

Schut for Precision

Micrometers / Micrometer heads



Accuracy of micrometers according DIN 863	
Measuring range (mm)	Max. permissible errors (µm)
0 - 25	4
25 - 50	4
50 - 75	5
75 - 100	5
100 - 125	6
125 - 150	6
150 - 175	7
175 - 200	7
200 - 225	8
225 - 250	8
250 - 275	9
275 - 300	9
300 - 325	10
325 - 350	10
350 - 375	11
375 - 400	11
400 - 425	12
425 - 450	12
450 - 475	13
475 - 500	13

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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: $\varnothing 6.5$ mm.
- DIN 863 T1.
- From measuring range 25 - 50 mm including setting gauge.
- Power supply: 1 battery type V357.



Item No.	Measuring range/mm	Accuracy mm	Price EUR
Not switchable:			
908.750	0 - 25	± 0.004	52.00
908.751	25 - 50	± 0.004	62.00
908.752	50 - 75	± 0.005	69.00
908.753	75 - 100	± 0.005	75.00
908.754	100 - 125	± 0.006	83.00
908.755	125 - 150	± 0.006	92.00
908.756	150 - 175	± 0.007	100.00
908.757	175 - 200	± 0.007	111.00
Switchable mm/inch and ABS/INC:			
908.758	0 - 25	± 0.004	57.00
908.759	25 - 50	± 0.004	67.00
908.760	50 - 75	± 0.005	74.00
908.761	75 - 100	± 0.005	81.00
908.762	100 - 125	± 0.006	89.00
908.763	125 - 150	± 0.006	98.00
908.764	150 - 175	± 0.007	99.00
908.765	175 - 200	± 0.007	117.00



908.766

Sets

Item No.	Measuring range/mm	Pieces	Price EUR
Not switchable:			
908.766	0 - 75	3	183.00
908.767	0 - 100	4	258.00
908.768	0 - 150	6	433.00
Switchable mm/inch and ABS/INC:			
908.769	0 - 75	3	190.00
908.770	0 - 100	4	288.00
908.771	0 - 150	6	480.00

Option

Item No.	Description	Price EUR
836.535	Spare battery	1.60

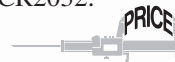
Digital micrometers

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: $\varnothing 6.5$ mm.
- Delivery in a case.
- Power supply: 1 battery type CR2032.



NEW

Item No.	Measuring range/mm	Accuracy mm	Price EUR
909.982	0- 25	± 0.003	45.00
909.983	25- 50	± 0.003	58.00
909.984	50- 75	± 0.004	66.00
909.985	75- 100	± 0.004	77.00
909.986	100- 125	± 0.005	98.00
909.987	125- 150	± 0.005	115.00
Option:			
495.157	Spare battery		0.50

Digital micrometers with double display

This patented micrometer distinguishes itself by its the two large displays on both sides of the instrument, which can also display 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 then check out its price.

- 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.
- DIN 863 T1.
- Delivery in a case.
- From measuring range 25 - 55 mm including setting gauge.
- 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	134.00
907.683	25- 55	± 0.004	165.00
907.684	50- 80	± 0.005	176.00
907.685	75- 105	± 0.005	198.00
907.686	100- 130	± 0.006	238.00
907.687	125- 155	± 0.006	262.00
907.688	150- 180	± 0.007	286.00
907.689	175- 205	± 0.007	310.00
Option:			
495.157	Spare battery		0.50

Digital micrometers with tolerance indication

These absolute digital micrometers are provided with both a tolerance and a hold function. They also have a large display.

- Measuring range: 0- 100 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: $\varnothing 6.5$ mm.
- DIN 863 T1.
- Power supply: 1 battery type V357.



907.570



Item No.	Measuring range/mm	Accuracy mm	Price EUR
907.570	0- 25	± 0.004	72.00
907.571	25- 50	± 0.004	77.00
907.572	50- 75	± 0.005	89.00
907.573	75- 100	± 0.005	102.00
Option:			
836.535	Spare battery		1.60

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.
- Delivery with adjustment tool.
- From measuring range 25 - 50 mm including setting gauge.



906.556



Sets (delivered incl. setting gauges)

Item No.	Measuring range/mm	Pieces	Price EUR
906.564	0- 75	3	130.00
906.565	0- 100	4	183.00
906.566	0- 150	6	318.00

Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.556	0- 25	± 0.01	38.50
906.557	25- 50	± 0.01	43.00
906.558	50- 75	± 0.01	48.00
906.559	75- 100	± 0.01	53.00
906.560	100- 125	± 0.02	63.00
906.561	125- 150	± 0.02	72.00
906.562	150- 175	± 0.02	87.00
906.563	175- 200	± 0.02	97.00

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.
- Ground and lapped tungsten carbide measuring faces.
- Varnished frame.
- Weight: 275 g.
- DIN 863 T1.
- Delivery in a case with an inspection report and a declaration of conformity.
- Power supply: 1 battery type V357.



Item No.	Measuring range/mm	Accuracy mm	Price EUR
293.821	0-25	±0.002	147.00
Option:			
836.535	Spare battery		1.60

Mitutoyo Absolute Digimatic Quick Micrometer

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.
- On/off switch.
- Reset/preset.
- Hold function.
- Max. measuring speed: any.
- 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: IP54 (only 293.661/666). (When using data output: IP40.)
- Conforms to factory standard.
- Delivery in a case.
- Power supply: 1 battery type V357.
- Also larger sizes available.



Item No.	Measuring range/mm	Accuracy mm	Measuring force/N	Digimatic output	Price EUR
293.661	0-30	±0.002	5 - 10	no	350.00
293.666	0-30	±0.002	5 - 10	yes	376.00
With adjustable measuring force:					
227.205	0-10	±0.002	2 - 10	yes	982.00
227.201	0-15	±0.002	0.5- 2.5	yes	1,019.00
Option:					
836.535	Spare battery				1.60

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



Digital fast adjustable external measuring instruments

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 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.
- Automatic switch-off.
- Reset.
- Non-rotating spindle.
- Tungsten carbide measuring faces: $\varnothing 6.5$ mm.
- Protection: IP65.
- Delivery in a case.
- Power supply: 1 battery type CR2032.



909.994

NEW



Item No.	Measuring range/mm	Accuracy mm	Price EUR
909.994	0- 25	± 0.003	148.00
909.995	25- 50	± 0.003	169.00
909.996	50- 75	± 0.004	190.00
909.997	75- 100	± 0.004	210.00
Options:			
495.157	Spare battery		0.50
909.686	USB interface		96.00
909.687	Footswitch		16.30

Digital micrometers IP65

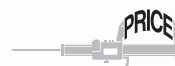
These IP65 protected micrometers are especially suitable for use in production environments.

- 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: $\varnothing 6.5$ mm.
- Protection: IP65.
- Delivery in a case.
- Power supply: 1 battery type CR2032.



909.988

NEW



Item No.	Measuring range/mm	Accuracy mm	Price EUR
909.988	0- 25	± 0.003	76.00
909.989	25- 50	± 0.003	93.00
909.990	50- 75	± 0.004	105.00
909.991	75- 100	± 0.004	120.00
Option:			
495.157	Spare battery		0.50

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.
- On/off switch.
- Automatic switch-off.
- Tungsten carbide measuring faces.
- Protection: IP65.
- DIN 863 T1.
- Power supply: 1 battery type V357.

Fast adjustable micrometers

- 1 revolution of the thimble = 2 mm.



909.549

NEW



909.545



Fast adjustable micrometers

Item No.	Measuring range/mm	Accuracy mm	Price EUR
909.549	0 - 25	±0.002	71.00
909.550	25 - 50	±0.002	87.00
909.551	50 - 75	±0.003	104.00
909.552	75 - 100	±0.003	120.00
909.556	100 - 125	±0.003	133.00
909.557	125 - 150	±0.003	149.00
909.558	150 - 175	±0.004	165.00
909.559	175 - 200	±0.004	181.00
909.560	200 - 225	±0.004	197.00
909.561	225 - 250	±0.004	213.00
909.562	250 - 275	±0.005	229.00
909.563	275 - 300	±0.005	245.00
Option: 836.535	Spare battery		1.60

Item No.	Measuring range/mm	Accuracy mm	Price EUR
909.545	0 - 25	±0.002	132.00
909.546	25 - 50	±0.002	148.00
909.547	50 - 75	±0.003	165.00
909.548	75 - 100	±0.003	181.00

Sets

Item No.	Measuring range/mm	Pieces	Price EUR
909.577	0 - 75	3	254.00
909.578	0 - 100	4	371.00
909.579	0 - 150	6	653.00

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.

- 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: $\varnothing 6.5$ mm (from measuring range 100 - 125 mm: $\varnothing 8$ mm).
- No-glare chrome finished frame with insulating grip.
- Protection: IP54.
- (When using data output: IP40.)
- DIN 863 T1.
- Delivery in a case with an inspection report and a declaration of conformity.
- Power supply: 1 battery type CR2032.



782.102



782.105



782.100



Item No.	Measuring range/mm	Accuracy mm	Price EUR
Without Opto-RS232C data output:			
782.100 ¹	0 - 30	±0.004	289.00
782.101	0 - 30	±0.004	299.00
782.102	25 - 50	±0.004	374.00
782.103	50 - 75	±0.005	429.00
782.104	75 - 100	±0.005	488.00
With Opto-RS232C data output:			
782.105	0 - 30	±0.004	333.00
782.106	25 - 50	±0.004	419.00
782.107	50 - 75	±0.005	502.00
782.108	75 - 100	±0.005	549.00
782.115	100 - 125	±0.006	717.00
782.116	125 - 150	±0.006	729.00
782.117	150 - 175	±0.007	740.00
782.118	175 - 200	±0.007	753.00
782.119	200 - 225	±0.008	797.00
782.122	225 - 250	±0.008	814.00
782.123	250 - 275	±0.009	830.00
782.124	275 - 300	±0.009	865.00
Option:			
495.157	Spare battery		0.50

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

Mitutoyo Digimatic and *QuantuMike* micrometers IP65

These digital *Coolant Proof* micrometers have an IP65 classification and are therefore not only resistant to dust but can also withstand water jets. The large and clear LCD display with 7.5 mm high digits enables easy read-out. New in this line is the revolutionary *QuantuMike* with a pitch of 2 mm. The spindle feed is therefore 4x as fast. This way, the *QuantuMike* offers you a reduction in costs.

- Measuring range: 0-100 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*).
- Locking screw.
- Tungsten carbide measuring faces.
- Varnished frame with insulating grip.
- Protection: IP65.
- Conforms to factory standard.
- Delivery in a case with an inspection report and a declaration of conformity.
- Power supply: 1 battery type V357.
- The standard model with data output (293.230-293.233) is available up to 300 mm, and is also available in sets.



Item No.	Measuring range/mm	Accuracy mm	Digimatic output	Price EUR
293.240	0 - 25	±0.001	no	192.00
293.241	25 - 50	±0.001	no	267.00
293.242	50 - 75	±0.001	no	323.00
293.243	75 - 100	±0.002	no	367.00
293.230	0 - 25	±0.001	yes	263.00
293.231	25 - 50	±0.001	yes	325.00
293.232	50 - 75	±0.001	yes	406.00
293.233	75 - 100	±0.002	yes	458.00
293.234 ¹	0 - 25	±0.001	yes	294.00
293.244 ¹	0 - 25	±0.001	no	203.00

QuantuMike:

293.145	0 - 25	±0.001	no	209.00
293.146	25 - 50	±0.001	no	288.00
293.147	50 - 75	±0.001	no	345.00
293.148	75 - 100	±0.002	no	391.00
293.140	0 - 25	±0.001	yes	296.00
293.141	25 - 50	±0.001	yes	365.00
293.142	50 - 75	±0.001	yes	442.00
293.143	75 - 100	±0.002	yes	503.00

Options:

836.535	Spare battery	1.60
105.662 ²	Digimatic data cable, 1 m	75.00
105.663 ²	Digimatic data cable, 2 m	85.00
106.380 ²	USB Input Tool Direct cable, 2 m	117.00
102.791 ²	U-WAVE data cable	97.00

¹ With ratchet thimble.

² With data switch.

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.
- Locking screw.
- Tungsten carbide measuring faces.
- Varnished frame with insulating grip.
- Absolute rotary sensor.
- Weight: 400 g.
- Conforms to factory standard.
- Delivery in a case with an inspection report.
- Power supply: 1 battery type CR2032.



Item No.	Measuring range/mm	Accuracy mm	Price EUR
293.100	0-25	±0.0005	1,428.00
Options:			
495.157	Spare battery		0.50
105.662 ¹	Digimatic data cable, 1 m		75.00
105.663 ¹	Digimatic data cable, 2 m		85.00
106.380 ¹	USB Input Tool Direct cable, 2 m		117.00
102.791 ¹	U-WAVE data cable		97.00

¹ With data switch.



Digital external measuring instruments with constant measuring force

Because the digital external measuring instruments are equipped with a non-rotating spindle and a constant measuring force, they are extremely suitable for long-term use which requires high accuracy.

- Measuring range: 0-25 mm.
- Resolution: 0.001 mm.
- Accuracy: ± 0.002 mm.
- Repeatability: 0.001 mm.
- mm/inch conversion.
- USB data output.
- Supplied with various measuring programs:
 1. ABS/INC measurement and hold function.
 2. Preservation of the min/max value.
 3. Set tolerance limits and indication when exceeding.
 4. Statistics:
 - number of measurements, average value, deviation, measuring range, and lowest and highest measured value.
 5. Calibration:
 - Set values of comparison and tolerance with the control switches of the Microstat.
- Standard measuring force: 8 N, also available with 4 N (LP).
- Various other models available.
- Delivery in a case, including AC adapter.
- Power supply: 1 rechargeable battery.



829.150

Item No.	Anvil	Spindle	Price EUR
829.150	flat, 8 mm	flat, 8 mm	1,589.00
829.151	ball	ball	1,606.00
829.152	ball	flat, 8 mm	1,606.00
829.154	flat, 16 mm	flat, 16 mm	1,666.00

Mitutoyo Quick Mini digital quick thickness gauge

The measuring instrument to always carry with you. Pull back the switch, insert the sample, release the switch 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: $\varnothing 9$ mm.
- Pin measuring face: $\varnothing 10$ mm.
- Delivery in a case.
- Power supply: 1 battery type V357.



Item No.	Measuring range/mm	Price EUR
700.119	0-12	113.00
Option:		
836.535	Spare battery	1.60

Micrometers

- Measuring range: 0 - 300 mm.
- Graduation: 0.01 mm.
- Friction thimble.
- Tungsten carbide measuring faces: $\phi 6.5$ mm.
- DIN 863 T1.
- From measuring range 25 - 50 mm including setting gauge.



Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.000	0 - 25	± 0.004	15.50
906.001	25 - 50	± 0.004	17.00
906.002	50 - 75	± 0.005	18.90
906.003	75 - 100	± 0.005	20.70
906.004	100 - 125	± 0.006	24.00
906.005	125 - 150	± 0.006	28.10
906.006	150 - 175	± 0.007	32.90
906.007	175 - 200	± 0.007	37.00
906.008	200 - 225	± 0.008	41.00
906.009	225 - 250	± 0.008	45.00
906.010	250 - 275	± 0.009	48.00
906.011	275 - 300	± 0.009	53.00

Sets

Item No.	Measuring range/mm	Price EUR
906.055	0 - 75	60.00
906.056	0 - 100	72.00
906.057	0 - 150	124.00
906.058	150 - 300	256.00
906.059	0 - 300	381.00

Model for left- and right-handed use:			
907.167	0 - 25	± 0.004	21.60
907.168	25 - 50	± 0.004	18.80
907.169	50 - 75	± 0.005	25.60
907.170	75 - 100	± 0.005	22.70



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: $\varnothing 6.5$ mm.
- DIN 863 T1.
- Delivery incl. adjustment tool.
- From measuring range 25-50 mm including setting gauge.



906.280



Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.280	0- 25	± 0.004	48.00
906.281	25- 50	± 0.004	52.00
906.282	50- 75	± 0.005	56.00
906.283	75-100	± 0.005	60.00
906.284	100-125	± 0.006	65.00
906.285	125-150	± 0.006	73.00
906.286	150-175	± 0.007	77.00
906.287	175-200	± 0.007	84.00

Fast adjustable micrometers

Fast adjustable micrometers because one revolution results 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: $\varnothing 8$ mm.
- DIN 863 T1.
- From measuring range 25-50 mm including setting gauge.



907.000

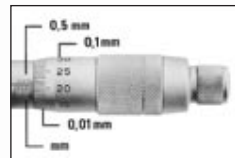


Item No.	Measuring range/mm	Accuracy mm	Price EUR
907.000	0- 25	± 0.004	38.10
907.001	25- 50	± 0.004	42.00
907.002	50- 75	± 0.005	48.00
907.003	75-100	± 0.005	52.00
907.004	100-125	± 0.006	61.00
907.005	125-150	± 0.006	69.00
907.006	150-175	± 0.007	77.00
907.007	175-200	± 0.007	84.00



TESA Isomaster micrometers

- Measuring range: 0 - 300 mm.
- Graduation: 0.01 mm.
- Tungsten carbide measuring faces:
 0 - 100 mm: $\varnothing 6.5$ mm,
 100 - 300 mm: $\varnothing 8$ mm.
- No-glare chrome finished frame and thimble (0 - 100 mm), or varnished frame and chrome finished thimble (100 - 300 mm).
- DIN 863 T1.
- Delivery in a case with adjustment tool, an inspection report and a declaration of conformity.



Item No.	Measuring range/mm	Accuracy mm	Price EUR
779.005	0 - 25	± 0.004	163.00
779.006	25 - 50	± 0.004	240.00
779.007	50 - 75	± 0.005	262.00
779.008	75 - 100	± 0.005	299.00
779.009	100 - 125	± 0.006	423.00
779.010	125 - 150	± 0.006	450.00

Item No.	Measuring range/mm	Accuracy mm	Price EUR
779.011	150 - 175	± 0.007	475.00
779.012	175 - 200	± 0.007	509.00
779.013	200 - 225	± 0.008	553.00
779.014	225 - 250	± 0.008	598.00
779.015	250 - 275	± 0.009	618.00
779.016	275 - 300	± 0.009	664.00

Tesamaster micrometers

- Measuring range: 0 - 250 mm.
- Vernier: 0.001 mm, parallax-free.
- Counter resolution: 0.1 mm.
- Tungsten carbide measuring faces:
 0 - 100 mm: $\varnothing 6.5$ mm,
 100 - 250 mm: $\varnothing 8$ mm.
- No-glare chrome finished frame and thimble (0 - 100 mm), or varnished frame and chrome finished thimble (100 - 250 mm).
- DIN 863 T1.
- Delivery in a case with adjustment tool, an inspection report and a declaration of conformity.

- Also fast adjustable models available (with a pitch of 1 mm).



Item No.	Measuring range/mm	Accuracy mm	Price EUR
779.206	0 - 25	± 0.004	256.00
779.207	25 - 50	± 0.004	332.00
779.208	50 - 75	± 0.005	348.00
779.209	75 - 100	± 0.005	376.00
779.210	100 - 125	± 0.006	505.00
779.211	125 - 150	± 0.006	571.00

Item No.	Measuring range/mm	Accuracy mm	Price EUR
779.212	150 - 175	± 0.007	596.00
779.213	175 - 200	± 0.007	638.00
779.214	200 - 225	± 0.008	682.00
779.215	225 - 250	± 0.008	728.00

Mitutoyo micrometers with a constant measuring force

Mitutoyo micrometers with a constant measuring force due to a special combined thimble construction. The insulating grip is especially designed for maximum grip with one-handed operation.

- Measuring range: 0- 50 mm.
- Graduation: 0.01 mm or vernier 0.001 mm.
- Accuracy: ± 0.002 mm.
- Measuring force: 5- 10 N.
- Locking screw.
- Tungsten carbide measuring faces: $\varnothing 6.35$ mm.
- No-glare chrome finished frame with insulating grip.
- Conforms to factory standard.
- Delivery in a case with an inspection report.



102.707



102.701

Item No.	Measuring range/mm	Graduation mm	Accuracy mm	Price EUR
102.701	0-25	0.01	± 0.002	55.00
102.702	25-50	0.01	± 0.002	82.00
102.707	0-25	0.001	± 0.002	75.00
102.708	25-50	0.001	± 0.002	123.00

Mitutoyo lightweight micrometers

Mitutoyo micrometers in a lightweight workshop design.

- Measuring range: 0- 150 mm.
- Graduation: 0.01 mm.
- Measuring force: 5- 10 N.
- Locking screw.
- Tungsten carbide measuring faces: $\varnothing 6.35$ mm.
- Varnished frame with insulating grip.
- DIN 863 T1.
- Delivery in a case incl. adjustment tool and setting gauge (except 103.137).
- Available up to 1000 mm.



103.137



Item No.	Measuring range/mm	Accuracy mm	Price EUR
103.137	0- 25	± 0.002	44.00
103.138	25- 50	± 0.002	64.00
103.139	50- 75	± 0.002	84.00
103.140	75- 100	± 0.003	91.00
103.141	100- 125	± 0.003	143.00
103.142	125- 150	± 0.003	159.00

Sets (delivered incl. setting gauges)

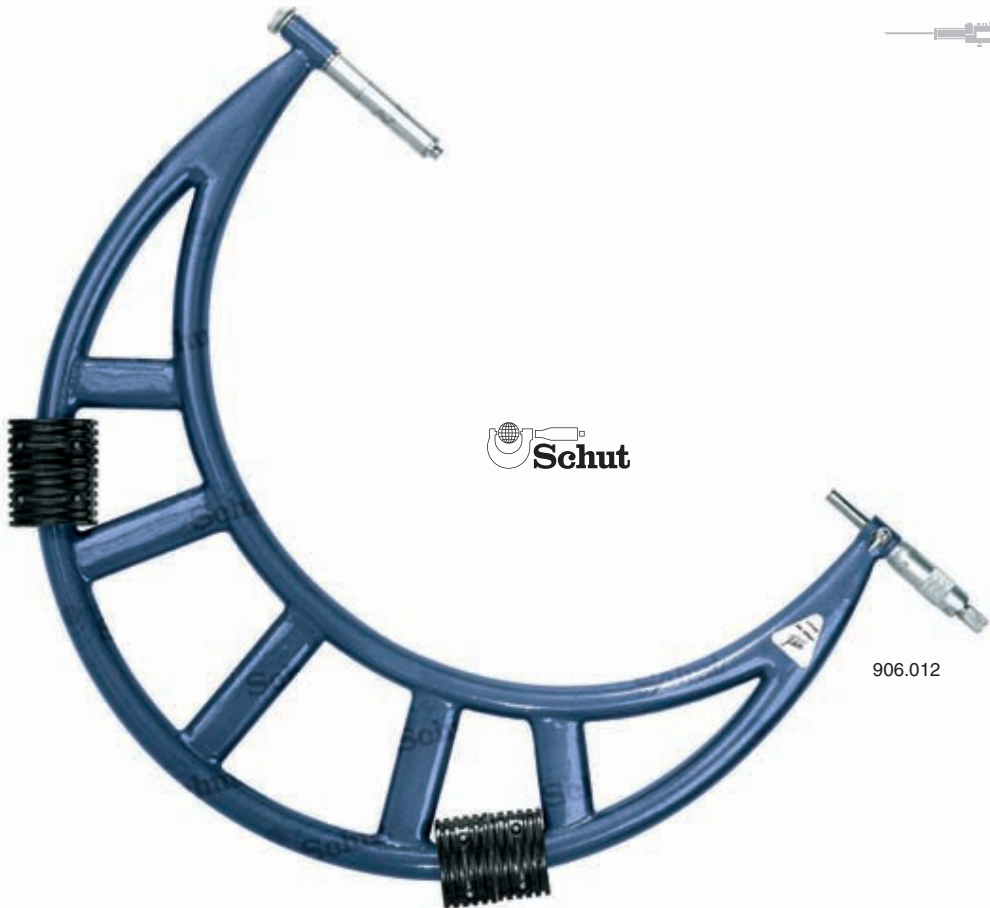
Item No.	Measuring range/mm	Pieces	Price EUR
103.927	0- 75	3	219.00
103.913	0- 150	6	467.00
103.914	0- 300	12	1,826.00

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: $\varnothing 8$ mm.
- No-glare chrome finished thimble.
- DIN 863 T3.
- With two setting gauges.

Item No.	Measuring range/mm	Accuracy mm	Price EUR
Measuring span 100 mm:			
906.012	300 - 400	± 0.011	175.00
906.013	400 - 500	± 0.013	198.00
906.014	500 - 600	± 0.015	233.00
906.015	600 - 700	± 0.016	270.00
906.016	700 - 800	± 0.018	329.00
906.017	800 - 900	± 0.020	383.00
906.018	900 - 1000	± 0.020	429.00
Measuring span 200 mm:			
906.019	1000 - 1200	± 0.020	917.00
906.020	1200 - 1400	± 0.024	980.00
906.021	1400 - 1600	± 0.028	1,091.00
906.022	1600 - 1800	± 0.031	1,158.00
906.023	1800 - 2000	± 0.034	1,226.00



Delivery ex Groningen, Netherlands

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.
- Delivery incl. setting gauges and interchangeable anvils (increasing per 25 mm).



906.290



Item No.	Measuring range/mm	Accuracy mm	Number of anvils	Number of setting gauges	Price EUR
906.290	0- 50	±0.004	2	1	48.00
906.294	0- 100	±0.005	4	3	95.00
906.292	0- 150	±0.006	6	5	121.00
906.291	50- 100	±0.005	2	2	63.00
906.295	100- 200	±0.007	4	4	138.00
906.293	150- 300	±0.009	6	6	152.00
906.296	200- 300	±0.009	4	4	148.00

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.

Specifications dial indicator:

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



907.015

Item No.	Measuring range/mm	Accuracy mm	Price EUR
907.015	0- 100	±0.006	146.00
907.016	100- 200	±0.007	208.00
907.017	200- 300	±0.008	219.00
907.018	300- 400	±0.009	311.00
907.019	400- 500	±0.010	361.00
907.020	500- 600	±0.011	391.00
907.021	600- 700	±0.012	462.00
907.022	700- 800	±0.013	545.00
907.023	800- 900	±0.014	601.00
907.024	900- 1000	±0.015	685.00



TESA Isomaster micrometers with a large measuring range

Micrometers with interchangeable anvils and a measuring span of 100 mm. The anvils are adjusted and numbered in sets, so they can be changed without resetting the micrometer. Therefore only one setting gauge per micrometer is needed.

- Measuring range: 0 - 500 mm.
- Graduation: 0.01 mm.
- Max. measuring force: 10 N.
- Tungsten carbide measuring faces: $\varnothing 8$ mm.
- 0 - 500 mm: cast iron frame,
≥ 500 mm: tubular steel frame with insulating grips.
- DIN 863 T3.
- Delivery in a case with 4 anvils (779.069) and a declaration of conformity.
- Available on request up to 1500 mm.

Adjustable dial indicator element

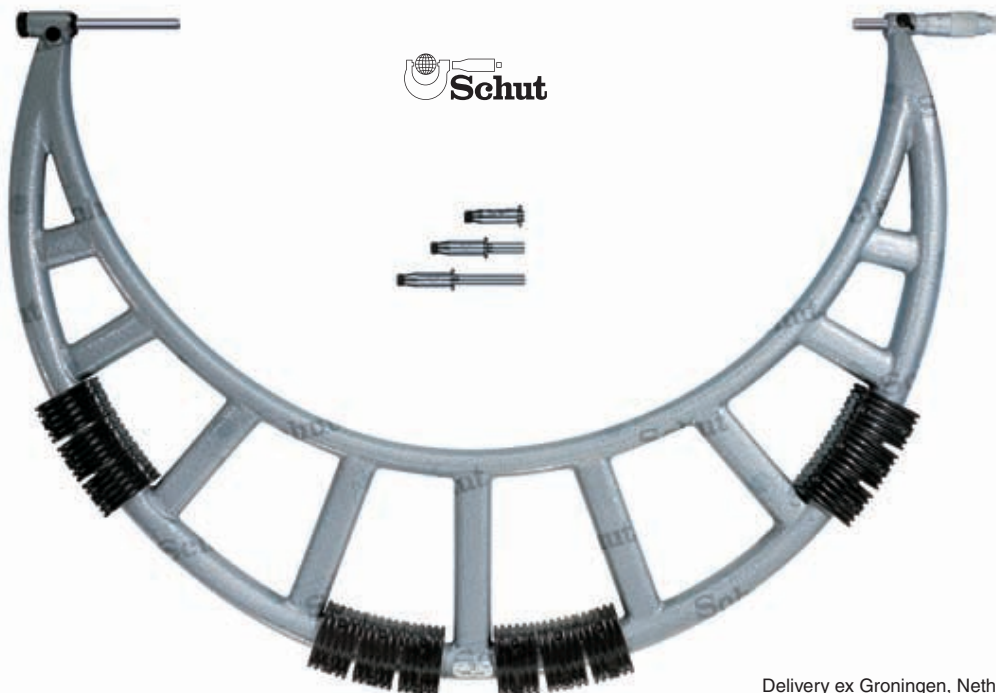
Can replace the interchangeable anvils. Facilitates finding the reversal point. The spring in the element ensures a constant measuring force.

- Measuring range: ± 1.5 mm.
- Graduation: 0.01 mm.
- Clamping stem: $\varnothing 11$ mm.

Item No.	Measuring range/mm	Accuracy mm	Price EUR
779.021	0 - 100	± 0.006	914.00
779.022	100 - 200	± 0.007	1,046.00
779.023	200 - 300	± 0.008	1,219.00
779.024	300 - 400	± 0.009	1,411.00
779.025	400 - 500	± 0.010	1,591.00
Options:			
779.069	Set of 4 interchangeable anvils		595.00
779.070	Dial indicator element		887.00



779.070



Delivery ex Groningen, Netherlands

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: $\varnothing 8$ mm.
- 0 - 300 mm: cast iron frame,
300 - 1000 mm: tubular steel frame with insulating grips.
- Protection: IP65.
- Delivery in a case with setting gauges and interchangeable anvils.
- Power supply: 1 battery type V357.

