bar 120 mm	2	•		
717.018	717.062	Bar 160 mm	2			•
717.022	717.066	Bar 246 mm	2	•		
717.024	717.068	Bar 310 mm	2		•	•
717.026	717.070	Bar 344 mm	2		•	
717.025	717.069	Bar 460 mm	2			•
717.044		Screw and adapter pattern 16	4	•	•	
380.301		Distance tube with stop pattern 16	8	•	•	
380.304		Distance tube with stop pattern 25	8			•
993.539		Screw M4 x 20 stainless steel	8	•	•	
995.087		Screw M6 x 25 stainless steel	8			•
717.000		Shaft 60 mm for clamping spring	3	•	•	•
717.004		Shaft 50 mm for clamping spring	2	•	•	•
717.010		Clamping spring short	3	•	•	•
717.011		Clamping spring long	2	•	•	•
991.158		Hex screwdriver 2 mm	1	•	•	•
991.160		Hex screwdriver 3 mm	1	•	•	
991.161		Hex screwdriver 4 mm	1			•
717.008		Screw mounting tool	1	•	•	
851.888		Case for DF basic sets I and II	1	•	•	
851.899		Case for DF basic set III	1			•

Item No.	Description	Price EUR
991.158	Hex screwdriver 2 mm	5.90
991.160	Hex screwdriver 3 mm	7.60
991.161	Hex screwdriver 4 mm	8.70
991.276	Adjustable torque hex screwdriver 2 mm with range 0.1 - 0.6 Nm	130.00



991.276

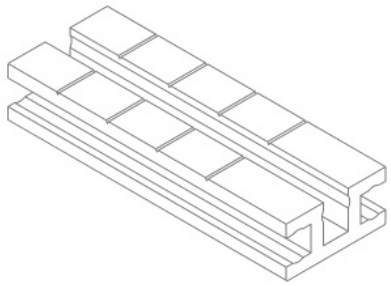
C26.302.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

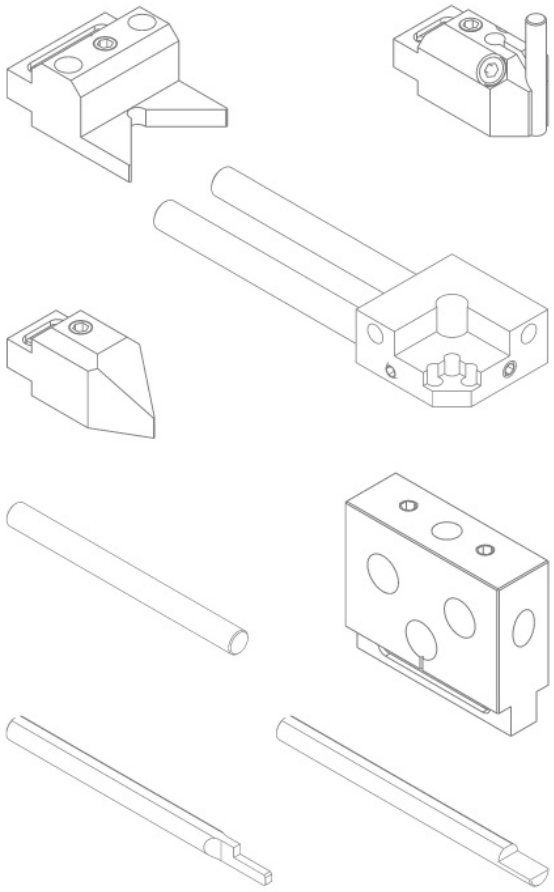
DF components

Besides the components shown below, there are various other types available.

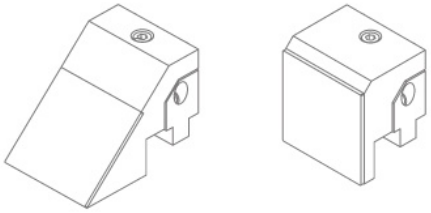
Bars



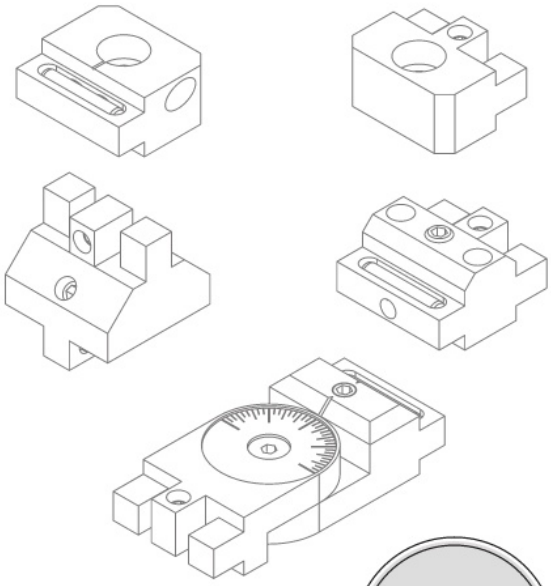
Positioning components



Mirrors

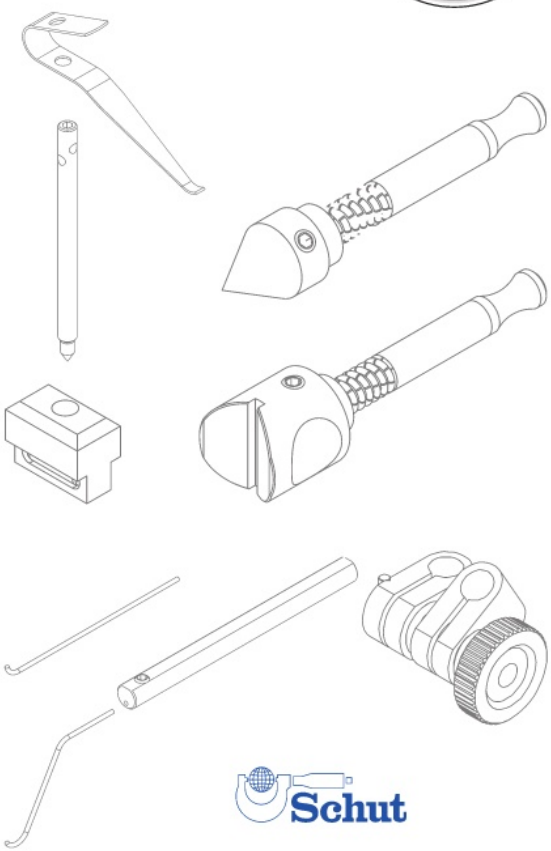


Connection components



Download the brochure from Schut.com

Fixing components



C26.308.EN.20230516

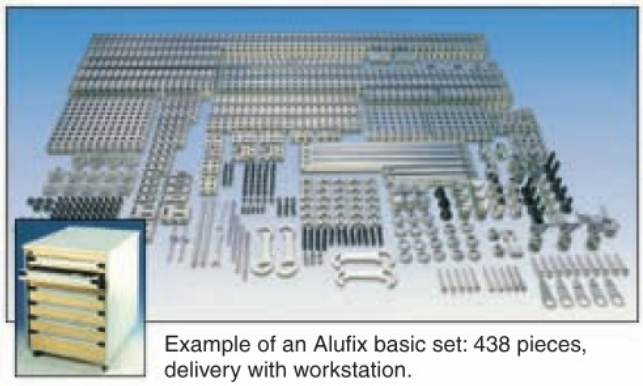
© 2023, Schut Geometrische Meettechniek bv

Alufix fixture system

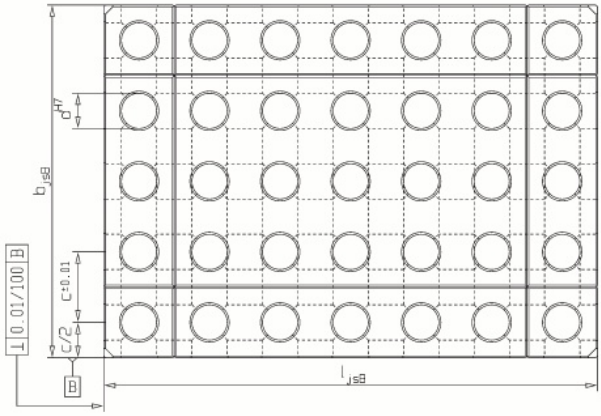
Alufix is a flexible fixture system made of high-tensile aluminum, with which, due to the high production accuracy and ease of use, fixture solutions can be created in a short time.

Applications of Alufix are for example:
- Product fixtures for coordinate measuring machines or other measuring systems such as probe/dial indicator measuring systems or height gauges.
- Product fixtures for various mounting purposes.
- Product fixtures for various production applications like welding.

The great diversity of accessories enables a fixture for almost any product. E.g. Alufix is used in aerospace, plastics and car manufacturing industries.



Example of an Alufix basic set: 438 pieces, delivery with workstation.



	Center distance c/mm	Bore diameter d/mm
Alufix 16	16	8
Alufix 25	25	12.5
Alufix 40	40	20
Alufix 50	50	25

Some advantages of the Alufix system:
- Alufix can save time and money, because the fixtures are quick and easy to assemble.
- All components are re-usable.
- Aluminum has a low weight and is corrosion free.
- High dimensional accuracy.

The basis consists of a base plate or a "quader". With different sorts of connecting elements you can fix other basic elements, clamping springs, vices, claw plates, prisms and various other Alufix elements. For many of the basic elements there is also a lighter ECO or Light version available with a favourable price-performance ratio. Components can be supplied black anodized as an option for avoiding light reflections with for example optical measurements.

Alufix is available in several base sizes. **Alufix 16** is the smallest version for fixturing small, light objects, **Alufix 25**, **Alufix 40**, **Alufix 50** and the **Fixinspect** system.

The center distances (c) of the bores are indicated by the type number, for example 25 mm for Alufix 25. The diameter (d) of the bores is half of this number, 12.5H7. The various versions can be connected with positioning sleeves.

All Alufix parts are separately available, and can be assembled to create a product specific fixture. There are also sets of a more general composition.



Fixtures for height gauges can be rotated by 90° allowing 2 coordinates to be measured.

Schut

Ask for the detailed brochure

C21.202.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Alufix base plates



Alufix base plates serve as a basis for small to medium fixtures. They can be connected on all six sides using quick or screw connection elements and can therefore be used in an extremely flexible way.

The Alufix Grid base plates are provided with threaded through holes on one side for elements to be screwed into.

Various sizes and base sizes (Alufix 16, 40 and 50) available. These Alufix plates are also available in a lighter ECO version which have a favourable price-performance ratio.



Alufix quaders

Solid Alufix quaders serve as connection between a base plate and workpiece support. They can be connected on all six sides using quick or screw connection elements.

Quaders are available in single and double models.

Various sizes and base sizes (Alufix 16, 40 and 50) available.



Alufix Light quaders





Alufix Light quaders serve as a frame or connection between a base plate and the workpiece in medium or large fixtures. To obtain weight reduction Alufix has designed this "light" version. The rectangular bars (quaders) are hollow instead of solid, and are available in single, double and triple models. They can be connected on all four long sides using quick or screw connection elements. The end faces can be connected using special coupling plates.

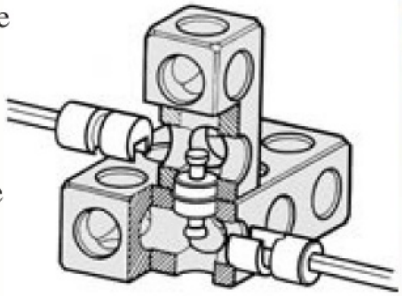
Various sizes and base sizes (Alufix 16, 40 and 50) available. These Alufix Light quaders are also available in a lighter ECO version which have a favourable price-performance ratio.

C21.203.EN.20230516

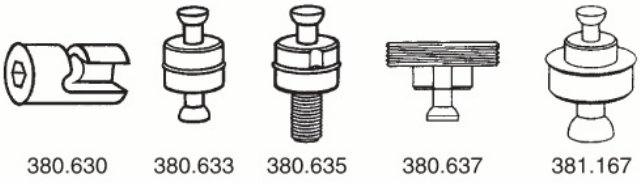
© 2023, Schut Geometrische Meettechniek bv

Alufix connection elements

For connecting base plates, quaders and other elements. With the positioning sleeves, the various Alufix systems can be connected.

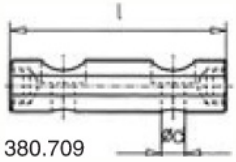


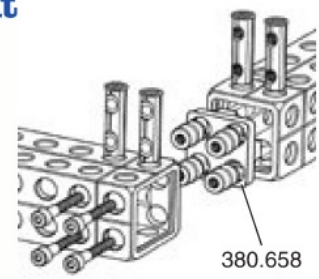


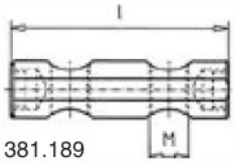


Item No.	Description	Price EUR
Alufix 25:		
381.115	36 piece set	
380.630	Lock	
380.633	Twin bolt	
380.635	Combi bolt	
380.637	Bolt disk	
381.167	Pos. sleeve 25/16	

Also available for Alufix 16, 40 and 50.









Screw connections

Item No.	Type	Price EUR
Alufix 25 crosspieces nut:		
380.328	M6 x 25[1]	
380.709	M6 x 50[2]	
381.185	M6 x 75[3]	
Alufix 25 crosspieces:		
380.325	M6 x 25[1]	
381.189	M6 x 50[2]	
381.190	M6 x 75[3]	
380.304	Positioning sleeve AF 25	

[1]Single, [2]double or [3]triple model.
Also available for Alufix 16, 40 and 50.

Couplings for Alufix 25, double model ($w \times h = 50 \times 50$ mm)

Item No.	Type	Price EUR
380.658	Single coupling	
380.717	Double coupling	

Also available for Alufix 40 and 50.

Struts for Alufix 25

Give extra support to frames and column type support points.



Item No.	Length/mm	Price EUR
381.123	125	
381.124	250	
380.715	500	
380.716	750	

Also available for Alufix 40 and 50.

C21.205.EN.20230516

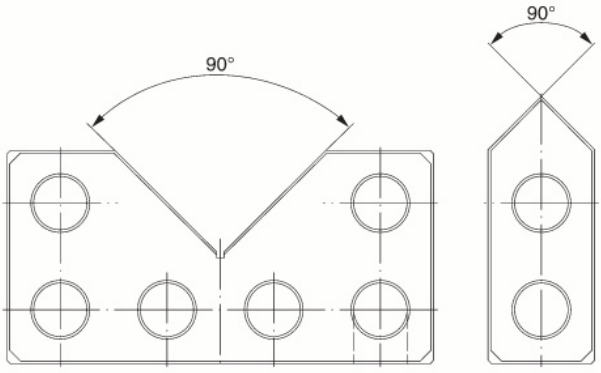
© 2023, Schut Geometrische Meettechniek bv

Alufix positioning and fixing components

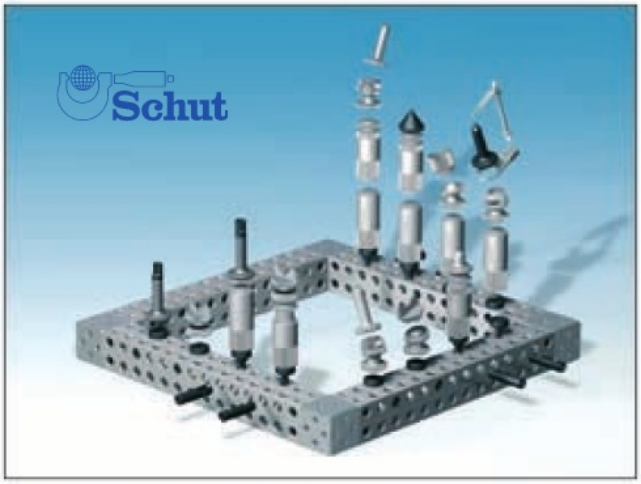
Alufix offers a large variety of positioning and fixing components. All of these components are compatible with Alufix 16, 25, 40 and 50.

Alufix 25 positioning components

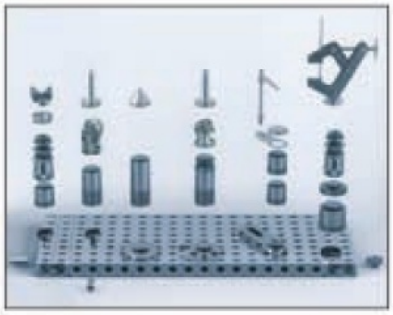
Item No.	Angle	Price EUR
Prisms:		
380.225	90°	
380.227	120°	
Delta blocks:		
380.255	90°	
380.261	120°	

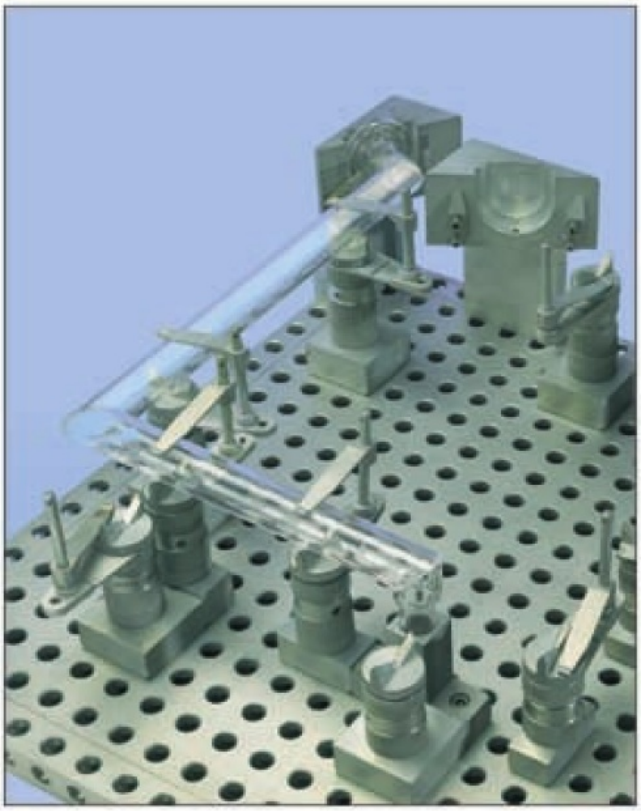


380.225 380.255



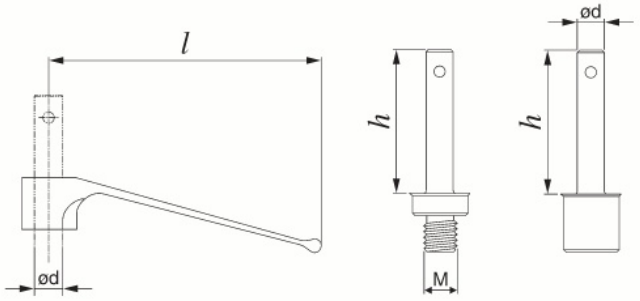






Alufix 25 fixing components

Item No.	Dimensions/mm	Price EUR
Clamping spring:		
380.704	l = 35	
380.436	l = 60	
380.901	l = 105	
Stud for clamping spring:		
380.439	h = 60	
380.442	h = 60	
381.118	h = 125	



380.704/436/901 380.442/381.118 380.439

C21.208.EN.20230516

Alufix positioning and fixing components (continued)











Item No.	Diameter/mm	Price EUR
For Alufix 25:		
381.162	50	
381.075	80	
381.078	125	

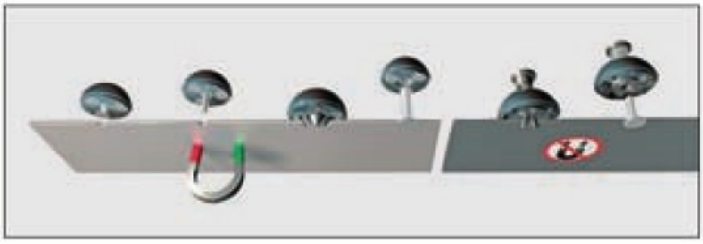
Item No.	Jaw width/mm	Price EUR
For Alufix 25:		
381.077	50	
381.164	75	
380.885	100	

Various sizes and base sizes (Alufix 16, 40 and 50) available.