**NEW**

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	170.00
909.581	100 - 200	± 0.007	4	4	182.00
909.582	200 - 300	± 0.008	4	4	202.00
909.583	300 - 400	± 0.009	4	2	237.00
909.584	400 - 500	± 0.010	4	2	259.00
909.585	500 - 600	± 0.010	4	2	291.00
909.586	600 - 700	± 0.011	4	2	333.00
909.587	700 - 800	± 0.012	4	2	377.00
909.588	800 - 900	± 0.013	4	2	429.00
909.589	900 - 1000	± 0.013	4	2	470.00
Option: 836.535 Spare battery					1.60

TESA Micromaster digital micrometers

Digital micrometers with interchangeable anvils, a measuring span of 100 mm and an RS232C data output. The anvils are adjusted and numbered in sets, so they can be changed without resetting the micrometer. Therefore only one setting gauge per micrometer is needed.

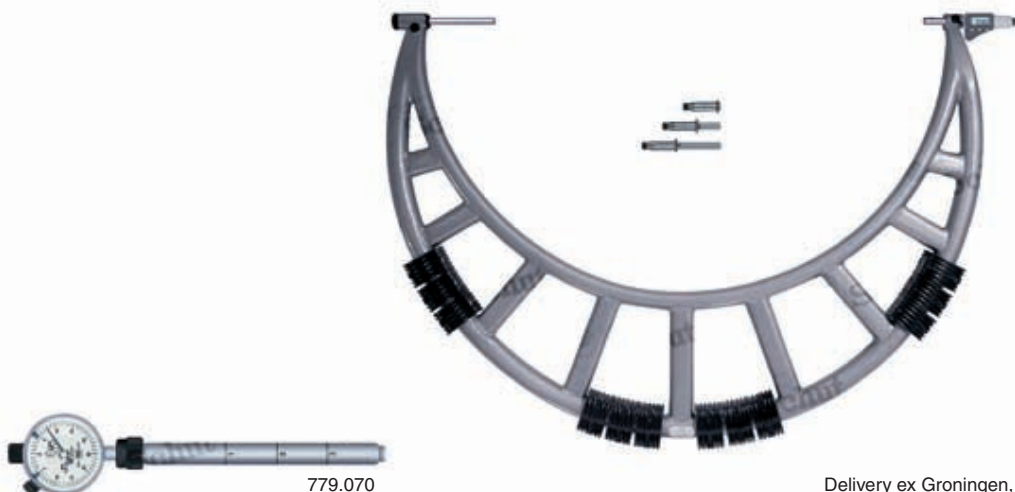
- Measuring range: 0 - 500 mm.
- Resolution: 0.001 mm.
- mm/inch conversion.
- ABS/INC switchable.
- Opto-RS232C data output.
- Max. measuring force: 10 N.
- Tungsten carbide measuring faces: $\varnothing 8$ mm.
- 0 - 500 mm: cast iron frame,
≥ 500 mm: tubular steel frame with insulating grips.
- DIN 863 T3.
- Delivery in a case with 4 anvils (779.069), an inspection report and a declaration of conformity.
- Power supply: 1 battery type CR2032.
- Available on request up to 1500 mm.

Adjustable dial indicator element

Can replace the interchangeable anvils. Facilitates finding the reversal point. The spring in the element ensures a constant measuring force.

- Measuring range: ± 1.5 mm.
- Graduation: 0.01 mm.
- Clamping stem: $\varnothing 11$ mm.

Item No.	Measuring range/mm	Accuracy mm	Price EUR
782.610	0 - 100	± 0.006	1,066.00
782.611	100 - 200	± 0.007	1,165.00
782.612	200 - 300	± 0.008	1,290.00
782.613	300 - 400	± 0.009	1,423.00
782.614	400 - 500	± 0.010	1,529.00
Options:			
495.157	Spare battery		0.50
781.887	Opto-RS232C cable 9p (2m)		114.00
779.069	Set of 4 interchangeable anvils		595.00
779.070	Dial indicator element		887.00



Delivery ex Groningen, Netherlands

Micrometers with dial indicator

Micrometers with adjustable anvil and clamping shaft for a dial indicator. Especially suitable for Go/NoGo judgement 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.
- Can also be used in combination with various other dial indicators with clamping stem \varnothing 8 mm.



Item No.	Measuring range/mm	Accuracy mm	Price EUR
907.008	0- 25	± 0.004	119.00
907.009	25- 50	± 0.004	127.00
907.010	50- 75	± 0.005	135.00
907.011	75-100	± 0.005	142.00
907.012	100-125	± 0.006	150.00
907.013	125-150	± 0.006	124.00
907.014	150-175	± 0.007	130.00

Mini-micrometer

- Measuring range: 0- 15 mm.
- Graduation: 0.01 mm.
- Without friction thimble.
- Dimensions:
total length: 70 mm,
throat depth: 14 mm.

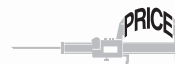


Item No.	Measuring range/mm	Price EUR
906.180	0- 15	20.10

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 prolonged anvil.

- Measuring range: 0- 50 mm.
- Graduation: 0.01 mm.
- Accuracy: ± 0.004 mm.
- Tungsten carbide measuring faces.
- Delivery incl. adjustment tool and prolonged anvil.



Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.567	0- 50	± 0.004	58.00

Tolerance micrometers with precision dial indicator

Because of the retractable anvil, the fine adjustment and the tolerance markers 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.



Item No.	Measuring range/mm	Graduation mm	Vernier thimble/mm	Price EUR
906.568	0- 25	0.001	0.002	179.00
906.597	25- 50	0.001	–	206.00
906.598	50- 75	0.001	–	233.00
906.599	75- 100	0.001	–	271.00
With protection IP54:				
906.569	0- 25	0.001	–	240.00
906.570	25- 50	0.001	–	265.00
906.571	50- 75	0.001	–	283.00
906.614	75- 100	0.001	–	304.00

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.



Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.288	0- 25	± 0.003	59.00
906.289	25- 50	± 0.003	72.00

Snap gauges with dial indicator

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

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

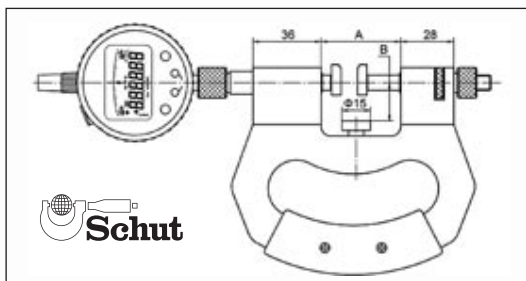


906.237



NEW

Item No.	Measuring range/mm	Length/mm		Price EUR
		A	B	
906.237	0- 25	42	20	155.00
906.238	25- 50	69	32.5	173.00
906.239	50- 75	94	45	195.00
906.240	75- 100	119	57.5	219.00
906.241	100- 125	144	70	237.00
906.242	125- 150	169	82.5	256.00
906.243	150- 175	194	95	274.00
906.244	175- 200	219	107.5	292.00
906.245	200- 225	244	120	310.00
906.246	225- 250	269	132.5	329.00
906.247	250- 275	294	145	347.00
906.248	275- 300	319	157.5	365.00



Digital vertical micrometers

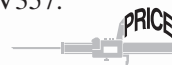
Digital vertical micrometers for easy reading, for example, when measuring the thickness of metal or plastic sheet. These micrometers have an IP65 classification and are therefore not only resistant to dust but can also withstand water jets.

- 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: $\varnothing 6.5$ mm.
- Protection: IP65.
- Power supply: 1 battery type V357.



909.458

NEW

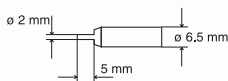


Item No.	Measuring range/mm	Price EUR
909.458	0- 25	154.00
909.459	25- 50	181.00
Option: 836.535	Spare battery	1.60

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.
- Measuring pins: $\varnothing 2 \times 5$ mm.



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



NEW



909.591

Analog

Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.135	0- 25	± 0.004	45.00
906.136	25- 50	± 0.004	45.00
906.137	50- 75	± 0.005	48.00
906.119	75- 100	± 0.005	62.00
909.320	100- 125	± 0.006	75.00
909.321	125- 150	± 0.006	90.00
909.322	150- 175	± 0.007	100.00

Digital

Item No.	Measuring range/mm	Accuracy mm	Price EUR
909.591	0- 25	± 0.002	141.00
909.592	25- 50	± 0.002	150.00
909.593	50- 75	± 0.003	160.00
909.594	75- 100	± 0.003	170.00
909.595	100- 125	± 0.003	179.00
909.596	125- 150	± 0.003	185.00
909.597	150- 175	± 0.004	195.00

Option:

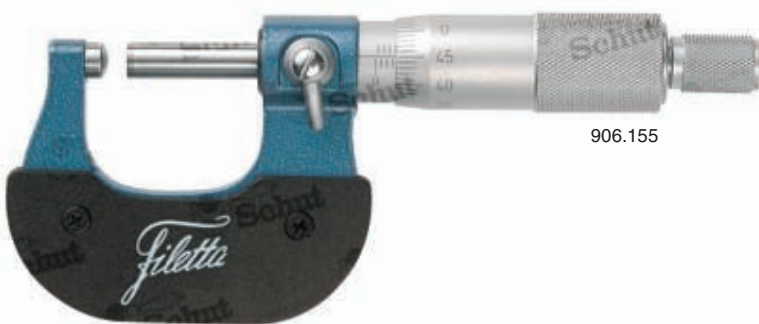
836.535 Spare battery 1.60



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.
- 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



NEW



909.598

Analog

Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.155	0- 25	±0.004	22.00
907.044	25- 50	±0.004	27.80
907.045	50- 75	±0.005	28.00
907.046	75- 100	±0.005	55.00

Digital

Item No.	Measuring range/mm	Accuracy mm	Price EUR
909.598	0- 25	±0.002	124.00
909.599	25- 50	±0.002	136.00
909.600	50- 75	±0.003	150.00
909.601	75- 100	±0.003	165.00

Option:

836.535 Spare battery 1.60



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.

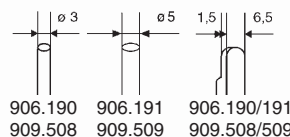
- Measuring range: 0-50 mm.
- Analog: graduation 0.01 mm, digital: resolution 0.001 mm.
- Accuracy: ± 0.004 mm.
- Tungsten carbide measuring face: $\varnothing 6.5$ mm.
- Delivery incl. 2 tungsten carbide anvils.

Digital

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



906.190



NEW



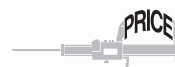
909.508

Analog

Item No.	Measuring range/mm	Price EUR
906.190	0-25	81.00
906.191	25-50	87.00

Digital

Item No.	Measuring range/mm	Price EUR
909.508	0-25	147.00
909.509	25-50	163.00
Option:		
836.535	Spare battery	1.60



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: \varnothing 1.8 mm.
- Tungsten carbide measuring faces.
- Protection: IP65.
- Power supply: 1 battery type V357.



909.684

PRICE

Item No.	Measuring range/mm	Accuracy mm	Price EUR
909.684	0-25	± 0.005	138.00
909.685	25-50	± 0.005	150.00
Option:			
836.535	Spare battery		1.60

NEW

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.
- Power supply: 1 battery type V357.



909.676

PRICE

Item No.	Measuring range/mm	Accuracy mm	Price EUR
909.676	0- 25	± 0.006	157.00
909.677	25- 50	± 0.006	170.00
909.678	50- 75	± 0.007	182.00
909.679	75-100	± 0.007	202.00
909.680	100-125	± 0.009	219.00
909.681	125-150	± 0.009	239.00
909.682	150-175	± 0.010	260.00
909.683	175-200	± 0.010	281.00
Option:			
836.535	Spare battery		1.60

NEW



Gear pitch micrometers

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

- Measuring range: 0-200 mm.
- Analog: graduation 0.01 mm, digital: resolution 0.001 mm.
- Non-rotating spindle: $\varnothing 8$ mm.
- Measuring faces: stainless steel (HRC 52 - 54).

Digital

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



906.580



909.777

NEW



Item No.	Measuring range/mm	Accuracy mm	Measuring faces \varnothing /mm	Price EUR
Analog:				
906.580	0- 25	± 0.006	20	98.00
906.581	25- 50	± 0.006	20	105.00
906.582	50- 75	± 0.007	20	108.00
906.583	75-100	± 0.007	20	116.00
906.584	100-125	± 0.009	30	130.00
906.585	125-150	± 0.009	30	139.00
906.586	150-175	± 0.010	30	149.00
906.587	175-200	± 0.010	30	159.00
Digital:				
909.777	0- 25	± 0.006	20	157.00
909.778	25- 50	± 0.006	20	170.00
909.779	50- 75	± 0.007	20	182.00
909.780	75-100	± 0.007	20	202.00
909.781	100-125	± 0.009	30	219.00
909.782	125-150	± 0.009	30	239.00
909.783	150-175	± 0.010	30	260.00
909.784	175-200	± 0.010	30	281.00
Option:				
836.535	Spare battery			1.60



Universal micrometers

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

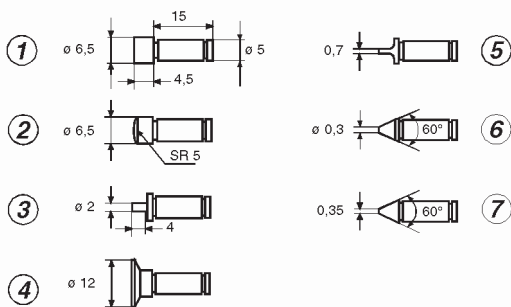
- Measuring range: 0-200 mm.
- Analog: graduation 0.01 mm, digital: resolution 0.001 mm.
- Non-rotating spindle.
- Insert shaft: $\varnothing 5$ mm.

Digital

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



NEW



No.	Item No.	Description measuring faces	Price EUR
Measuring inserts, per pair:			
①	906.788	flat	12.30
②	906.789	spherical	14.80
③	906.790	small	22.00
④	906.791	disc	22.20
⑤	906.792	knife/flat	29.60
⑥	906.793	point	22.20
⑦	906.794	knife	29.10
	906.795	Set of 7 pairs	116.00

Item No.	Measuring range/mm	Accuracy mm	Price EUR
Analog, without measuring inserts:			
906.780	0- 25	± 0.004	63.00
906.781	25- 50	± 0.004	64.00
906.782	50- 75	± 0.005	77.00
906.783	75-100	± 0.005	83.00
906.784	100-125	± 0.008	99.00
906.785	125-150	± 0.008	111.00
906.786	150-175	± 0.009	113.00
906.787	175-200	± 0.009	134.00
Digital, without measuring inserts:			
909.785	0- 25	± 0.004	144.00
909.786	25- 50	± 0.004	144.00
909.787	50- 75	± 0.005	150.00
909.788	75-100	± 0.005	160.00
909.789	100-125	± 0.008	171.00
909.790	125-150	± 0.008	182.00
909.791	150-175	± 0.009	194.00
909.792	175-200	± 0.009	207.00
Option:			
836.535	Spare battery		1.60

Deep throat micrometers

Micrometers with a deep throat 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: $\varnothing 6.5$ mm.