Alufix Fixinspect

Fixinspect measuring tools are mounted on the workpiece features by use of magnetic coupling, spring clamp or screw connection. Thanks to the Fixinspect measuring tools, positional properties of workpiece features can be determined quickly and easily, both tactile and optical.





Ask for the detailed brochure

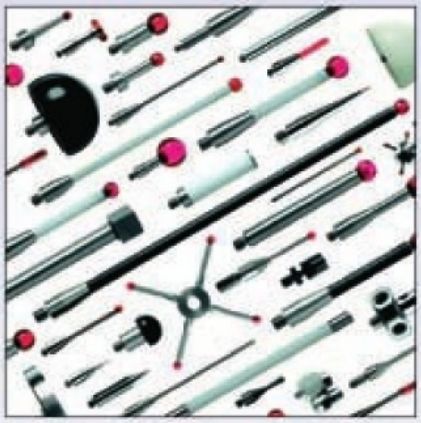


C21.209.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Probes and probe systems









Ask for the detailed catalog

C24.000.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

TP20 probe system

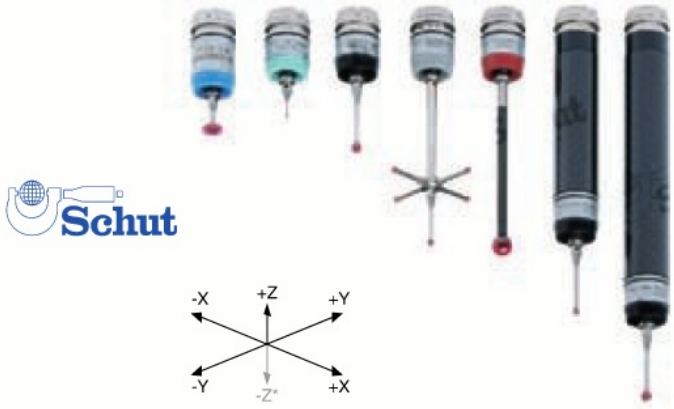
The TP20 probe consists of two parts; a probe body, and a detachable probe module that contains the kinematic touch sensor and carries the stylus assembly.

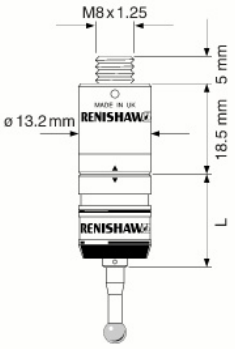
The probe body has a standard M8 x 1.25 screw connector, which enables simple fitment to all CMMs with a Renishaw standard probe head (including PH6). The body contains a magnetic proximity switch to inhibit triggering of the probe during automatic module changing with the MCR20. (The TP20 NI, *Non-Inhibit*, is not affected by magnetic fields and must be inhibited through software. The TP20 NI is available on request.)



The probe module is connected to the probe body by a highly repeatable magnetic kinematic coupling, which allows the automatic (CNC) or manual exchange of modules without the need to requalify the stylus tips.

Seven probe module options are available, each with a preset trigger force designed to ensure maximum probe performance when using different stylus configurations.





Module type[1]	Unidirectional repeatability (2σ)/µm	2D (XY) form meas. deviation PTV at 10 mm/µm	Trigger force/N (nominal at stylus tip) XY	Trigger force/N (nominal at stylus tip) Z	Overal displacement (max at stylus tip) XY[2]	Overal displacement (max at stylus tip) +Z/mm	Overal displacement (max at stylus tip) –Z/mm	Length *L* mm
LF	0.35	±0.6	0.055	0.65	±14°	3.1	-	19.5
SF	0.35	±0.8	0.08	0.75	±14°	4.0	-	19.5
MF	0.5	±1.0	0.1	1.9	±14°	3.7	-	19.5
EF	0.65	±2.0	0.1	3.2	±14°	2.4	-	19.5
6-way	0.80	±1.5	0.14	1.6	±14°	4.5	-	24.5
EM1	0.35	±0.8	0.08	0.75	±14°	4.0	1.5	69.5
EM2	0.35	±0.8	0.08	0.75	±14°	4.0	-	94.5

[1] Probe length: 10 mm, except MF: 25 mm and EF: 50 mm.
[2] The probe module can get detached if this value is exceeded.

Item No.	Description	Price EUR
	TP20 probe sets (incl. stylus tools/cleaning kit and manual):	
876.198	Probe body, probe module SF	2,595.00
876.244	Probe body, two probe modules SF	2,885.00
876.200	Probe body, probe modules SF and MF	2,885.00
	Other set compositions are available on request.	
876.180	Probe module LF: with low force (green)	1,090.00
876.170	Probe module SF: with standard force (black)	990.00
876.171	Probe module MF: with medium force (gray)	990.00
876.172	Probe module EF: with extended force (brown)	1,020.00
876.194	Probe module 6W: 6-way (blue)	1,285.00
876.190	Extension module EM1 (standard force)	1,195.00
876.195	Extension module EM2 (standard force)	1,230.00
876.168	CK200 cleaning kit	17.40

C24.202.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

PH6 Fixed Probe Head

The PH6 is a compact, vertical probe head for a single probe, with a fixed cable. The correct shank with cable combination must be chosen to suit the mounting features of your CMM. Many combinations are possible and available on request.



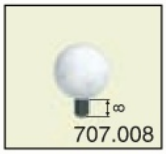
- Weight: 48 g (without shank and cable).
- Probe status identification: 1 LED.
- Cable connection: fixed cable (specify on order).
- Probe mounting: M8 thread.

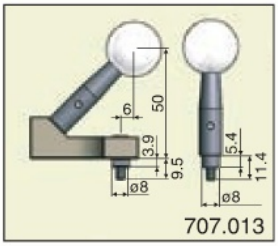
Item No.	Description	Price EUR
876.061[1]	PH6 Fixed Probe Head	308.00

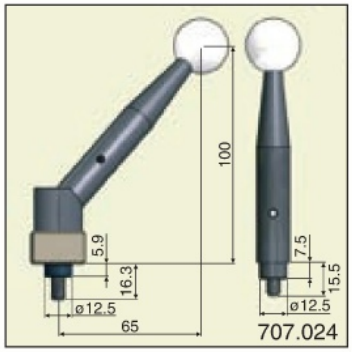
[1] Equipped with PL1 cable (0.71 m) and MS1/T shank (ø9.500 - 9.512 mm).

Qualification spheres

- Ball: ø8 or ø25 mm, made of ceramics.
- Delivery with a manufacturer measuring report.







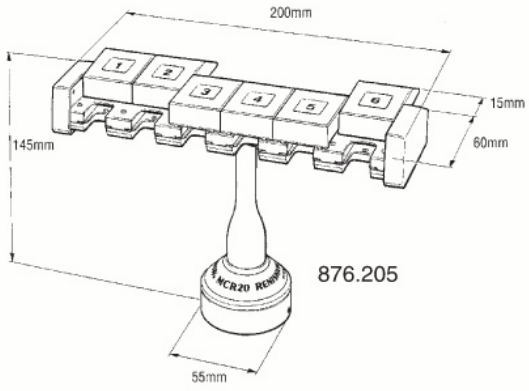
Item No.	Description	Price EUR
Qualification sphere ø8 mm:		
707.025[1]	For DeMeet-220	445.00
707.026[2]	For DeMeet-4xx/705	398.00
Qualification sphere ø25 mm:		
707.013[1]	For DeMeet-220	390.00
707.024[2]	For DeMeet-4xx/705	366.00
707.008[2]	Ball only; M6 external thread	277.00

[1] Thread M4.
[2] Thread M6.

MCR20 Probe Module Changing Rack

The MCR20 is designed to securely hold up to six probe modules for automatic (CNC) changing and to protect them from airborne contaminants which may be present in the working environment.

- Height:
  876.205: 145 mm,
  635.141: 108.5 mm,
  635.140: 110.5 mm.
- Capacity for 6 TP20 modules.
- Inhibit range: 50 mm.
- Delivery with base, without probe modules.



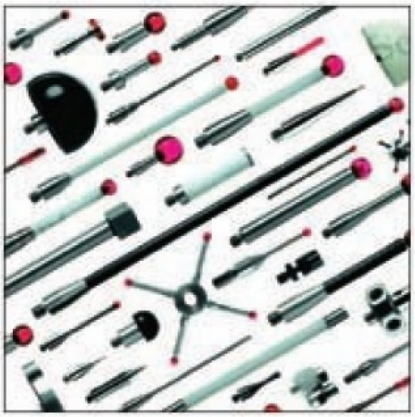


Item No.	Description	Price EUR
876.205	MCR20	2,555.00
635.141	MCR20 DeMeet-220	2,570.00
635.140	MCR20 DeMeet-4xx/705	2,610.00

C24.303.EN.20230516

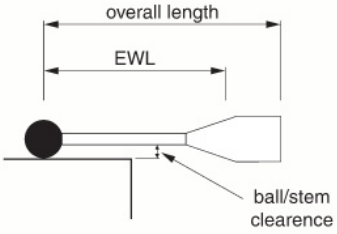
© 2023, Schut Geometrische Meettechniek bv

Probes and accessories



The element of the product to be measured determines the type and length of the probe. Maximum rigidity of the stem and perfect roundness of the ball are very important.

Only the M2 styli of the Renishaw probe program have been included in this catalog. M3, M4 and M5 are also available on request. The M2 probes are primarily suitable for the TP2, TP20 and TP200 probe systems.

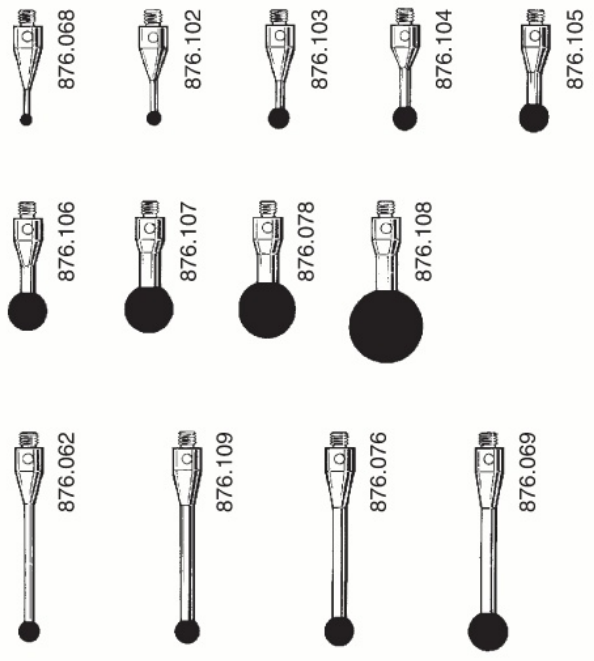


Choosing probes for inspections

In order to maximize the accuracy of the main part of the probe applications, we advise you to use:

- the shortest and stiffest probes possible; the more the probe bends or deviates, the lower the measuring accuracy.
- the largest possible probe ball; the bigger the probe ball, the greater the free space between the ball and the stem and the smaller the effect of the surface condition of the product that has to be measured.
- as little extensions as possible; every connection introduces a potential diffraction or deviation.

Ruby ball styli with stainless steel stem and thread M2



Item No.	Ball ø/mm	EWL* mm	Weight g	Price EUR
Total length* 10 mm:				
876.068	1	4.5	0.3	30.00
876.102	1.5	4.5	0.3	25.00
876.103	2	6	0.3	21.00
876.104	2.5	6	0.3	23.00
876.105	3	7.5	0.4	25.00
876.106	4	10	0.4	24.00
876.107	5	10	0.7	33.00
876.078	6	10	0.9	37.00
Total length* 11 mm:				
876.108	8	11	1.5	68.00
Total length* 20 mm:				
876.062	2	14	0.4	25.00
876.109	2.5	14	0.4	25.00
876.076	3	17.5	0.5	26.00
876.069	4	20.2	0.6	27.00

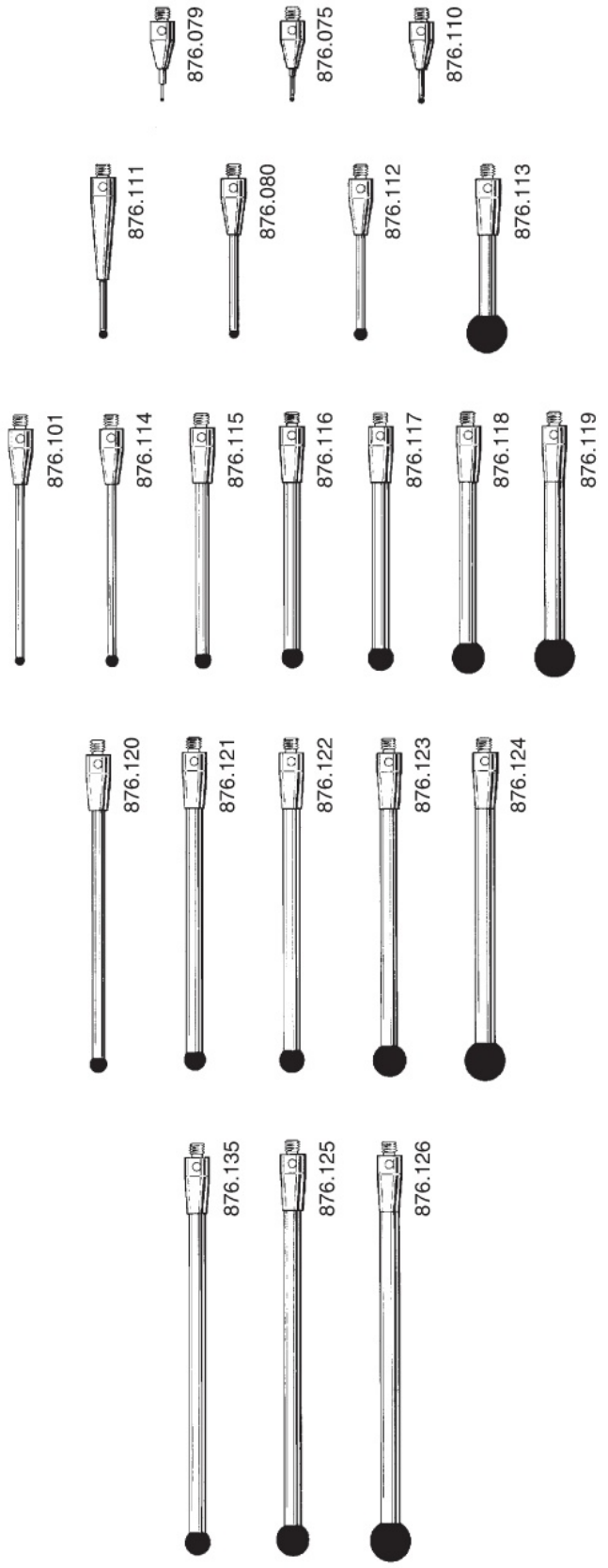
* Total length: from the base of the stem up to the center of the ball. EWL: effective working length.

C24.301.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Probes and accessories (continued)

Ruby ball styli with tungsten carbide stem and thread M2



Item No.	Ball ø/mm	EWL* mm	Weight g	Price EUR
Total length* 10 mm:				
876.079	0.3	2	0.3	114.00
876.075	0.5	3	0.3	103.00
876.110	0.7	4	0.3	84.00
Total length* 20 mm:				
876.111	1	7	0.5	51.00
876.080	1	12.5	0.41	56.00
876.112	1.5	15	1.98	55.00
876.113	5	20	1.98	60.10
Total length* 30 mm:				
876.101	1	20.5	0.4	71.00
876.114	1.5	25	0.58	60.10
876.115	2	25	0.99	55.00
876.116	2.5	25	1.48	55.00
876.117	3	25	1.49	60.10
876.118	4	30	1.57	60.10
876.119	5	30	2.57	60.10
Total length* 40 mm:				
876.120	2	35	1.29	60.10
876.121	2.5	35	1.95	60.10
876.122	3	35	1.97	64.40
876.123	4	40	2.04	64.40
876.124	5	40	3.17	64.40
Total length* 50 mm:				
876.135	3	42.5	2.44	64.40
876.125	4	50	2.52	64.40
876.126	5	50	3.75	64.40

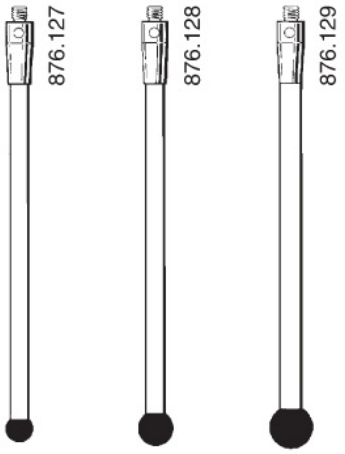
* Total length: from the base of the stem up to the center of the ball. EWL: effective working length.

C24.204.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

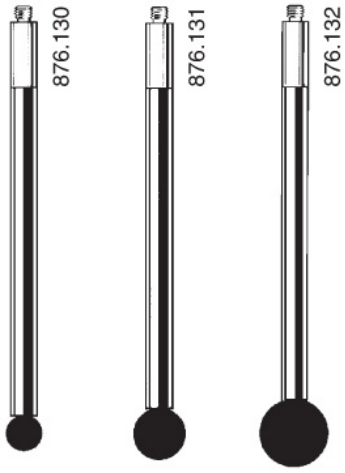
Probes and accessories (continued)

Ruby ball styli with ceramic stem and thread M2, total length[1] 50 mm



Item No.	Ball ø/mm	EWL[1] mm	Weight g	Price EUR
876.127	3	42.5	0.83	70.40
876.128	4	50	0.91	70.40
876.129	5	50	1.31	70.40

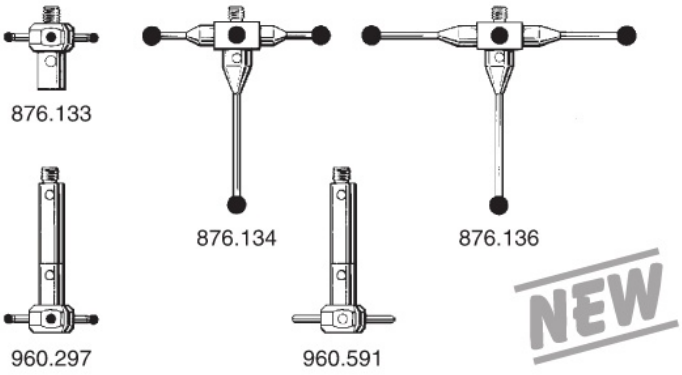
Ruby ball styli with carbon fiber stem and thread M2, total length[1] 50 mm



Item No.	Ball ø/mm	EWL[1] mm	Weight g	Price EUR
876.130	4	50.5	1	86.00
876.131	5	50.5	1.1	89.00
876.132	6	50.5	1.2	92.00

[1] Total length: from the base of the stem up to the center of the ball. EWL: effective working length.