Digital

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



907.068



909.694



Schut

NEW



Item No.	Measuring range/mm	Accuracy mm	Throat depth/mm	Price EUR
Analog:				
907.068	0-25	± 0.004	50	47.00
907.069	25-50	± 0.004	50	53.00
907.070	0-25	± 0.005	100	50.00
907.071	25-50	± 0.005	100	57.00
907.072	0-25	± 0.006	150	60.00
907.073	25-50	± 0.006	150	66.00
Digital:				
909.694	0-25	± 0.004	50	147.00
909.695	25-50	± 0.004	50	152.00
909.696	0-25	± 0.005	100	149.00
909.697	25-50	± 0.005	100	155.00
909.698	0-25	± 0.006	150	159.00
909.699	25-50	± 0.006	150	166.00
Option:				
836.535	Spare battery			1.60

Brake disc micrometers

Micrometers especially 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 faces.
- Throat depth: 88 mm.

Digital

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



907.056



NEW



909.793

Analog

Item No.	Measuring range/mm	Accuracy mm	Price EUR
907.056	7.6 - 33	±0.004	35.20
907.057	25 - 50	±0.004	50.00

Digital

Item No.	Measuring range/mm	Accuracy mm	Price EUR
909.793	7.6 - 33	±0.004	131.00
909.794	25 - 50	±0.004	140.00
Option:			
836.535	Spare battery		1.60



Sheet metal micrometers

Micrometers especially 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: $\varnothing 6.5$ mm.



Item No.	Measuring range/mm	Accuracy mm	Measuring faces	Price EUR
907.058	0-15	± 0.004	flat/flat	56.00
907.059	0-25	± 0.004	flat/flat	64.00
907.099	0-15	± 0.004	spherical/flat	53.00
907.100	0-25	± 0.004	spherical/flat	64.00

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: $\varnothing 60$ mm.



Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.588	0- 25	± 0.008	125.00
906.589	25- 50	± 0.008	119.00
906.590	50- 75	± 0.010	155.00
906.591	75- 100	± 0.010	192.00



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: $\varnothing 5 \times 15$ mm.
- Tungsten carbide, ball-tipped measuring faces.

Digital

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



907.081



909.859

NEW

PRICE



Schut

Item No.	Ball \varnothing /mm	Module	Price EUR
Measuring inserts, per pair:			
907.088	1.0	0.6-0.65	48.00
907.089	1.5	0.9-1.0	48.00
907.090	2.0	1.25	45.00
907.091	2.5	1.5	48.00
907.092	3.0	1.75	45.00
907.093	3.5	2	45.00
907.094	4.0	2.25	48.00
907.095	4.5	2.5	48.00
907.096	5.0	2.75	48.00
907.097	6.0	3.5	45.00
907.098	Set 907.088 - 907.097		434.00

Item No.	Measuring range/mm	Accuracy mm	Price EUR
Analog, without measuring inserts:			
907.081	0 - 25	± 0.004	65.00
907.082	25 - 50	± 0.004	73.00
907.083	50 - 75	± 0.005	81.00
907.084	75 - 100	± 0.005	88.00
907.085	100 - 125	± 0.006	96.00
907.086	125 - 150	± 0.006	96.00
907.087	150 - 175	± 0.007	111.00
Digital, without measuring inserts:			
909.859	0 - 25	± 0.004	144.00
909.860	25 - 50	± 0.004	150.00
909.861	50 - 75	± 0.005	156.00
909.862	75 - 100	± 0.005	163.00
909.863	100 - 125	± 0.006	169.00
909.864	125 - 150	± 0.006	176.00
909.865	150 - 175	± 0.007	182.00
Option:			
836.535	Spare battery		1.60

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: $\varnothing 6.5$ 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° .
- Delivery 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



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	111.00	909.866	195.00
906.161	5 - 20	± 0.004	115.00	909.867	199.00
906.162	20 - 35	± 0.005	138.00	909.868	218.00
906.163	35 - 50	± 0.005	170.00	909.869	245.00
906.164	50 - 65	± 0.006	182.00	909.870	248.00
906.165	65 - 80	± 0.006	197.00	909.871	261.00
907.060	80 - 95	± 0.007	212.00	909.872	274.00
For 5-fluted objects (108°), analog:				Digital:	
906.166	5 - 25	± 0.004	114.00	909.873	198.00
906.167	25 - 45	± 0.005	147.00	909.874	226.00
906.168	45 - 65	± 0.006	170.00	909.875	244.00
906.169	65 - 85	± 0.007	197.00	909.876	267.00
907.061	85 - 105	± 0.008	224.00	909.877	290.00
For 7-fluted objects (128°), analog:				Digital:	
906.170	5 - 25	± 0.004	91.00	909.878	198.00
906.171	25 - 45	± 0.005	147.00	909.879	226.00
906.172	45 - 65	± 0.006	158.00	909.880	244.00
906.173	65 - 85	± 0.007	197.00	909.881	267.00
Option:					
836.535	Spare battery				1.60

Setting standards

Item No.	\varnothing mm	Price EUR
909.323	5	8.60
909.324	20	23.40
909.325	25	25.80
909.326	35	29.60
909.327	45	28.60
909.328	50	35.80
909.329	65	47.00
909.330	80	63.00
909.331	85	68.00



909.326

Micrometers with pointed measuring faces

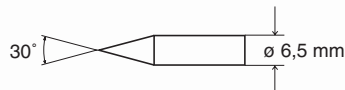
- Measuring range: 0 - 100 mm.
- Analog: graduation 0.01 mm, digital: resolution 0.001 mm.

Digital

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



906.145



909.643

NEW



Analog

Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.145	0 - 25	±0.004	45.00
906.146	25 - 50	±0.004	48.00
906.147	50 - 75	±0.005	52.00
906.199	75 - 100	±0.005	62.00

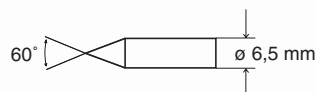
Digital

Item No.	Measuring range/mm	Accuracy mm	Price EUR
909.643	0 - 25	±0.004	141.00
909.644	25 - 50	±0.004	150.00
909.645	50 - 75	±0.005	160.00
909.646	75 - 100	±0.005	170.00
Option:			
836.535	Spare battery		1.60



Micrometers with one pointed measuring face

- Measuring range: 0 - 50 mm.
- Graduation: 0.01 mm.



Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.151	0 - 25	±0.004	45.00
906.153	25 - 50	±0.004	48.00



Micrometers with lamellar measuring faces

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

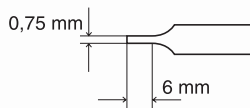
- Measuring range: 0- 175 mm.
- Analog: graduation 0.01 mm, digital: resolution 0.001 mm.
- Non-rotating spindle.
- Blade width: 0.75 mm, blade length: 6 mm.

Digital

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



906.141



NEW



909.882

Analog

Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.141	0- 25	±0.004	94.00
906.142	25- 50	±0.004	101.00
906.143	50- 75	±0.005	108.00
906.144	75- 100	±0.005	119.00
906.222	100- 125	±0.006	130.00
906.223	125- 150	±0.006	141.00
906.224	150- 175	±0.007	154.00

Digital

Item No.	Measuring range/mm	Accuracy mm	Price EUR
909.882	0- 25	±0.004	160.00
909.883	25- 50	±0.004	170.00
909.884	50- 75	±0.005	179.00
909.885	75- 100	±0.005	192.00
909.886	100- 125	±0.006	202.00
909.887	125- 150	±0.006	211.00
909.888	150- 175	±0.007	221.00

Option:

836.535 Spare battery 1.60



Screw thread micrometers

- Measuring range: 0 - 200 mm.
- Analog: graduation 0.01 mm, digital: resolution 0.001 mm.
- Insert shaft: $\varnothing 5$ mm.
- DIN 863 T3.
- Delivery incl. adjustment tools.
- From measuring range 25 - 50 mm including setting gauge 60°.
- No-glare chrome finished thimble.

Digital

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



906.751

NEW



909.889

Analog, without measuring inserts

Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.750	0 - 25	± 0.004	66.00
906.751	25 - 50	± 0.004	73.00
906.752	50 - 75	± 0.005	85.00
906.753	75 - 100	± 0.005	92.00
906.754	100 - 125	± 0.006	106.00
906.755	125 - 150	± 0.006	119.00
906.756	150 - 175	± 0.007	131.00
906.757	175 - 200	± 0.007	145.00

Digital, without measuring inserts

Item No.	Measuring range/mm	Accuracy mm	Price EUR
909.889	0 - 25	± 0.004	119.00
909.890	25 - 50	± 0.004	128.00
909.891	50 - 75	± 0.005	138.00
909.892	75 - 100	± 0.005	151.00
909.893	100 - 125	± 0.006	221.00
909.894	125 - 150	± 0.006	241.00
909.895	150 - 175	± 0.007	263.00
909.896	175 - 200	± 0.007	286.00

Option:

836.535 Spare battery 1.60



Screw thread micrometers (continued)



906.725

Item No.	Threads per inch	Price EUR
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Measuring inserts for Whitworth threads, 55° flank angle, per pair:

906.730	60 -48	18.50
906.731	48 -40	18.50
906.732	40 -32	18.50
906.733	32 -24	18.50
906.734	24 -18	18.50
906.735	18 -14	18.50
906.736	14 -10	18.50
906.737	10 - 7.0	18.50
906.738	7.0- 4.5	18.50
906.739	4.5- 3.5	18.50

906.740	Set 60-3.5	145.00
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Item No.	Pitch/mm	Price EUR
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Measuring inserts for metric threads, 60° flank angle, per pair:

906.720	0.4 -0.5	18.50
906.721	0.6 -0.9	18.50
906.722	1.0 -1.75	18.50
906.723	2.0 -3.0	18.50
906.724	3.5 -5.0	18.50
906.725	5.5 -7.0	18.50

906.726	Set 0.4-7.0	82.00
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Item No.	Threads per inch	Price EUR
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Measuring inserts for UN, UNC and UNF threads, 60° flank angle, per pair:

906.741	64 -48	18.50
906.742	44 -28	18.50
906.743	24 -14	18.50
906.744	13 - 9	18.50
906.745	8 - 5	18.50
906.746	4.5- 3.5	18.50

906.747	Set 64-3.5	87.00
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909.305



Item No.	Length/mm	Price EUR
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Hardened steel setting standards for threads with 60° flank angle:

909.304	25	28.90
909.305	50	33.20
909.306	75	38.10
909.307	100	44.00
909.308	125	51.00
909.309	150	58.00
909.310	175	62.00
909.311	200	71.00

Item No.	Length/mm	Price EUR
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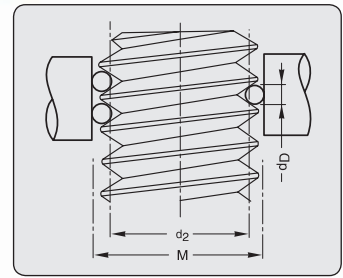
Hardened steel setting standards for threads with 55° flank angle:

909.312	25	28.90
909.313	50	33.20
909.314	75	38.10
909.315	100	41.00
909.316	125	51.00
909.317	150	54.00
909.318	175	66.00
909.319	200	71.00

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 $\phi 6.35$, $\phi 6.5$ or $\phi 8$ mm. (Also available for measuring faces $\phi 6.8$ and $\phi 7.5$ 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 $\phi 6.35$, $\phi 6.5$ or $\phi 8$ mm

$\phi 6.35$ mm		$\phi 6.5$ mm		$\phi 8$ mm		Wire diameter d_3 /mm	Metric, pitch in mm	Whitworth, threads per inch	UN/UNC/UNF, threads per inch
Item No.	Price EUR	Item No.	Price EUR	Item No.	Price EUR				
833.442	129.00	779.161	129.00	836.689	129.00	0.17	0.25; 0.3	–	–
833.443	129.00	781.651	129.00	836.690	129.00	0.195	–	–	80
833.444	129.00	779.162	129.00	836.691	129.00	0.22	0.35	–	72
833.445	129.00	779.163	129.00	835.844	129.00	0.25	0.4	–	64
833.446	129.00	779.164	129.00	834.499	129.00	0.29	0.45; 0.5	–	56
833.447	129.00	779.165	129.00	834.498	129.00	0.335	0.6	40	48; 44
833.448	129.00	781.652	129.00	837.848	129.00	0.390	–	–	40
833.449	129.00	779.166	129.00	833.872	129.00	0.455	0.7-0.8	–	36
833.450	129.00	779.167	129.00	834.585	129.00	0.53	–	32; 28	32; 28
833.451	129.00	779.168	129.00	834.480	129.00	0.62	1	26; 24	24
833.452	129.00	779.169	129.00	834.586	129.00	0.725	1.25	22; 20; 19	20
833.453	129.00	779.170	129.00	834.290	129.00	0.895	1.5	18; 16	18; 16
833.454	129.00	779.171	129.00	834.502	129.00	1.10	1.75	14	14; 13
833.455	129.00	779.172	129.00	834.291	129.00	1.35	2	12; 11	12; 11
833.456	129.00	779.173	129.00	833.871	129.00	1.65	2.5	10; 9	10; 9
833.457	129.00	779.174	129.00	834.292	129.00	2.05	3.0; 3.5	8; 7	8; 7
833.458	129.00	779.175	129.00	834.416	129.00	2.55	4.0; 4.5	6	6
833.459	129.00	779.176	129.00	834.483	129.00	3.20	5.0; 5.5	5; 4.5	5; 4.5
837.501	401.00	837.642	401.00	834.509	401.00	4.00	6.0	4; 3.5	4
834.580	2,280.00	779.160	2,280.00	834.581	2,280.00	Set with wire diameters 0.17 to 3.20 mm			

Hub micrometers

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



907.133

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

Item No.	Measuring range/mm	Accuracy mm	Price EUR
907.133	0 - 25	±0.004	48.00
907.134	25 - 50	±0.004	58.00
907.135	50 - 75	±0.004	63.00
907.136	75 - 100	±0.005	66.00



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.



Item No.	Measuring range/mm	Price EUR
907.175	0 - 13	48.00



Wire and ball micrometer

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



Item No.	Measuring range/mm	Price EUR
906.175	0 - 10	48.00



Wire and ball micrometer

With varnished frame and no-glare chrome finished thimble. Ideal for single-handed measurements.

- Measuring range: 0 - 10 mm.
- Graduation: 0.01 mm.



Item No.	Measuring range/mm	Price EUR
831.191	0 - 10	22.90



Mitutoyo special-purpose micrometers

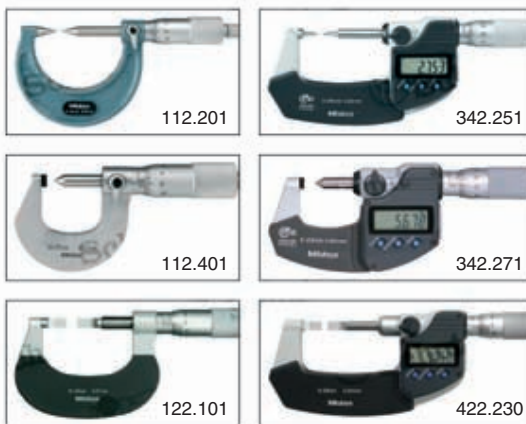
Mitutoyo special-purpose analog and digital micrometers. For more information please contact our sales department.



Item No.	Measuring range/mm	Read-out ¹ mm	Price EUR
With small measuring faces $\varnothing 3$ mm:			
111.115	0- 25	0.01 (A)	190.00
111.116	25- 50	0.01 (A)	232.00
111.117	50- 75	0.01 (A)	265.00
111.118	75-100	0.01 (A)	282.00
331.251 ²	0- 25	0.001 (D)	635.00
331.252 ²	25- 50	0.001 (D)	689.00
331.253 ²	50- 75	0.001 (D)	735.00
331.254 ²	75-100	0.001 (D)	767.00
With small measuring faces $\varnothing 2$ mm:			
111.215	0- 25	0.01 (A)	190.00
331.261 ²	0- 25	0.001 (D)	635.00
331.262 ²	25- 50	0.001 (D)	689.00
331.263 ²	50- 75	0.001 (D)	735.00
331.264 ²	75-100	0.001 (D)	767.00
With prism-shaped anvil (with grooves):			
114.101	1- 15	0.01 (A)	322.00
114.102	10- 25	0.01 (A)	378.00
314.251	1- 15	0.001 (D)	804.00
314.252	10- 25	0.001 (D)	840.00
With prism-shaped anvil (without grooves):			
114.161	1- 15	0.01 (A)	302.00
114.204 ³	2.3- 25	0.01 (A)	442.00
114.162	10- 25	0.01 (A)	372.00
114.103	25- 40	0.01 (A)	385.00
314.261	1- 15	0.001 (D)	804.00
314.262	10- 25	0.001 (D)	840.00
314.253	25- 40	0.001 (D)	862.00



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



Item No.	Measuring range/mm	Read-out ¹ mm	Price EUR
With pointed measuring faces 15°:			
112.153	0- 25	0.01 (A)	190.00
112.154	25- 50	0.01 (A)	232.00
342.251 ²	0- 25	0.001 (D)	599.00
342.252 ²	25- 50	0.001 (D)	672.00
342.253 ²	50- 75	0.001 (D)	709.00
342.254 ²	75-100	0.001 (D)	746.00
With pointed measuring faces 30°:			
112.201	0- 25	0.01 (A)	190.00
112.202	25- 50	0.01 (A)	232.00
342.261 ²	0- 25	0.001 (D)	599.00
342.262 ²	25- 50	0.001 (D)	672.00
342.263 ²	50- 75	0.001 (D)	709.00
342.264 ²	75-100	0.001 (D)	746.00
With pointed measuring face and lamellar anvil:			
112.401	0- 25	0.01 (A)	238.00
342.271 ²	0- 20	0.001 (D)	562.00
With lamellar measuring faces:			
122.101	0- 25	0.01 (A)	255.00
122.102	25- 50	0.01 (A)	309.00
122.103	50- 75	0.01 (A)	330.00
122.104	75-100	0.01 (A)	359.00
122.105	100-125	0.01 (A)	469.00
122.106	125-150	0.01 (A)	506.00
122.107	150-175	0.01 (A)	553.00
122.108	175-200	0.01 (A)	610.00
422.230	0- 25	0.001 (D)	914.00
422.231	25- 50	0.001 (D)	992.00
422.232	50- 75	0.001 (D)	1,030.00
422.233	75-100	0.001 (D)	1,066.00

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)	213.00
123.102	25 - 50	0.01 (A)	238.00
123.103	50 - 75	0.01 (A)	263.00
123.104	75 - 100	0.01 (A)	306.00
123.105	100 - 125	0.01 (A)	322.00
123.106	125 - 150	0.01 (A)	340.00
123.107	150 - 175	0.01 (A)	364.00
123.108	175 - 200	0.01 (A)	393.00
123.109	200 - 225	0.01 (A)	403.00
123.110	225 - 250	0.01 (A)	416.00
123.111	250 - 275	0.01 (A)	437.00
123.112	275 - 300	0.01 (A)	456.00
323.250 ²	0 - 25	0.001 (D)	667.00
323.251 ²	25 - 50	0.001 (D)	741.00
323.252 ²	50 - 75	0.001 (D)	788.00
323.253 ²	75 - 100	0.001 (D)	819.00
With non-rotating spindle and disk-shaped measuring faces for soft materials:			
169.101	0 - 25	0.01 (A)	276.00
169.201 ³	0 - 25	0.01 (A)	297.00
369.250 ³	0 - 25	0.001 (D)	777.00
369.251 ³	25 - 50	0.001 (D)	851.00
369.252 ³	50 - 75	0.001 (D)	887.00
369.253 ³	75 - 100	0.001 (D)	930.00
Universal, with interchangeable anvils:			
117.101	0 - 25	0.01 (A)	265.00
117.102	25 - 50	0.01 (A)	334.00
317.251 ²	0 - 25	0.001 (D)	567.00
317.252 ²	25 - 50	0.001 (D)	630.00
With measuring jaws for hard-to-reach places:			
143.101	0 - 25	0.01 (A)	310.00
143.102	25 - 50	0.01 (A)	327.00
143.103	50 - 75	0.01 (A)	390.00
143.104	75 - 100	0.01 (A)	411.00
343.250	0 - 25	0.001 (D)	720.00
343.251	25 - 50	0.001 (D)	782.00
343.252	50 - 75	0.001 (D)	825.00
343.253	75 - 100	0.001 (D)	862.00
With exchangeable ball inserts for external gears⁴:			
224.251 ²	0 - 25	0.001 (D)	819.00
224.252 ²	25 - 50	0.001 (D)	835.00
224.253 ²	50 - 75	0.001 (D)	856.00
224.254 ²	75 - 100	0.001 (D)	877.00

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

Item No.	Measuring range/mm	Read-out ¹ mm	Price EUR
For thread measurements (pitch diameters)⁴:			
126.125	0 - 25	0.01 (A)	294.00
126.126	25 - 50	0.01 (A)	353.00
126.127	50 - 75	0.01 (A)	392.00
126.128	75 - 100	0.01 (A)	415.00
126.129	100 - 125	0.01 (A)	430.00
126.130	125 - 150	0.01 (A)	520.00
326.251 ²	0 - 25	0.001 (D)	835.00
326.252 ²	25 - 50	0.001 (D)	856.00
326.253 ²	50 - 75	0.001 (D)	877.00
326.254 ²	75 - 100	0.001 (D)	924.00

³ Offset measuring faces.⁴ Measuring inserts separately available.

TESA special-purpose micrometers

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



782.126



779.087



782.111



779.089



782.512



779.095



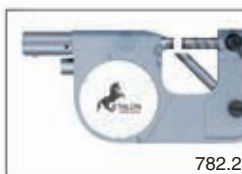
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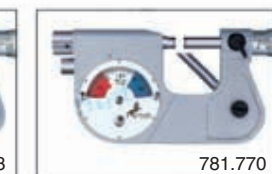
782.609



782.607



782.243



781.770

Item No.	Measuring range/mm	Read-out ¹ mm	Price EUR
With spherical anvil and flat spindle:			
782.126 ²	0 - 30	0.001 (D)	598.00
With small measuring faces ø2 mm:			
779.087	0 - 25	0.01 (A)	354.00
779.088	25 - 50	0.01 (A)	411.00
782.111 ²	0 - 30	0.001 (D)	686.00
782.112 ²	30 - 60	0.001 (D)	746.00
With non-rotating spindle and disk-shaped measuring faces for gear pitch measurements:			
779.089	0 - 25	0.01 (A)	438.00
779.090	25 - 50	0.01 (A)	457.00
779.091	50 - 75	0.01 (A)	516.00
779.092	75 - 100	0.01 (A)	578.00
779.093	100 - 125	0.01 (A)	632.00
779.094	125 - 150	0.01 (A)	688.00
782.512	0 - 30	0.001 (D)	1,471.00
782.513	25 - 55	0.001 (D)	1,522.00
782.514	55 - 85	0.001 (D)	1,570.00
782.515	85 - 115	0.001 (D)	1,624.00
With non-rotating spindle and disk-shaped measuring faces for soft materials:			
779.095	0 - 25	0.01 (A)	382.00
782.516	0 - 30	0.001 (D)	1,570.00
For tube wall thickness measurements:			
782.609	0 - 25	0.01 (A)	397.00
Universal, with interchangeable anvils:			
782.607	0 - 25	0.002 (V)	329.00
With retractable anvil:			
782.243	0 - 25	0.002 (V)	1,190.00

¹ A = analog read-out, V = vernier read-out, C = dial read-out, D = digital read-out.



Item No.	Measuring range/mm	Read-out ¹ mm	Price EUR
With retractable anvil and precision dial indicator:			
781.770	0 - 25	0.001 (C)	1,149.00
781.771	25 - 50	0.001 (C)	1,227.00

² Model with IP54 protection (IP40 when using data output).

TESA special-purpose micrometers (continued)



Item No.	Measuring range/mm	Read-out ¹ mm	Price EUR
For interchangeable measuring inserts²:			
782.502 ³	0-30	0.001 ^(D)	1,223.00
Interchangeable measuring inserts, per pair:			
782.505	flat ϕ 6.5 mm		46.00
782.506	flat, small ϕ 2 mm		54.00
782.507	flat, large ϕ 12 mm		54.00
782.508	flat, narrow 0.7 mm		54.00
782.509	knife-edged 0.1 mm/60°		63.00
782.510	spherical R=5 mm		46.00
782.511	cone-shaped ϕ 0.3 mm/60°		54.00
782.504	Set 782.505 - 782.511		234.00

Item No.	Measuring range/mm	Read-out ¹ mm	Price EUR
Screw thread micrometers^{2,4}:			
779.081	0-25	0.01 ^(A)	435.00
779.082	25-50	0.01 ^(A)	478.00
779.083	50-75	0.01 ^(A)	571.00
779.084	75-100	0.01 ^(A)	654.00
782.183 ³	0-25	0.001 ^(D)	941.00
782.184 ³	25-50	0.001 ^(D)	967.00
782.185 ³	50-75	0.001 ^(D)	1,000.00
782.186 ³	75-100	0.001 ^(D)	1,047.00



Item No.	Measuring range/mm	Read-out ¹ mm	Price EUR
Measuring inserts for metric⁵ threads, 60° flank angle, per pair (pitch in mm):			
779.137	0.4 -0.5		88.00
779.138	0.5 -0.6		88.00
779.139	0.6 -0.8		88.00
779.140	0.8 -1.0		88.00
779.141	1.0 -1.25		88.00
779.142	1.25 -1.5		88.00
779.143	1.5 -2.0		88.00
779.144	2.0 -2.5		88.00
779.145	2.5 -3.0		88.00
779.146	3.0 -4.0		88.00
779.147	4.0 -5.0		88.00
779.148	5.0 -6.0		88.00
779.149	Set 0.4 -6.0		787.00

Item No.	Measuring range/mm	Read-out ¹ mm	Price EUR
With prism-shaped anvil⁴ (V-angle 60°, for 3-fluted objects):			
782.189 ³	1-7	0.001 ^(D)	1,100.00
782.190 ³	5-20	0.001 ^(D)	1,136.00
782.191 ³	20-35	0.001 ^(D)	1,171.00
782.192 ³	35-50	0.001 ^(D)	1,244.00
782.193 ³	50-65	0.001 ^(D)	1,319.00
782.194 ³	65-80	0.001 ^(D)	1,369.00
With prism-shaped anvil⁴ (V-angle 108°, for 5-fluted objects):			
782.195 ³	1-7	0.001 ^(D)	1,100.00
782.196 ³	5-25	0.001 ^(D)	1,136.00
782.197 ³	25-45	0.001 ^(D)	1,171.00
782.198 ³	45-65	0.001 ^(D)	1,244.00
782.199 ³	65-85	0.001 ^(D)	1,369.00



¹ A = analog read-out, D = digital read-out.

² Instrument without measuring inserts.

³ Model with IP54 protection (IP40 when using data output).

⁴ Setting standards are separately available.

⁵ Inserts for Whitworth threads and for UN, UNC and UNF threads are also available.

Schut for Precision**MICROMETER ACCESSORIES****Setting gauges**

Cylindrical gauges for micrometers with flat parallel measuring faces.

- Measuring faces $L < 100$ mm: $\varnothing 7$ mm, flat,
 $L < 300$ mm: $\varnothing 8$ mm, flat,
 $L \geq 300$ mm: $\varnothing 8$ mm, spherical.
- With plastic insulating grip.
- Larger sizes available on request.



907.464

**Setting standards**

Cylindrical setting standards for micrometers with prism-shaped anvil.



909.326

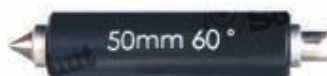


Item No.	Length mm	Accuracy μm	Price EUR
907.464	25	± 2	3.20
907.465	50	± 2	3.70
907.466	75	± 2.5	4.60
907.467	100	± 2.5	6.00
907.468	125	± 3	7.40
907.469	150	± 3	8.30
907.470	175	± 3.5	9.70
907.471	200	± 4	11.10
907.472	225	± 4	12.30
907.473	250	± 4	14.20
907.474	275	± 4.5	15.40
907.475	300	± 4.5	30.20
907.476	325	± 5	30.20
907.477	350	± 5	36.20
907.478	375	± 5.5	30.20
907.479	400	± 5.5	36.20
907.480	425	± 6	29.80
907.481	450	± 6	38.50
907.482	475	± 6.5	38.50
907.483	500	± 6.5	38.50
907.484	525	± 7	39.40
907.485	575	± 7.5	39.40
907.486	625	± 7.5	47.00
907.487	675	± 8	47.00
907.488	725	± 8.5	53.00
907.489	775	± 9.5	53.00
907.490	825	± 10	61.00
907.491	875	± 10.5	62.00
907.492	925	± 11	74.00
907.493	975	± 11.5	74.00
907.494	1050	± 12	82.00
907.495	1150	± 13	104.00
907.496	1250	± 14	113.00
907.497	1350	± 15	116.00
907.498	1450	± 16	117.00
909.529	1550	± 17	139.00
909.530	1650	± 18	166.00
909.531	1750	± 19	166.00
909.532	1850	± 20	199.00
909.533	1950	± 21	199.00

Item No.	Diameter/mm	Price EUR
909.323	5	8.60
909.324	20	23.40
909.325	25	25.80
909.326	35	29.60
909.327	45	28.60
909.328	50	35.80
909.329	65	47.00
909.330	80	63.00
909.331	85	68.00

Setting standards

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



909.305



Item No.	Length/mm	Price EUR
For threads with 60° flank angle:		
909.304	25	28.90
909.305	50	33.20
909.306	75	38.10
909.307	100	44.00
909.308	125	51.00
909.309	150	58.00
909.310	175	62.00
909.311	200	71.00
For threads with 55° flank angle:		
909.312	25	28.90
909.313	50	33.20
909.314	75	38.10
909.315	100	41.00
909.316	125	51.00
909.317	150	54.00
909.318	175	66.00
909.319	200	71.00

Micrometer stand

Rigid table stand for micrometers.

- Inclination adjustable.
- Weight: 1.1 kg.



Item No.	Clamping range/mm	Price EUR
906.212	0 - 18	12.60

Micrometer stand

Cast steel stand for micrometers.

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



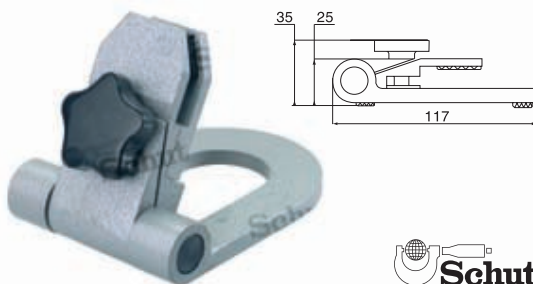
Item No.	Clamping range/mm	Price EUR
908.983	4 - 12	16.80

Foldable micrometer stand

Portable stand with a folded structure for micrometers.