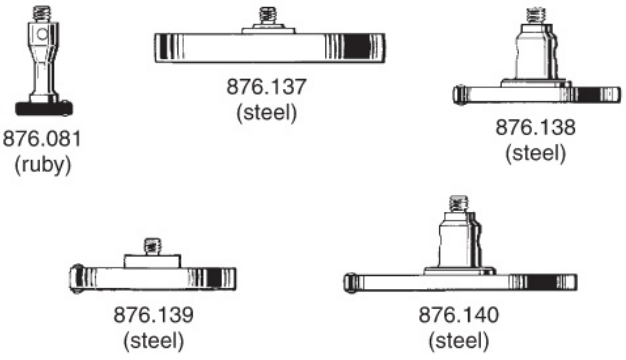
Star styli (fixed) with thread M2



Item No.	Ball ø/mm	Work[3] ø/mm	Weight g	Price EUR
876.133	1	10	0.5	173.00
876.134	2	20	1.3	130.00
876.136	2	30	1.8	125.00
960.297	1	11	1.2	357.00
960.591	–[2]	11.5	1.3	511.00

[2] Cylinder stylus, radius 0.5 mm.
[3] Span (center distance).

Disc styli with thread M2



Item No.	Disc ø/mm	Disc thick-ness/mm	Weight g	Price EUR
876.081	6	2 [4]	0.6	66.00
876.137	25	3	3.8	92.00
876.138	18	2.5[4]	3	112.00
876.139	18	3 [4]	2.7	102.00
876.140	25	2.5[4]	4	112.00

[4] Size is incl. ball probe on the disc.

C24.205.EN.20230516

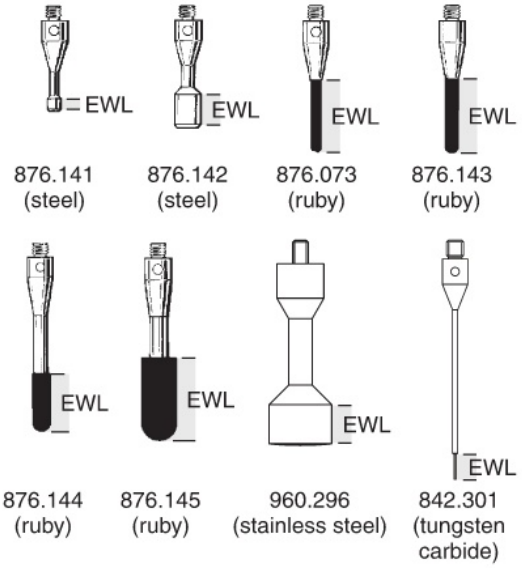
© 2023, Schut Geometrische Meettechniek bv

Probes and accessories (continued)

Cylinder styli with thread M2

Item No.	Cylinder ø/mm	Total length[1]/mm	EWL[1] mm	Weight g	Price EUR
876.141	1.5	11	1.5	0.3	19.00
876.142	3	13	3.8	0.6	19.00
876.073	1	15	8	0.3	233.00
876.143	1.5	15	8.5	0.3	205.00
876.144	2	20	7.2	0.5	142.00
876.145	4	20	10	0.9	188.00
960.296[2]	8	23	5	4.5	60.00
842.301	0.2	26	3	0.35	

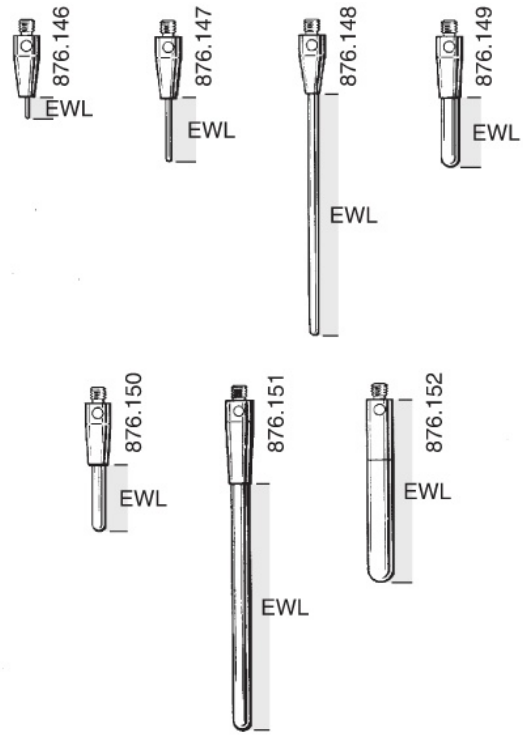
[1] Total length: from the base of the stem up to the center of the ball. EWL: effective working length.
[2] Radius bottom side 40 mm.



Parallel hemispherical ended styli (tungsten carbide) with thread M2

Item No.	Cylinder ø/mm	Total length*/mm	EWL* mm	Weight g	Price EUR
876.146	0.3	10.2	2.7	0.3	168.00
876.147	0.5	15.3	7.8	0.3	166.00
876.148	1	35.5	29.8	0.7	134.00
876.149	1.5	15.8	8.3	0.6	120.00
876.150	2	16	8.5	0.8	120.00
876.151	2	40	32	2	72.40
876.152	3	22.5	22.5	2	120.00

* Total length: from the base of the stem up to the center of the ball. EWL: effective working length.



Special purpose styli with thread M2

Item No.	Length mm	Weight g	Material	Price EUR
876.160	15	0.7	stainless steel	24.00
876.161	10	0.7	tungsten carbide	87.00
876.162	11	3.3	ceramic	261.00



876.160 (pointer, stainless steel, point 30°)

876.161 (pointer, tungsten carbide, radius 0.1 mm)

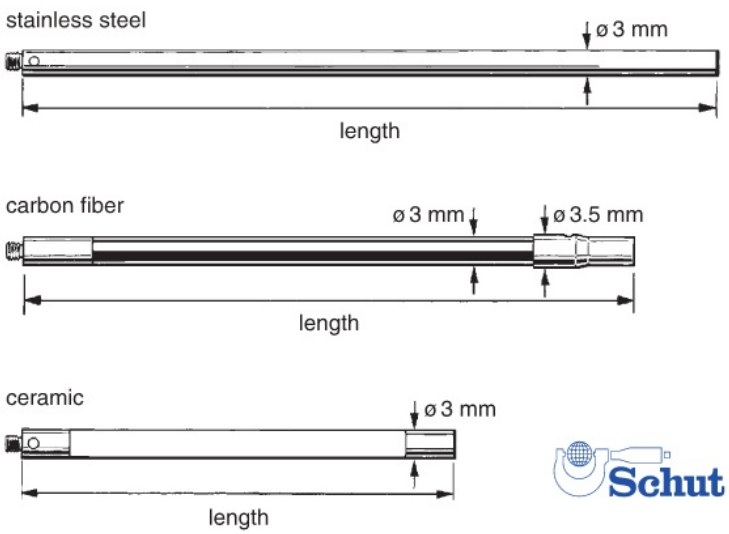
876.162 (hollow ball, ceramic, spherical ø 18 mm)

C24.206.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Probes and accessories (continued)

Stylus extensions with thread M2



Item No.	Length mm	Weight g	Price EUR
Stainless steel:			
876.067	5	0.2	11.00
876.077	10	0.4	13.00
876.070	20	0.9	14.00
876.164	30	1.4	15.00
876.165	40	1.8	17.00
Carbon fiber:			
876.153	40	0.9	80.00
876.154	50	1	83.00
876.155	70	1.3	86.00
876.156	90	1.5	89.00
Ceramic:			
876.157	30	0.97	61.80
876.158	40	1.22	64.40
876.159	50	1.51	67.00

Stylus knuckles to put the probe in any desired position





Item No.	Thread	EWL* mm	Center offset/mm	Weight g	Price EUR
876.072	M2	8	4.5	1.6	55.00
876.087	M2	16.5	–	1.3	58.80

* EWL: effective working length.

Stylus centers for a maximum of 5 styli



876.071
4-way:
3 side (120°)
1 bottom



876.064
5-way:
4 side (90°)
1 bottom

Item No.	Thread	EWL* mm	Center size/mm	Weight g	Price EUR
876.071	M2	7.5	7.5	1.1	65.30
876.064	M2	8	7.5	0.8	41.00

* EWL: effective working length.

Adapters (stainless steel)



Item No.	Thread external/internal	Length mm	Weight g	Price EUR
876.074	M2/M3	7	0.4	12.00
960.276	M2.5/M2	5		7.40
876.065	M3/M2	5	0.6	9.00

Styli tool for fitting styli to probe modules, couplings and extentions



Item No.	Description	Price EUR
876.166	Styli tool for M2 and M3 threaded styli	8.00

C24.207.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

A
Absolute
– calipers 26-27, 30-33, 35, 37, 40, 52-54, 58
– depth calipers 86
– dial indicators 211-212, 216-219, 224
– micrometers 95, 101-102
– probes 266
– three-point internal micrometers 160
Alignment tools 346
Alufix fixture system 522-526
– basic sets for DeMeet 517
Angle blocks (cast iron) 307
Angle gauge blocks 378
Angle gauges 403
Angle plates (cast iron) 308-309

B
Backs for dial indicators 244
Ball attachments for micrometers 134-135
Ball micrometers 129
Bases for dial indicator stands 273, 278
Beam compasses 458
Bench centers 288-291
– Fisso 291
Bevel protractors (see Protractors) 335-343
Beveled edge squares 320
Beveled straight edges 333
Bore gauges (2-point) 162-166, 168-174, 177-182, 184-186, 189-192, 206-208
(see Internal measuring instruments)
Bore gauges (3-point) 167
(see Internal measuring instruments)
Bore micrometers (2-point) 177-181
(see Internal micrometers)
Bore micrometers (3-point) 144-161
(see Three-point internal micrometers)
Boremetic three-point internal micrometers 160
Bridge-type straight edges 332