Item No.	Clamping range/mm	Price EUR
907.152	7 - 14	21.20



Ball attachments

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

- Ball: $\varnothing 5$ mm.



Item No.	Description	Price EUR
907.150	Ball attachment, $\varnothing 6.5$ mm	13.40
907.166	Ball attachment, $\varnothing 8$ mm	14.50

Measuring force indicators

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



Item No.	For micrometers	Price EUR
907.151	0 - 25 mm	8.70
908.947	25 - 50 mm	10.30
908.948	50 - 75 mm	11.30
908.949	75 - 100 mm	11.30

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 case.



Item No.	Description	Price EUR
909.118	Probe set for micrometers	19.10



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 $\varnothing 30 \times 12$ mm.



Item No.	Material	Grade	Price EUR
909.346	steel	1	190.00
909.345	steel	0	252.00
909.162	ceramic	1	407.00
909.340	ceramic	0	471.00



909.340

Thread and tolerance tables

Thread table

Table with all standard international thread indications: metric, Ww, Gas, BSF, Pg, BA, UNC, UNF and UNEF.

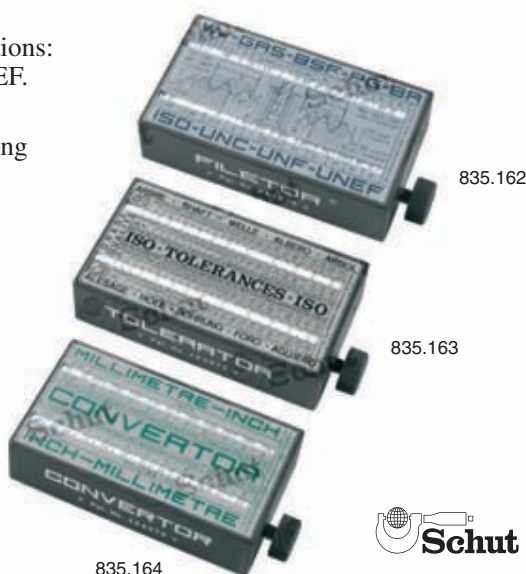
Tolerance table

Table comprising all tolerances and fits according ISO R286, 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.

Item No.	Description	Price EUR
835.162	Thread table	40.00
835.163	Tolerance table	40.00
835.164	Conversion table mm/inch	40.00



835.162

835.163

835.164



TESA setting gauges

Cylindrical gauges of hardened and lapped steel for micrometers with flat parallel measuring faces. All rods have one flat and one spherical face.

- Measuring faces $L < 200$ mm: $\varnothing 10$ mm,
 $L \geq 200$ mm: $\varnothing 13$ mm.
- No-glare chrome finished rod with plastic insulating grip.

Guide collars

Plastic grips for better positioning of the setting gauges. Suitable for setting gauges with measuring faces $\varnothing 8$ mm.



Mitutoyo micrometer inspection sets

These sets are composed for the inspection of micrometers according to 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 $\varnothing 30 \times 12$ mm.

516.156

Item No.	Material	Grade	Price EUR
516.107	steel	1	494.00
516.106	steel	0	567.00
516.157	ceramic	1	755.00
516.156	ceramic	0	949.00



Etalon stepped setting gauges

For adjusting micrometers.

- Made of hardened steel.
- Gauge steps of: $\varnothing 5 - 50$ mm: 5 mm,
 $\varnothing 50 - 150$ mm: 10 mm.
- Accuracy: $\varnothing 5 - 80$ mm: 0.0015 mm,
 $\varnothing 90 - 120$ mm: 0.0020 mm,
 $\varnothing 130 - 150$ mm: 0.0025 mm.
- Delivery: mounted on base with a protection cover.
- Delivery with a declaration of conformity.

Item No.	Measuring range/mm	Price EUR
781.810	5-100	2,064.00
781.811	5-150	2,738.00

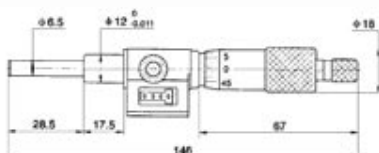


781.811

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.



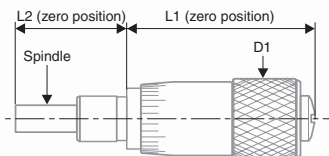
Item No.	Measuring range/mm	Spindle ø/mm	Price EUR
906.543	0-25	6.5	21.60

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	13.20
906.074	0- 6.5	0.01	±0.005	3.5 (spherical)	ø 6 x 6	ø10	23	14	11.90
906.071	0-13	0.01	±0.004	5.0 (flat)	ø 9.5x 9.5	ø14	33	26	14.10
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	15.30
906.073	0-25	0.002	±0.003	6.5 (flat)	ø12 x17	ø19	65	46	14.80

C03.277-EN 2015102

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.



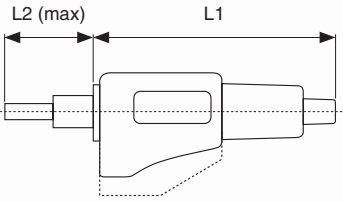
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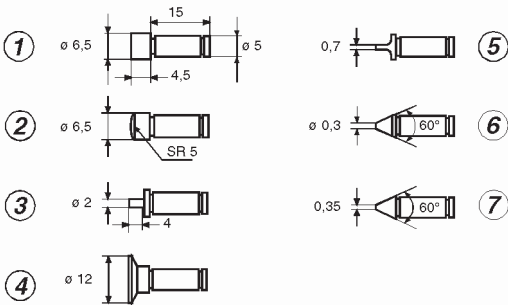
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NEW

PRICE



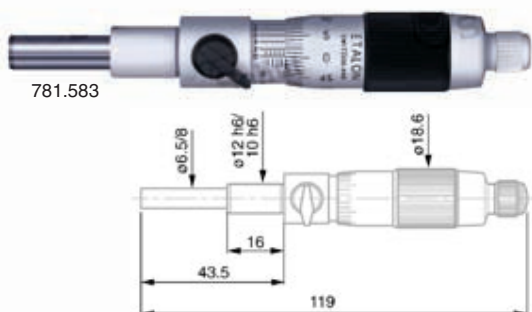
Item No.	Measuring range/mm	Dimensions/mm				Description measuring faces	Price EUR
		spindle	clamping	L1	L2		
With IP65 protection:							
909.897	0-25	$\phi 6.5$	$\phi 12 \times 17.5$	111	48	flat, tungsten carbide measuring face	96.00
909.898	0-25	$\phi 6.5$	$\phi 12 \times 17.5$	111	48	spherical	96.00
909.899	0-25	$\phi 6.5$	$\phi 12 \times 17.5$	111	48	flat, non-rotating tip	98.00
909.900	0-50	$\phi 7.5$	$\phi 12 \times 35.5$	136	88	flat, tungsten carbide measuring face	154.00
909.901	0-50	$\phi 7.5$	$\phi 12 \times 35.5$	136	88	spherical	154.00
With non-rotating spindle:							
909.902	0-25	$\phi 7.5$	$\phi 12 \times 10$	112	51	flat, tungsten carbide measuring face	125.00
909.903	0-25	$\phi 7.5$	$\phi 12 \times 10$	112	51	interchangeable measuring inserts	128.00
906.297	0-25	$\phi 6.5$	$\phi 12 \times 17.5$	98	48	tungsten carbide measuring face	63.00
906.298	0-25	$\phi 8$	$\phi 12 \times 20$	98	50	tungsten carbide measuring face	76.00
Option:							
836.535	Spare battery						1.60



No.	Item No.	Description measuring faces	Price EUR
Measuring inserts, per pair:			
①	906.788	flat	12.30
②	906.789	spherical	14.80
③	906.790	small	22.00
④	906.791	disc	22.20
⑤	906.792	knife/flat	29.60
⑥	906.793	point	22.20
⑦	906.794	knife	29.10
	906.795	Set of 7 pairs	116.00

TESA micrometer heads

TESA micrometer heads serve as built-in components on measuring systems, microscopes and other measuring instruments.



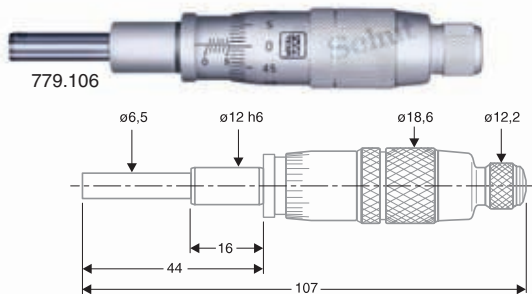
- Measuring range: 0-30 mm.
- Clamping stem: \varnothing 12h6 mm (length: 16 mm).
- Tungsten carbide measuring face.
- Locking screw (only 781.583).
- DIN 863 T2.
- Delivery in a case.

Digital

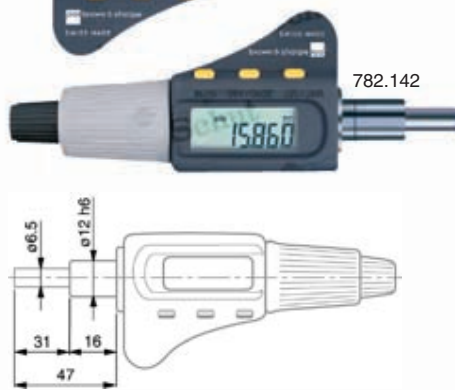
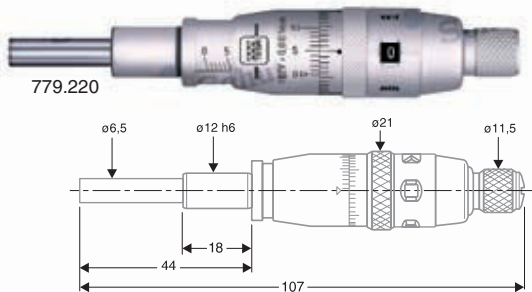
- Resolution: 0.001 mm.
- mm/inch conversion.
- ABS/INC switchable.
- Opto-RS232C data output.
- Automatic switch-off.
- Reset/preset.
- Delivery with an inspection report and a declaration of conformity.
- Power supply: 1 battery type CR2032.



ISOMASTER



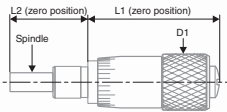
TESAMASTER



Item No.	Type	Measuring range/mm	Graduation mm	Accuracy mm	Spindle \varnothing /mm	Mounting	Price EUR
781.583	Etalon	0-25	0.002	± 0.003	8	-	249.00
779.106	Isomaster	0-25	0.01	± 0.003	6.5	-	165.00
779.220	Tesamaster	0-25	0.001	± 0.002	6.5	-	271.00
Digital:							
782.109	Micromaster	0-30	0.001	± 0.003	6.5	right-left	386.00
782.110	Micromaster	30-0	0.001	± 0.003	6.5	right-left	395.00
782.142	Micromaster	30-0	0.001	± 0.003	6.5	left-right	428.00
Option:							
495.157	Spare battery						0.50

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



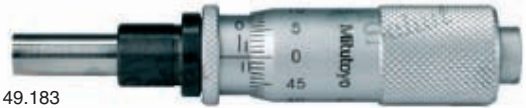
148.103



149.131



149.183



Item No.	Measuring range/mm	Graduation mm	Accuracy mm	Clamp nut	Dimensions/mm			Price EUR	
					spindle	D1	L1	L2	
For general applications:									
148.104	0 - 13	0.01	±0.002	no	∅5	∅13	31.5	27	56.00
148.103	0 - 13	0.01	±0.002	yes	∅5	∅13	31.5	27	66.00
For general applications with spherical measuring face:									
148.801	0 - 13	0.01	±0.002	no	∅5	∅13	31.5	27	63.00
148.802	0 - 13	0.01	±0.002	yes	∅5	∅13	31.5	27	69.00
Ultra-small micrometer heads with spherical measuring face:									
148.215	0 - 5	0.02	±0.005	no	∅2	∅6	20.5	11.5	95.00
148.216	0 - 5	0.02	±0.005	yes	∅2	∅6	20.5	11.5	99.00
148.205	0 - 6.5	0.01	±0.005	no	∅3.5	∅9	21.7	15	64.00
148.207	0 - 6.5	0.01	±0.005	yes	∅3.5	∅9	21.7	15	66.00
With lapped tungsten carbide measuring face:									
149.132	0 - 15	0.01	±0.002	no	∅6.35	∅15	43.5	32	67.00
149.131	0 - 15	0.01	±0.002	yes	∅6.35	∅15	43.5	32	71.00
With lapped tungsten carbide spherical measuring face:									
149.801	0 - 15	0.01	±0.002	no	∅6.35	∅15	43.5	32	68.00
149.802	0 - 15	0.01	±0.002	yes	∅6.35	∅15	43.5	32	72.00
With lapped tungsten carbide measuring face, with spindle lock:									
149.183	0 - 15	0.01	±0.002	no	∅6.35	∅15	49	26.5	67.00
149.184	0 - 15	0.01	±0.002	yes	∅6.35	∅15	49	26.5	71.00
With lapped tungsten carbide measuring face, with ratchet:									
150.192	0 - 25	0.01	±0.002	no	∅6.35	∅18	67	42	56.00
150.191	0 - 25	0.01	±0.002	yes	∅6.35	∅18	67	42	66.00
With lapped tungsten carbide spherical measuring face, with ratchet:									
150.801	0 - 25	0.01	±0.002	no	∅6.35	∅18	67	42	67.00
150.802	0 - 25	0.01	±0.002	yes	∅6.35	∅18	67	42	73.00

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.



350.271



350.272

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

Item No.	Measuring range/mm	Accuracy/mm	Spindle ϕ /mm	Clamp nut	Price EUR
350.261	0-25	± 0.002	6.35	no	442.00
350.271	0-25	± 0.002	6.35	no	410.00
350.272	0-25	± 0.002	6.35	yes	420.00
Option:					
836.535	Spare battery				1.60

Mitutoyo Digimatic micrometer head

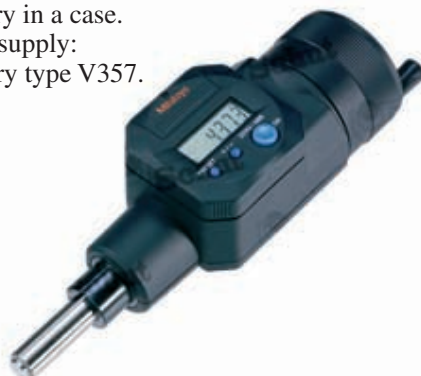
Digital micrometer head with non-rotating spindle for integration into machinery and measuring systems such as XY measuring tables of microscopes and projectors. The display and operating unit is rotatable over 330° and guarantees an ideal read-out in any position.

- 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: $\phi 8$ mm.
- Conforms to factory standard.
- Delivery in a case.
- Power supply: 1 battery type V357.