C
Caliper compasses 461
Caliper Holder 79
Calipers 26-74, 404-405, 457
– absolute 26-27, 30-33, 35, 37, 40, 52-54, 58
– Bluetooth 36
– brass 68
– carbon 36, 56, 59-60
– digital 26-66, 68, 404-405
– for brake discs 51
– for center distances 42, 52
– for gear tooth thickness 48
– for groove measurements 45-47, 53, 71
– for internal measurements 45-47, 49, 53
– for large measuring ranges 54-60, 64-66, 72-74
– for left-handers 26, 69-70
– for scribing 42, 52, 457
– for tube wall thickness 48, 53
– for welding seams 404
– IP54 31-33
– IP65 ..... 56, 59
– IP66 60
– IP67 ..... 36-40, 52-53, 57-58
– Mitutoyo 35, 40, 52-53, 58, 60, 67, 70
– plastic 68
– radius 50
– solar 29
– TESA 34, 38-39, 57, 67, 71
– universal 61-66
– with dial 67-68
– with glass ruler 30
– with high resolution 29
– with large measuring faces 43
– with long measuring jaw 41
– with long measuring knives 49
– with pin-shaped anvil 43
– with pointed anvil 48
– with pointed measuring jaws 44, 52
– with prismatic anvil 51
– with rotatable LCD display 50
– with slidable measuring jaws 42, 52
– with thin measuring jaws 44
– with tolerance function 30
– with tungsten carbide measuring faces 41
Calipers accessories 34, 39, 66, 75-79, 377
– cases 78-79
– depth measuring bases 34, 39, 76-77
– digital protractors 79
– hard cases 79
– holder 79
– inspection sets 76-77, 377
– probes 66, 75
– soft cases 79
Calipers DIN 862 25
Calipers in sets 80
Cases for calipers 78-79
Cases for gauge blocks 376
Cases for squares 313, 316
Cases for straight edges 329
Center gauges 402
Center instruments 253-254
Center squares 461
Centering device for Imicro internal micrometers 155
Ceramic
– gauge blocks 368-370, 373, 377
– parallels 311
– squares 311
– straight edges 311
Chamfer calipers 405
– digital 405
Circular spirit levels 355
Circumference tapes 448-451
Circumference tapes for diameters 449-450
Clamping bushes for dial indicators/probes 267
Clamping tables (cast iron) 308
Cleaner for surface plates 296, 479
Cleaning cloth 375

C99.311.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Clinobevel digital clinometer 347
Clinometers 343-348
– digital 344-347
– magnétic 343-345
Clinometers DIN 877 334
Coating thickness gauges 489-490
– eddy current 489-490
– electro-magnetic 489-490
Combination bevel protractors 340
Compasses 458-461
Conical plug gauges 401
Construction systems 268-269, 519-526
– Alufix 522-526
– DF 519-521
– MF 268-269
Contact points for dial indicators/probes 238-240
Contact tachometers 495-496
Contourmeters 172
Convertor conversion table mm/inch 135, 406
Coolant hoses with magnetic base 280
Coolant Proof
– calipers 40, 52-53
– depth calipers 86
– micrometers 101, 130-131
– scale units 447
Coordinate measuring machines DeMeet 509-515
– accessories 516-518
– fixture systems basic sets 517, 520
Covers for surface plates 292
Crankshaft meters 182
Crankshaft spirit levels 353
Cross spirit levels 354
Cylindrical squares (steel) 309

D

D/RS Instrumentbox 504
DeMeet 3D CNC measuring machines 509-515
– accessories 516-518
– fixture systems basic sets 517, 520
Depth calipers 81-90
– absolute 86
– digital 81, 84, 86, 89
– for keyway depths 90
– IP67 ..... 84, 86
– Mitutoyo 86
– TESA 84-85
Depth dial indicators Käfer 90
Depth gauges 81-90, 136-138
– absolute 86
– digital 81, 84, 86, 89-90, 136, 138
– for keyway depths 90
– IP67 ..... 84, 86
– Käfer 90
– Mitutoyo 86, 138
– TESA 84-85
– with dial 90
Depth measuring bases
– for calipers 34, 39, 76-77
– for dial indicators 90, 241
Depth micrometers 136-138
– digital 136, 138
– IP65 136
– Mitutoyo 138
Depth micrometers DIN 863 91
DF fixture system 519-521
– basic sets for DeMeet 517, 520
Dial calipers 67-68
Dial gauges (see Dial indicators) 210-237
Dial indicator stands 271-277, 284-285
– Fisso 275-277
Dial indicator stands accessories 273, 278-279
Dial indicator tester Peacock 244
Dial indicators 210-237
– absolute 211-212, 216-219, 224
– Bluetooth 212
– digital 210-224
– horizontal 215
– IP5x 213-214, 222-223, 226, 231-232
– IP6x 219-223
– Käfer 233-234
– Mitutoyo 216-219, 224, 230
– Peacock 228-229
– solar 216
– TESA 220-223, 231-232
– with back plunger 229
– with calculation function 215, 218
– with determination of the reversal point 211-214, 217, 220-221
Dial indicators accessories 19, 90, 238-244
– adapters 240
– angle probes 243
– backs 244
– depth measuring bases 90, 241
– inserts 238-240
– retraction levers 19, 242
– special probes 243
– swivel-type probes 243
Dial indicators DIN 878 209
Dial test indicators 245-251
– digital 245
– Interapid 250
– Käfer 251
– Mitutoyo 247-248
– Peacock 246
– TESA 249
Dial test indicators accessories 252-253
Dial test indicators DIN 2270 209
Dialtronic dial indicators 220, 222
Digico dial indicators 221, 223
Digimatic
– calipers 35, 40, 52-53, 60
– depth calipers 86
– depth micrometers 138
– dial indicators 216-219, 224
– micrometer heads 142
– micrometers 95, 101-102, 130-131
– SPC printer 505
– USB interface 505

C99.312.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Digital length measuring systems Magnescale 7-24
DIN standards
– 2270 (dial test indicators) 209
– 861 (gauge blocks): see ISO 3650 363
– 862 (calipers) 25
– 863 (micrometers) 91, 143
– 866 (graduated rulers) 440
– 874 (straight edges) 297
– 875 (squares) 297
– 876 (surface plates) 270, 297
– 877 (clinometers/spirit levels) 334
– 878 (dial indicators) 209
– 879 (precision dial indicators) 209
Distance meters 454
– laser 454
Dividers 458-461
Drill gauges 400
Dynamometers 496-498
– digital 498
– spring scales 498
– strain gauges 496-497
– torquemeters 496

E

Eddy current coating thickness gauges 489-490
Edge finders 254-255
Electro-magnetic coating thickness gauges 489-490
Electronic indicators 258-261
Endoscopes 437
External measuring instruments 97-98, 102, 184, 187-189, 194-208, 486-490
– digital 97-98, 102, 184, 187, 189, 194, 196-198, 200-201, 205
– eddy current 489-490
– electro-magnetic 489-490
– for tube wall thickness 194-198, 203
– IP67 ..... 189, 194
– Käfer 200-201
– Krœplin 189, 194-196
– mini 102
– Mitutoyo 102
– Peacock 202-203
– ultrasonic 486-488
– universal 203
Eye magnifiers 409

F

Feeler gauges 380-381
Feeler stock coils 381
Field of view qualifier 439, 516
Filetor thread table 135, 406
Fishtail gauges 402
Fisso
– bench centers 291
– dial indicator stands 275-277
Fixture systems 519-526
– Alufix 522-526
– DF 519-521
Fixture systems basic sets for DeMeet 517, 520
Fixture systems custom-built 518
Flange squares 318
Folding magnifier 413
Frame spirit levels 349, 351-352
– digital 349

G

Gauge blocks 364-373, 377-378
– angle 378
– ceramic 368-370, 373, 377
– long 371-372
– steel 364-365, 371-372, 377-378
– tungsten carbide 366-367
Gauge blocks accessories 372-377
– gloves 375
– holder for gauge blocks 375
– maintenance kits 377
– toggle clamps 372
Gauge blocks general information 363
Gauge blocks ISO 3650 363
Gauge blocks plastic cases 376
Gauge blocks sets 364-373, 377-378
Gauge blocks wooden cases 376
Gauges 183, 383-389, 391-406
– adjustable snap gauges 399
– angle 403
– cone plug gauges 401
– drill gauges 400
– flat plug gauges 401
– keyway depths 393
– limit 383-389, 391-393, 398
– measuring wedges 400, 405
– nozzle gauges 401
– radius/shape 403
– taper gauges 392
– telescopic 183
– thickness 406
– thread 394-398, 402
– thread cutting tool gauges 402
– thread jaw gauges 398
– twist drill grinding gauges 400
– welding seam 404
Gauges (probes) 13-17, 19, 258, 262-266
– absolute 266
– DC analog 262
– IP5x 14, 263-264
– IP67 ..... 13, 15
– IP6x 14, 17, 262-266
– Magnescale 13-17, 19
– TESA 262-264
Gauges measuring reports 383, 391, 394
Gear pitch micrometers 117, 131-132
Gear tooth thickness calipers 48
Glass rulers with magnifiers 427
Glass standard 439, 516
Gloves 375
Graduated rulers 427, 441-445
– aluminum 442-444
– glass, with magnifiers 427

C99.313.EN.20230516

– self-adhesive 443-444
– steel 441-445
Graduated rulers DIN 866 440

H
Handles for pin gauges 388
Hard cases for calipers 79
Hardness testers 481, 483-485
– digital 481, 483-485
Hardness testers measuring stands 482
Head magnifiers 412
Height and scribing gauges 464-470
– Bluetooth 465
– digital 464-468
– Mitutoyo 467-468
Height gauges 471-478
– digital 471-478
– Mitutoyo 475-478
– TESA 471-474
Height gauges accessories 479
– digital protractors 479
Holder for gauge blocks 375
Holtest three-point internal micrometers 158-159
Hose water level 355
Hygrometers (humidity meters) digital 493-494