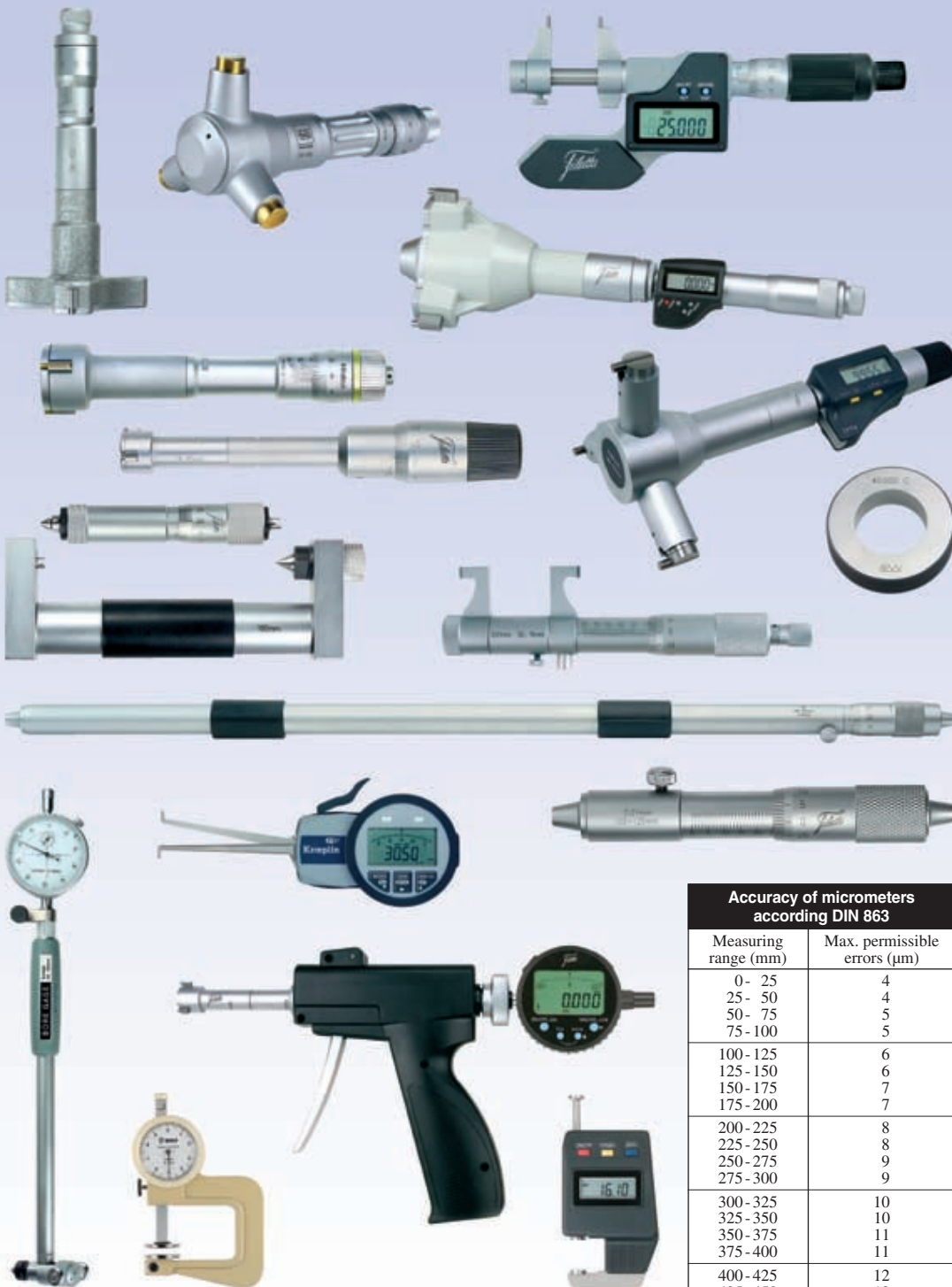
Data cables Digimatic, USB Input Tool Direct, U-WAVE available on request.

Item No.	Measuring range/mm	Accuracy mm	Spindle ϕ /mm	Price EUR
164.163	0-50	± 0.003	8	757.00
Option:				
836.535	Spare battery			1.60



Schut for Precision

Internal micrometers / Internal & external measuring instruments



Accuracy of micrometers according DIN 863	
Measuring range (mm)	Max. permissible errors (µm)
0 - 25	4
25 - 50	4
50 - 75	5
75 - 100	5
100 - 125	6
125 - 150	6
150 - 175	7
175 - 200	7
200 - 225	8
225 - 250	8
250 - 275	9
275 - 300	9
300 - 325	10
325 - 350	10
350 - 375	11
375 - 400	11
400 - 425	12
425 - 450	12
450 - 475	13
475 - 500	13

CO4.001-EN-20151102

Three-point internal micrometers

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

- Measuring range: \varnothing 3.5 - 300 mm.
- Graduation: 0.001 mm (\varnothing 3.5 - 12 mm),
0.005 mm (\varnothing 12 - 300 mm).
- Tungsten carbide measuring faces.
- Delivery in a case.
- Sets are delivered incl. setting rings and extension (836.730 without extension).



Item No.	Measuring range/mm	Accuracy mm	Price EUR
836.700	\varnothing 3.5 - 4	± 0.005	134.00
836.701	\varnothing 4.0 - 4.5	± 0.005	134.00
836.702	\varnothing 4.5 - 5.5	± 0.005	134.00
836.703	\varnothing 5.5 - 6.5	± 0.005	134.00
836.704	\varnothing 6 - 8	± 0.005	134.00
836.705	\varnothing 8 - 10	± 0.005	134.00
836.706	\varnothing 10 - 12	± 0.005	134.00
836.707	\varnothing 12 - 16	± 0.005	134.00
836.708	\varnothing 16 - 20	± 0.005	134.00
836.709	\varnothing 20 - 25	± 0.005	134.00
836.710	\varnothing 25 - 30	± 0.005	134.00
836.711	\varnothing 30 - 35	± 0.005	134.00
836.712	\varnothing 35 - 40	± 0.005	134.00
836.713	\varnothing 40 - 50	± 0.006	157.00
836.714	\varnothing 50 - 60	± 0.006	157.00
836.715	\varnothing 60 - 70	± 0.006	157.00
836.716	\varnothing 70 - 80	± 0.006	157.00
836.717	\varnothing 80 - 90	± 0.006	157.00
836.718	\varnothing 90 - 100	± 0.006	157.00
836.719	\varnothing 100 - 125	± 0.008	269.00
836.720	\varnothing 125 - 150	± 0.008	269.00
836.721	\varnothing 150 - 175	± 0.008	269.00
836.722	\varnothing 175 - 200	± 0.008	269.00
836.723	\varnothing 200 - 225	± 0.012	336.00
836.724	\varnothing 225 - 250	± 0.012	336.00
836.725	\varnothing 250 - 275	± 0.012	336.00
836.726	\varnothing 275 - 300	± 0.012	336.00
Sets:			
836.730*	\varnothing 3.5 - 6.5	± 0.005	560.00
836.735	\varnothing 6 - 12	± 0.005	358.00
836.740	\varnothing 12 - 20	± 0.005	314.00
836.745	\varnothing 20 - 40	± 0.005	560.00
836.750	\varnothing 40 - 100	± 0.006	896.00

* Without extension.



836.718



Extensions

Item No.	Extension mm	For measuring range/mm	Price EUR
836.780	100	\varnothing 6 - 12	63.00
836.782	150	\varnothing 12 - 20	63.00
836.784	150	\varnothing 20 - 40	63.00
836.786	150	\varnothing 40 - 100	63.00



836.745

Setting rings

Measuring range/mm	Setting rings \varnothing /mm
\varnothing 3.5 - 6.5	4, 5.5
\varnothing 6 - 12	8, 10
\varnothing 12 - 20	16
\varnothing 20 - 40	25, 35
\varnothing 40 - 100	50, 70, 90

Three-point internal micrometers

Three-point internal micrometers, with factory measuring report, for accurately measuring bores.

- Measuring range: 0 - 300 mm.
- Self-centering.
- Tungsten carbide measuring faces (measuring range ϕ 6 - 12 mm: hardened steel).
- Separate instruments within measuring range ϕ 6 - 100 mm and the sets are delivered incl. setting ring(s) and extension.
- Delivery in a case, with an inspection report.

Digital

- Resolution: 0.001 mm.
- mm/inch conversion.
- ABS/INC switchable.
- On/off switch.
- Automatic switch-off.
- Reset/preset.
- Power supply: 1 battery type V357.

Analog

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

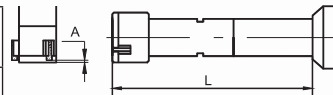


909.811



909.841

Item No.	Price EUR	Item No.	Price EUR	Measuring range/mm	Accuracy mm	Length L/mm	A/mm
Analog:		Digital:					
909.807	218.00	909.828	348.00	ϕ 6 - 8	± 0.004	30	1
909.808	218.00	909.829	348.00	ϕ 8 - 10	± 0.004	30	1
909.809	218.00	909.830	348.00	ϕ 10 - 12	± 0.004	30	1
909.810	151.00	909.831	337.00	ϕ 12 - 16	± 0.004	48	0.4
909.811	151.00	909.832	337.00	ϕ 16 - 20	± 0.004	48	0.4
909.812	213.00	909.833	352.00	ϕ 20 - 25	± 0.004	50	0.4
909.813	198.00	909.834	352.00	ϕ 25 - 30	± 0.004	50	0.4
909.814	234.00	909.835	394.00	ϕ 30 - 40	± 0.004	50	0.4
909.815	272.00	909.836	394.00	ϕ 40 - 50	± 0.005	55	0.5
909.816	287.00	909.837	418.00	ϕ 50 - 63	± 0.005	55	0.5
909.817	308.00	909.838	443.00	ϕ 62 - 75	± 0.005	55	0.5
909.818	322.00	909.839	461.00	ϕ 75 - 88	± 0.005	55	0.5
909.819	337.00	909.840	482.00	ϕ 87 - 100	± 0.005	55	0.5
909.820	373.00	909.841	491.00	ϕ 100 - 125	± 0.008	130	20
909.821	401.00	909.842	565.00	ϕ 125 - 150	± 0.008	130	20
909.822	536.00	909.843	639.00	ϕ 150 - 175	± 0.008	130	20
909.823	549.00	909.844	675.00	ϕ 175 - 200	± 0.008	130	20
909.824	711.00	909.845	840.00	ϕ 200 - 225	± 0.008	130	20
909.825	776.00	909.846	915.00	ϕ 225 - 250	± 0.008	130	20
909.826	893.00	909.847	1,046.00	ϕ 250 - 275	± 0.008	130	20
909.827	1,067.00	909.848	1,242.00	ϕ 275 - 300	± 0.008	130	20



909.850

Options

Item No.	Description	Price EUR
836.535	Spare battery	1.60
For meas. range ϕ 100 - 300 mm:		
909.857	Extension with length 150 mm	74.00

Sets

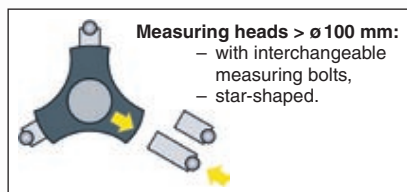
Item No.	Price EUR	Item No.	Price EUR	Measuring range/mm	Setting rings ϕ /mm	Extension mm	Number of instruments
Analog:		Digital:					
909.849	609.00	909.853	951.00	ϕ 6 - 12	8, 10	50	3
909.850	274.00	909.854	543.00	ϕ 12 - 20	16	100	2
909.851	792.00	909.855	1,293.00	ϕ 20 - 50	25, 40	150	4
909.852	1,044.00	909.856	1,500.00	ϕ 50 - 100	62, 87	150	4



Three-point internal micrometers

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

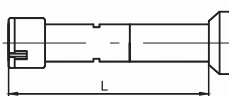
- Measuring range: ϕ 6-300 mm.
- Graduation: 0.001 mm (ϕ 6- 12 mm),
0.005 mm (ϕ 12-300 mm).
- Self-centering.
- Tungsten carbide measuring faces.
- Interchangeable measuring bolts from measuring range ϕ 100-125 mm.
- Delivery in a case, incl. extension 150 mm (measuring range ϕ 6-12 mm: 100 mm).
- Separate instruments within measuring range ϕ 6-100 mm and the sets are delivered incl. setting ring(s).



908.654

PRICE

Item No.	Measuring range/mm	Setting ring ϕ /mm	Accuracy mm	Length L/mm	Length A/mm	Price EUR
908.650	ϕ 6- 8	6	± 0.004	55	0.7	194.00
908.651	ϕ 8- 10	8	± 0.004	55	0.7	194.00
908.652	ϕ 10- 12	10	± 0.004	55	0.7	194.00
908.653	ϕ 12- 16	16	± 0.004	80	0.7	131.00
908.654	ϕ 16- 20	16	± 0.004	80	0.7	131.00
908.655	ϕ 20- 25	25	± 0.004	90	0.7	184.00
908.656	ϕ 25- 30	25	± 0.004	90	0.7	184.00
908.657	ϕ 30- 40	40	± 0.004	97	0.7	203.00
908.658	ϕ 40- 50	40	± 0.005	97	0.7	235.00
908.659	ϕ 50- 63	62	± 0.005	114	0.7	248.00
908.660	ϕ 62- 75	62	± 0.005	114	0.7	267.00
908.661	ϕ 75- 88	87	± 0.005	114	0.7	279.00
908.662	ϕ 87-100	87	± 0.005	114	0.7	292.00
908.663	ϕ 100-125	-	± 0.005	150	0.7	323.00
908.664	ϕ 125-150	-	± 0.005	150	0.7	387.00
908.665	ϕ 150-175	-	± 0.005	150	0.7	464.00
908.666	ϕ 175-200	-	± 0.005	150	0.7	560.00
908.667	ϕ 200-225	-	± 0.007	150	0.7	669.00
908.668	ϕ 225-250	-	± 0.007	150	0.7	746.00
908.669	ϕ 250-275	-	± 0.007	150	0.7	874.00
908.670	ϕ 275-300	-	± 0.007	150	0.7	1,048.00



Item No.	Measuring range/mm	Setting rings ϕ /mm	Extension mm	Number of instruments	Price EUR
908.671	ϕ 6- 12	6, 8, 10	100	3	529.00
908.672	ϕ 12- 20	16	150	2	238.00
908.673	ϕ 20- 50	25, 40	150	4	685.00
908.674	ϕ 50-100	62, 87	150	4	904.00

Digital three-point internal micrometers

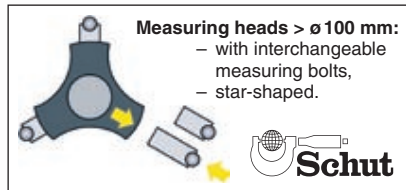
Digital three-point internal micrometers with a resolution of 0.001 mm for accurately measuring (blind) bores. These micrometers have several functions, and combined with the accurate read-out this results in a favourable price-performance ratio.



- Measuring range: \varnothing 6-300 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.



- Interchangeable measuring bolts from measuring range \varnothing 100-125 mm.
- Protection: IP54.
- Delivery in a case, incl. extension 150 mm (measuring range \varnothing 6-12 mm: 100 mm).
- Separate instruments within measuring range \varnothing 6-100 mm and the sets are delivered incl. setting ring(s).
- Power supply: 1 battery type V357.