I
Imicro three-point internal micrometers 154-157
Inclination (see Clinometers) 343-348
Induction blocks magnetic 301
Infrared thermometers digital 491
Inserts for dial indicators/probes 238-240
Inside calipers 45-47, 49, 53
Inspection sets for calipers 76-77, 377
Inspection sets for micrometers 135, 373, 377
Inspection spirit levels 349-351, 353
– digital 349
Instrument interface/display 261, 502
Instruments sets 80
Interapid
– dial test indicators 250
Interface boxes 502-504
Internal and external measuring instruments (2-point) 206-208
Internal measuring instruments (2-point) 162-166, 168-174, 177-182, 184-186, 189-192, 206-208
– crankshaft meters 182
– digital 166, 172, 180, 184-185, 189-190, 192
– for internal grooves 181
– for screw thread 179
– internal micrometers 177-181
– IP67 189-190
– Krœplin 189-192
– Mitutoyo 166
– Peacock 165
– Schwenk 168-172
– stick micrometers 177-179
– with interchangeable inserts 179
Internal measuring instruments (3-point) 167
– digital 167
– IP67 167
– Krœplin 167
Internal measuring instruments setting instruments 175-176
Internal micrometers (2-point) 177-181
– digital 180
– for internal grooves 181
– for screw thread 179
– stick micrometers 177-179
– with interchangeable inserts 179
Internal micrometers (3-point) ..... 144-161 (see Three-point internal micrometers)
Internal micrometers DIN 863 143
ISO 3650 (gauge blocks) 363
Isomaster
– micrometers 105, 132

K
Käfer
– depth dial indicators 90
– dial indicators 233-234
– external measuring instruments 200-201
– lever-type dial test indicators 251
– precision dial indicators 234, 236
– saw tooth indicators 251
Keyway depths
– depth calipers 90
– gauges 393
– measuring wedges 400
– micrometers 125, 130
Knife-edged straight edge 333
Krœplin
– external measuring instruments 189, 194-196
– external measuring instruments cases 193
– external measuring instruments holders 193
– internal measuring instruments 167, 189-192
– internal measuring instruments cases 193
– internal measuring instruments holders 193

L
Laser alignment tools 346
Laser distance meters 454
Laser tachometers 495
LED lamp on magnetic stand 280
Left-handed calipers 26, 69-70
Left-handed micrometers 93, 103
Length measuring systems Magnescale 7-24
Levels (see Spirit levels) 349-355
Lever-type dial test indicators 245-251
– digital 245
– Interapid 250
– Käfer 251
– Mitutoyo 247-248
– Peacock 246
– TESA 249

C99.314.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Lever-type dial test indicators accessories 252-253
LH-600 height gauges 475-477
Limit micrometers 111, 132

M
Magnescale detectors 17, 21
– MD (Magnescale) 21
– MT12/13/14/20 (DT gauges) 17
Magnescale digital length measuring systems 7-24
Magnescale display units 20-24
– LG20 20-21
– LH70/71 20-21
– LT10A 23
– LT11A 23
– LT20A 24
– LT30 24
– LY71/72 21-22
Magnescale gauges 13-17
– DF (Magnescale) 15
– DK (Magnescale) 13-14
– DS (Magnescale) 16
– DT (Digiruler) 17
– DT (Magnescale) 16
– MT (Magnescale) 16
Magnescale MF10 Digital Tolerance Indicator 15
Magnescale multi-interface unit MG 18
Magnescale scales 7-10, 12
– GB-ER (Magnescale) 8
– Rolling Mill 12
– SJ700A (Millman) 7
– SL130 (Digiruler) 9
– SR (Magnescale) 12
– SR-721SP (Magnescale) 10
Magnetic holders 301
Magnifiers 408-418, 424-426, 428
Magnifiers accessories 427, 439
Magnifying glasses 418, 425, 428
Maintenance kits for steel gauge blocks 377
Mandrels 393
Marking calipers 457
Marking compasses 458-461
Marking gauges 456-457
Measuring balls 378
Measuring fixture system MF 268-269
Measuring force indicators for micrometers 134
Measuring instrument interfaces 261, 502-504
Measuring machines DeMeet 509-515
– accessories 516-518
– fixture systems basic sets 517, 520
Measuring pins 386-388
Measuring pins accessories 388
Measuring staffs 426-427, 441-445
(see Graduated rulers)
Measuring stands 281-283, 286-287, 482
– for hardness testers 482
Measuring tables 286
Measuring wedges 400, 405
– digital 405
MF measuring fixture system 268-269
Microfibre cleaning cloth 375
Micro-Hite height gauges 471-473
Micromaster
– micrometers 100, 132
Micrometer heads 139-142
– digital 140, 142
– IP65 ..... 140, 142
– Mitutoyo 141-142
Micrometer heads DIN 863 91
Micrometers 92-132
– absolute 95, 101-102
– blade 125
– Bluetooth 98
– digital 92-102, 109, 112-120, 122-126, 130-132
– for brake discs 120
– for can seams 129
– for external gears 122, 131
– for gear pitches 117, 131-132
– for hubs 129
– for keyway depths 125, 130
– for large measuring ranges 107-109
– for left-handers 93, 103
– for paper 117, 121, 131
– for pitch diameters 126-128, 131-132
– for screw thread 126-128, 131-132
– for sheet metal 121
– for soft materials 121, 131
– for tube wall thickness 114-116, 131-132
– for wires and balls 129
– IP54 ..... 95-97, 100, 132
– IP65 ..... 97-99, 101, 109, 112-116, 119-120, 122-124, 126, 130-131
– large anvils 120
– limit 111, 132
– mini 110
– Mitutoyo 95, 101-102, 105-106, 130-131
– TESA 100, 105, 132
– universal 115, 118, 131-132
– with counter 94
– with deep frame 119
– with deep throat 120-121
– with dial indicator 108, 110-112, 132
– with disk-shaped measuring faces 117, 121, 131-132
– with interchangeable inserts 118, 122, 126-128, 131-132
– with lamellar measuring faces 125, 130
– with large measuring faces 117, 121, 131-132
– with pin-shaped anvil 116
– with pointed measuring faces 120, 124, 130
– with prismatic anvil 123, 130, 132
– with small measuring faces 113, 130, 132
– with special measuring jaws 116
– with spherical measuring faces 114
Micrometers accessories 123, 127, 133-135, 373, 377
– ball attachments 134-135
– inspection sets 135, 373, 377
– measuring force indicators 134

C99.315.EN.20230516

– probes 135
– setting standards 123, 127, 133
– stands 134
Micrometers DIN 863 91
Micrometers in sets 80
Microscopes 412, 419-423, 429-436
– pen-shaped 412
– stereo 429-433
– with camera 430-431, 433-436
– with scales 419-423
Microscopes accessories 439
Module calipers 48
Monocular telescopes 411
Morse taper gauges 392
Mounting straight edges 330-331
Multi-sensor measuring machines DeMeet 509-514

N

Niveltronic electronic spirit levels 347
Novometer contourmeters 172
Nozzle gauges 401

O

Objectives (stand microscopes) 421
Optical flats 379
Optical measuring machines DeMeet 509-514
Outside micrometers (see Micrometers) 92-132

P

Parallel blocks 307
Parallels 311, 324-325, 331
– cast iron 331
– ceramic 311
– granite 325
– steel 324
Peacock
– dial indicator tester 244
– dial indicators 228-229
– external measuring instruments 202-203
– inserts for lever-type dial test indicators 246
– internal measuring instruments 165
– lever-type dial test indicators 246
Pen microscopes 412
Pin gauges 386-388
Pin gauges accessories 388
Pipe wall thickness gauges
– calipers 48, 53
– external measuring instruments 194-198, 203
– micrometers 114-116, 131-132
PJ-A3000 profile projectors 438
Plan parallel optical flats 377, 379
Plate thickness gauges ..... 102, 184, 187-189, 194-208 (see External measuring instruments)
Plug gauges 383-389, 394-398, 401
– conical 401
– flat 401
– limit 383-389, 398
– thread 394-398
Plug gauges for small bores 183
Precision dial indicators 234-237
– Käfer 234, 236
– Schwenk 237
– TESA 237
Precision dial indicators DIN 879 209
Precision tapes 451-453
– digital 453
Precision tapes for circumference and diameter 451
Preset (Z-axis setting gauges) 256
Printer SPC Mitutoyo 505
Probe systems Renishaw 528-534
Probes 13-17, 19, 258, 262-266
– absolute 266
– DC analog 262
– IP5x 14, 263-264
– IP67 ..... 13, 15
– IP6x 14, 17, 262-266
– Magnescale 13-17, 19
– TESA 262-264
Probes accessories 19, 238-240, 242-243, 267
– angle probes 243
– inserts 238-240
– probe holder 243, 267
– retraction levers 19, 242
– special probes 243
– swivel-type probes 243
Probes for calipers 66, 75
Probes for micrometers 135
Profile projectors Mitutoyo 438
Protractors 79, 335-348, 457, 479
– clinometers 343-348
– combination 340
– digital 79, 335-337, 341-347, 457, 479
– for calipers and height gauges 79, 479

Q

QM-Height height gauges 476-478
Qualification spheres 516, 529
Quick Mini quick thickness gauge 102
Quick thickness gauges Mitutoyo 102

R

Radius gauges 403
Reference balls 516, 529
Refractometers 500
Remote Instrument Display 502
Renishaw probe systems 528-534
Retraction levers for dial indicators/probes 19, 242
Ring gauges 394-398
Roughness specimens 360-361
Roughness specimens on wall chart 360
Roughness testers 357-359
– Mitutoyo Surftest 357-358
– TESA Twin-Surf 359
Rulers (see Graduated rulers) 426-427, 441-445

S

Saw tooth indicators 251
Scale magnifiers 409, 414-417, 424, 426

C99.316.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Scale microscopes 419-423
Scale units digital 446-447
– IP66 447
– Mitutoyo 447
Schwenk
– circumference tapes 448-449
– circumference tapes for diameters 449
– contourmeters 172
– internal measuring instruments 168-172
– length measuring tapes for plane parallel distances . 451
– precision dial indicators 237
Screw pitch gauges 406
Screw thread gauges 394-398, 402
Screw thread micrometers 126-128, 131-132, 179
– digital 126, 131-132
– for internal measurements 179
Screw thread micrometers setting standards 127
Screw thread tables 135, 406
Scriber points 458
Scribing calipers 42, 52, 457
Scribing compasses 458-461
Scribing tools 42, 52, 456-462, 464-470
– caliper compasses 461
– calipers 42, 52, 457
– center squares 461
– dividers 459-460
– height gauges 464-470
– marking gauge digital 457
– marking gauges 456-457
– scriber points 458
– surface gauges 462
– trammels 458
Select gauge blocks 365, 367, 369, 372
Setting bevel 342
Setting gauges Z-axis 256
Setting instruments (universal) 462
Setting instruments for
– internal measuring instruments 175-176
– stick micrometers 175
– tools 257
Setting rings 389-391, 398
Setting standards for
– micrometers 133
– micrometers with prismatic anvil 123
– screw thread micrometers 127
Shape and radius gauge 403
Shore hardness testers 481-482
Sine bars 323
Sine plates 306
Smartbox interface 503
Soft cases for calipers 79
Solar calipers 29
Sonarscopes 500
Sound level meters digital 499
SPC printer Mitutoyo 505
Spirit levels 343-355
– clinometers 343-348
– digital 344-347, 349
– with flat base 354
Spirit levels DIN 877 334
Spring scales digital 498
Square blocks granite 307
Squareness testers 322
Squares 310-321
– aluminum 321
– ceramic 311
– granite 310
– steel 312-321
– with base 315-317
– with heavy beam 318-319
Squares DIN 875 297
Squares wooden cases 313, 316
Stands for dial indicators 271-277, 281-287
– Fisso 275-277
Stands for hardness testers 482
Stands for micrometers 134
Stands for surface plates 295-296
Stereo microscopes 429-433
– with camera 430-431, 433
Stereo microscopes accessories 431-433, 439
Stethoscope 500
Stick micrometers 177-179
– for screw thread 179
– with interchangeable inserts 179
Stick micrometers setting instruments 175
Straight edges 311, 324-333
– aluminum 328-329, 331
– bridge-type 332
– cast iron 331-332
– ceramic 311
– for mounting 330-331
– granite 325
– knife-edged 333
– steel 324, 326-327, 330-331, 333
– triangular 332
Straight edges DIN 874 297
Straight edges wooden cases 329
Strain gauges 496-497
Surface gauges 462
Surface plates 292-293, 479
– cast iron 293
– granite 292, 479
Surface plates accessories 292, 294-296, 479
– cleaner 296, 479
– covers 292
– stands 295, 479
– supports 294
Surface plates DIN 876 ..... 270, 297
Surface roughness testers 357-359
– Mitutoyo Surftest 357-358
– TESA Twin-Surf 359
Surftest surface roughness testers 357-358

T

Tables 135, 406
Tachometers 495-496
– contact 495-496
– laser 495
Taper gauges 392

C99.317.EN.20230516

Telescopes monocular 411
Telescopic gauges 183
Telescopic mirrors/magnets 500
Terms of sales and delivery 543
TESA Link Connector 507
TESA TWIN-Cal calipers IP67 39
TESA TWIN-T10 259
TESA TWIN-T20 260
TESA-Cal calipers IP67 38
TESA-Hite height gauges 473-474
Tesamaster
– micrometers 105
Thermal imager 494
Thermohygrograph digital 493
Thermohygrometers digital 493
Thermometers 491-494
– digital 491-494
– infrared 491
Thickness gauges 406, 486-490
– eddy current 489-490
– flat 406
– ultrasonic 486-488
Thickness gauges 102, 184, 187-189, 194-208
(see External measuring instruments)
Thread gauges 394-398, 402
– thread cutting tool gauges 402
– thread jaw gauges 398
– thread plug and ring gauges 394-398
Thread measuring wires (three-wire method) 128
Thread tables 135, 406
Three-point internal micrometers 144-161
– absolute 160
– digital 146-147, 150-153, 156-157, 159-160
– IP54 ..... 152-153, 156-157
– IP65 ..... 150-151, 159
– Mitutoyo 158-160
– TESA 154-157
Three-point internal micrometers DIN 863 143
Timerbox 506
Toggle clamps for long gauge blocks 372
Tolerator tolerance table 135, 406
Tool presetters 257
Toolmakers' sets 320
Toolmakers' squares 321
Torquemeters 496
Touch probe measuring machines DeMeet 509-515
Touch sensors 255
TP20 probe system 528
Trammels 458
Tube wall thickness gauges
– calipers 48, 53
– external measuring instruments 194-198, 203
– micrometers 114-116, 131-132
TWIN-Cal calipers 34
Twin-Surf surface roughness testers 359
Twist drill grinding gauges 400

U

Ultrasonic thickness gauges 486-488
Unimeter universal measuring instruments 206-207
Univdersal meters for bevels 405
Universal measuring instruments 206-208
Universal micrometers 115, 118, 131-132
Universal setting instruments 462
Universal thickness gauges 203
USB Input Tool Direct 506
U-WAVE Wireless Communication System 506

V

V-blocks 298-301
– adjustable 300
– granite 301
– magnetic 299, 301
Vibration testers digital 499
Video measuring machines DeMeet 509-514
Video microscopes 430-431, 433-436
Vises 302-306
– mini 302-303

W

Wedges 400, 405
– digital 405
Welding seam gauges and calipers 404
Wire and ball micrometers 129
Workshop calipers 54-60, 64, 72-74

X

X-blocks 298

Z

Z-axis setting gauges 256

C99.318.EN.20230516

© 2023, Schut Geometrische Meettechniek bv

Schut Geometrical Metrology
Schut Geometrische Meettechniek bv
Duinkerkenstraat 21
9723 BN Groningen, The Netherlands
Chamber of Commerce, Groningen, The Netherlands, No. 02018313
VAT No. NL001360267B01

Terms of sales and delivery

General
These terms of sales and delivery are exclusively valid with rejection of all other terms of delivery, which may be declared valid, specifically the terms of the buyer, for all our deliveries, unless a written other agreement has been made.

Prices
The prices in this catalogue are in EUR and excl. VAT and do not include the costs of assembly, installation, instruction, transport package, shipment, etc. if applicable. Delivery ex. works Groningen, The Netherlands.

Additional Services
Costs can be charged for additional services such as processing invoices in third-party systems, issuing an origin declaration and export documents, etc.

Payment
Payment of our invoice should be made to our bank account without deduction of any discount. Any deduction will be charged. We remain the right for invoicing partial deliveries. We reserve the right to charge interest on the delayed payments. In case of payment delay we reserve the right to postpone new deliveries and services.
The prices in this catalog can change on any moment. For current prices refer to our online catalog on www.Schut.com.

Ownership Reservation
The delivered goods shall remain our legal property until full payment of the related invoice(s) is fulfilled.

Delivery Time
The delivery time we mention in an offer, is the time counting from the day we receive the order, interim sales preserved. We do our utmost to meet the confirmed delivery time. This is deemed to be an estimate and a prolongation of the delivery time can not give rise to contractual obligations or any claims. The order can not be withdrawn due to prolongation of the delivery.

Warranty
Our warranty is at all times explicitly limited to the repair or replacement of the defective goods or credit of the amount invoiced to the buyer for such goods. Any related travelling or shipping costs are charged to the buyer. Any claim for compensation of consequential or any indirect loss or damage shall not be taken into consideration. The quality-warranty provided by the producer of the catalog-items is applicable. All defects and damage, direct or indirect, caused by the buyer or third-party due to unprofessional, wrongly or careless handling of the goods are excluded from warranty and will not be refunded.

Return Shipment
A return shipment can only be accepted, if it has been agreed upon on beforehand. Return shipments must carry a return-authorization-number and a written problem-description. 10% of the sale price of the products (with a minimum of EUR 25.- per article) will not be credited, in the case the product is taken back by us. The carriage and customs have to be paid and taken care of by the buyer. Goods especially made or ordered for the customer and flawless goods can never be returned. No consignment on approval will be made.

Repairs
Regarding the fulfillment of repair-order applications and repairs our conditions for return shipments have to be fulfilled. Besides these, we reserve the right to charge the costs for repair-order applications, consisting of investigation costs and transport costs, even when repair is not possible or not profitable.

Complaints
The shipment should be checked on completeness, correctness and on defects. Complaints about delivered goods must be made in writing latest within eight (8) days after receipt of the goods, otherwise the goods are considered as accepted. Damages caused by transport are to be reported to the shipper and to us in writing, immediately after receipt of the goods.

Additional Provisions
The terms of sales and delivery are registered at the Chamber of Commerce of Groningen, The Netherlands. All disputes of any kind, originated in any geographical location, are to be settled by the court of law in Groningen, The Netherlands. The Dutch law is applicable.

Much attention has been given to the presentation of correct information. The pictures and illustrations have also been attended to with great care. Nevertheless, it is almost inevitable that differences with the delivered product may occur. Continuous development and advancing insights may also be reasons for any possible difference.

All prices in this catalog are exclusive of VAT Prices and specifications are subject to change.

© Schut Geometrische Meettechniek bv.
All rights for duplication and reproduction of this catalog are reserved.

C00.208.EN.20230516