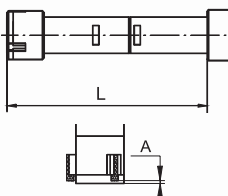


Item No.	Measuring range/mm	Setting ring \varnothing /mm	Accuracy mm	Length L/mm	Length A/mm	Price EUR
906.886	\varnothing 6- 8	6	± 0.004	62	0.7	301.00
906.887	\varnothing 8- 10	8	± 0.004	62	0.7	301.00
906.888	\varnothing 10- 12	10	± 0.004	62	0.7	301.00
906.889	\varnothing 12- 16	16	± 0.004	80	0.7	292.00
906.890	\varnothing 16- 20	16	± 0.004	80	0.7	292.00
906.891	\varnothing 20- 25	25	± 0.004	105	0.7	304.00
906.892	\varnothing 25- 30	25	± 0.004	105	0.7	304.00
906.893	\varnothing 30- 40	40	± 0.004	97	0.7	341.00
906.894	\varnothing 40- 50	40	± 0.005	110	0.7	341.00
906.895	\varnothing 50- 63	62	± 0.005	114	0.7	362.00
906.896	\varnothing 62- 75	62	± 0.005	127	0.7	384.00
906.897	\varnothing 75- 88	87	± 0.005	114	0.7	399.00
906.898	\varnothing 87-100	87	± 0.005	114	0.7	417.00
906.899	\varnothing 100-125	-	± 0.005	150	0.7	425.00
908.675	\varnothing 125-150	-	± 0.005	150	0.7	489.00
908.676	\varnothing 150-175	-	± 0.005	150	0.7	566.00
908.677	\varnothing 175-200	-	± 0.005	150	0.7	662.00
908.678	\varnothing 200-225	-	± 0.007	150	0.7	771.00
908.679	\varnothing 225-250	-	± 0.007	150	0.7	840.00
908.680	\varnothing 250-275	-	± 0.007	150	0.7	1,066.00
908.681	\varnothing 275-300	-	± 0.007	150	0.7	1,139.00

Option:

836.535 Spare battery

1.60



Item No.	Measuring range/mm	Setting rings \varnothing /mm	Extension mm	Number of instruments	Price EUR
906.900	\varnothing 6- 12	6, 8, 10	100	3	823.00
906.901	\varnothing 12- 20	16	150	2	529.00
906.902	\varnothing 20- 50	25, 40	150	4	1,120.00
906.903	\varnothing 50-100	62, 87	150	4	1,299.00

Digital three-point internal micrometers up to 1000 mm

Digital three-point internal micrometers with a large measuring range, for measuring internal dimensions like (blind) bores.

- Measuring range: \varnothing 50 - 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.
- Delivery in a case, incl. extension 150 mm.
- Separate instruments within measuring range \varnothing 50 - 100 mm and the sets are delivered incl. setting ring(s).
- Power supply: 1 battery type V357.



906.906

PRICE

Item No.	Measuring range/mm	Setting ring \varnothing /mm	Accuracy mm	Length L/mm	Length A/mm	Price EUR
906.904	\varnothing 50 - 70	50	± 0.004	107	0.5	325.00
906.905	\varnothing 70 - 100	70	± 0.004	107	0.5	435.00
906.906	\varnothing 100 - 150	—	± 0.005	107	0.5	718.00
906.907	\varnothing 150 - 250	—	± 0.007	107	0.5	1,471.00
906.908	\varnothing 200 - 300	—	± 0.007	107	0.5	2,060.00

Item No.	Measuring range/mm	Setting ring \varnothing /mm	Number of instruments	Price EUR
906.909	\varnothing 50 - 100	70	2	760.00
906.910	\varnothing 100 - 250	150	2	2,190.00

Option

Item No.	Description	Price EUR
836.535	Spare battery	1.60

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:
 $\pm (1 + 0.02L) \mu\text{m}$ (L in mm).
- Delivery in a case, incl. extensions and setting ring.



907.787

Item No.	Measuring range/mm	Setting ring \varnothing /mm	Length L/mm	Length A/mm	Extensions mm	Price EUR
907.787	\varnothing 200 - 500	200	105	0.5	150, 500	5,120.00
907.788	\varnothing 200 - 1000	200	105	0.5	150, 500, 1000	6,030.00

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.

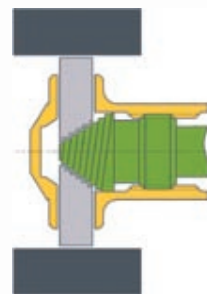
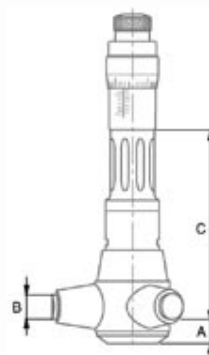
- Measuring range: \varnothing 3.5 - 300 mm.
- Graduation: 0.001 mm (\varnothing 3.5 - 12 mm),
0.005 mm (\varnothing 11 - 100 mm),
0.01 mm (\varnothing 100 - 300 mm).
- Measuring faces:
 \varnothing 3.5 - 12 mm: hardened steel,
 \varnothing 11 - 100 mm: titanium nitride (TiN),
 \varnothing 100 - 300 mm: tungsten carbide.
- DIN 863 T4.
- Delivery in a case with an inspection report and a declaration of conformity.



779.542



Item No.	Measuring range mm	Accuracy mm	Repeat-ability mm	Length/mm			Price EUR
				A	B	C	
779.571	\varnothing 3.5 - 4	± 0.004	0.004	2	1.5	20	642.00
779.572	\varnothing 4 - 4.5	± 0.004	0.004	2	1.5	20	642.00
779.573	\varnothing 4.5 - 5.5	± 0.004	0.004	2	1.5	25	645.00
779.574	\varnothing 5.5 - 6.5	± 0.004	0.004	2	1.5	25	645.00
779.481	\varnothing 6 - 8	± 0.004	0.004	2.5	2.5	52	385.00
779.482	\varnothing 8 - 10	± 0.004	0.004	2.5	2.5	52	388.00
779.483	\varnothing 10 - 12	± 0.004	0.004	2.5	2.5	52	389.00
779.497	\varnothing 11 - 14	± 0.004	0.004	3.5	4	77	441.00
779.498	\varnothing 14 - 17	± 0.004	0.004	3.5	4	77	445.00
779.499	\varnothing 17 - 20	± 0.004	0.004	3.5	4	77	448.00
779.515	\varnothing 20 - 25	± 0.004	0.004	7	7	78	484.00
779.516	\varnothing 25 - 30	± 0.004	0.004	7	7	78	493.00
779.517	\varnothing 30 - 35	± 0.004	0.004	7	7	78	499.00
779.518	\varnothing 35 - 40	± 0.004	0.004	7	7	78	503.00
779.539	\varnothing 40 - 50	± 0.005	0.005	11	12	84	596.00
779.540	\varnothing 50 - 60	± 0.005	0.005	11	12	84	607.00
779.541	\varnothing 60 - 70	± 0.005	0.005	11	12	84	618.00
779.542	\varnothing 70 - 80	± 0.005	0.005	11	12	84	626.00
779.543	\varnothing 80 - 90	± 0.005	0.005	11	12	84	638.00
779.544	\varnothing 90 - 100	± 0.005	0.005	11	12	84	661.00
779.553	\varnothing 100 - 125	± 0.006	0.006	26	18	81	1,062.00
779.554	\varnothing 125 - 150	± 0.006	0.006	26	18	81	1,056.00
779.555	\varnothing 150 - 175	± 0.007	0.007	26	18	81	1,072.00
779.556	\varnothing 175 - 200	± 0.007	0.007	26	18	81	1,103.00
779.562	\varnothing 200 - 225	± 0.008	0.008	26	18	81	1,476.00
779.563	\varnothing 225 - 250	± 0.008	0.008	26	18	81	1,492.00
779.564	\varnothing 250 - 275	± 0.008	0.008	26	18	81	1,553.00
779.565	\varnothing 275 - 300	± 0.008	0.008	26	18	81	1,600.00



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

TESA Imicro three-point internal micrometers in sets

- Measuring range: \varnothing 3.5 - 200 mm.
- Graduation: 0.001 mm (\varnothing 3.5 - 12 mm),
0.005 mm (\varnothing 11 - 100 mm),
0.01 mm (\varnothing 100 - 200 mm).



779.538

- Measuring faces:
 \varnothing 3.5 - 12 mm: hardened steel,
 \varnothing 11 - 100 mm: titanium nitride (TiN),
 \varnothing 100 - 200 mm: tungsten carbide.
- Delivery incl. setting rings, extension, screw driver and adjustment tool.

Item No.	Measuring range/mm	Extension mm	Price EUR
779.570	\varnothing 3.5 - 6.5	-	2,571.00
779.480	\varnothing 6 - 12	100	1,386.00
779.496	\varnothing 11 - 20	150	1,594.00
779.514	\varnothing 20 - 40	150	2,295.00
779.538	\varnothing 40 - 100	150	4,766.00
779.552	\varnothing 100 - 200	150	5,831.00

Centering device



779.664



Item No.	For meas. range/mm	Price EUR
779.664	\varnothing 40 - 100	1,900.00
779.681	\varnothing 100 - 200	2,542.00

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	\varnothing 6 - 12	88.00
779.623	150	\varnothing 11 - 20	108.00
779.624	500	\varnothing 11 - 20	553.00
779.625	150	\varnothing 20 - 40	121.00
779.626	500	\varnothing 20 - 40	633.00
779.627	1000	\varnothing 20 - 40	812.00

Item No.	Extension mm	For meas. range/mm	Price EUR
779.628	150	\varnothing 40 - 100	142.00
779.629	500	\varnothing 40 - 100	828.00
779.630	1000	\varnothing 40 - 100	1,060.00
779.631	150	\varnothing 100 - 300	173.00
779.632	500	\varnothing 100 - 300	898.00
779.633	1000	\varnothing 100 - 300	1,480.00

Etalon Intalometer three-point internal micrometers

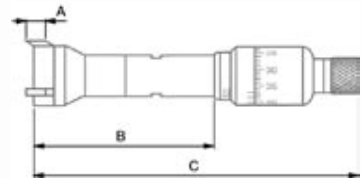
Etalon three-point internal micrometers are specially suited for fast and accurate measurements of the diameter of blind bores.

- Measuring range: ϕ 5 - 100 mm.
- Vernier: 0.002 mm.
- Angle of the measuring arms:
 - ϕ 5 - 10 mm: $2 \times 180^\circ$,
 - ϕ 10 - 20 mm: $3 \times 120^\circ$,
 - ϕ 20 - 100 mm: $90^\circ - 135^\circ - 135^\circ$.
- From ϕ 20 mm onwards, form errors can be detected because of the irregular location of the measuring arms.
- Measuring range 5 - 10 mm with two-point contact.
- Hardened steel measuring faces.
- DIN 863 T4 (from 10 to 100 mm).
- Delivery in a case with an inspection report and a declaration of conformity.
- Measuring ranges of ϕ 100 - 300 mm available on request. These instruments have interchangeable measuring bolts.

- Also available in sets, on request. Sets up to ϕ 100 mm consist of all complete instruments, extension and setting rings.

Extensions

Item No.	Extension mm	For measuring range/mm	Price EUR
836.224	100	ϕ 5 - 10	168.00
836.225	150	ϕ 10 - 20	202.00
836.226	150	ϕ 20 - 40	206.00
836.227	150	ϕ 40 - 100	250.00



836.215

Item No.	Measuring range/mm	Accuracy mm	Length/mm			Price EUR
			A	B	C	
836.206	ϕ 5 - 6	± 0.003	3	≥ 32	≤ 109	960.00
836.207	ϕ 6 - 7	± 0.003	3	≥ 33	≤ 111	960.00
836.208	ϕ 7 - 8.5	± 0.003	4	≥ 60	≤ 130	960.00
836.209	ϕ 8.5 - 10	± 0.003	4	≥ 72	≤ 133	960.00
836.210	ϕ 10 - 12.5	± 0.003	3	≥ 60	≤ 118	933.00
836.211	ϕ 12.5 - 15	± 0.003	3	≥ 63	≤ 120	933.00
836.212	ϕ 15 - 17.5	± 0.003	3	≥ 65	≤ 122	933.00
836.213	ϕ 17.5 - 20	± 0.003	3	≥ 68	≤ 125	933.00
836.214	ϕ 20 - 25	± 0.003	7	≥ 75	≤ 132	1,038.00
836.215	ϕ 25 - 30	± 0.003	7	≥ 80	≤ 138	1,038.00
836.216	ϕ 30 - 35	± 0.003	7	≥ 90	≤ 142	1,069.00
836.217	ϕ 35 - 40	± 0.003	7	≥ 90	≤ 148	1,069.00
836.218	ϕ 40 - 45	± 0.004	10.5	≥ 110	≤ 167	1,202.00
836.219	ϕ 45 - 50	± 0.004	10.5	≥ 113	≤ 170	1,202.00
836.220	ϕ 50 - 60	± 0.004	15	≥ 123	≤ 187	1,326.00
836.221	ϕ 60 - 70	± 0.004	15	≥ 130	≤ 193	1,326.00
836.222	ϕ 70 - 85	± 0.004	15	≥ 145	≤ 213	1,448.00
836.223	ϕ 85 - 100	± 0.004	15	≥ 155	≤ 224	1,448.00



TESA Tri-o-Bor three-point internal micrometers

TESA three-point internal micrometers for rapid and accurate measuring of internal dimensions, suited for through holes, blind bores and short centering shoulders.

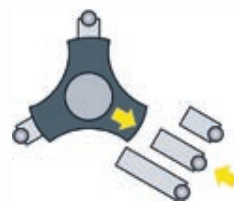
- Measuring range: \varnothing 15 - 120 mm.
- Graduation: 0.002 mm.
- Measuring heads with tungsten carbide measuring faces.
- DIN 863 T4.
- Delivery with an inspection report and a declaration of conformity.
- Interchangeable measuring bolts from measuring range \varnothing 60 mm.
- On request also available in complete sets or partial sets with separate measuring heads.



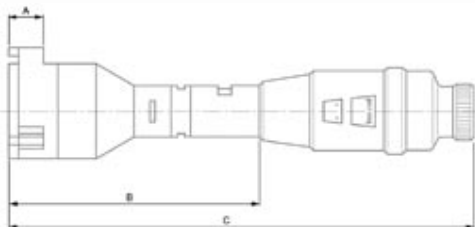
779.711

Complete instruments

Item No.	Measuring range/mm	Accuracy mm	Length/mm			Price EUR
			A	B	C	
779.700	\varnothing 15 - 20	± 0.004	6	≥ 66	≤ 132	1,025.00
779.701	\varnothing 20 - 25	± 0.004	6	≥ 66	≤ 132	1,035.00
779.702	\varnothing 25 - 30	± 0.004	6	≥ 66	≤ 132	1,047.00
779.709	\varnothing 30 - 40	± 0.004	10	≥ 70	≤ 138	1,193.00
779.710	\varnothing 40 - 50	± 0.004	10	≥ 70	≤ 138	1,227.00
779.711	\varnothing 50 - 60	± 0.005	10	≥ 70	≤ 138	1,256.00
779.717	\varnothing 60 - 70	± 0.005	18	≥ 78	≤ 147	1,346.00
779.718	\varnothing 70 - 80	± 0.005	18	≥ 78	≤ 147	1,353.00
779.719	\varnothing 80 - 90	± 0.005	18	≥ 78	≤ 147	1,362.00
779.727	\varnothing 90 - 100	± 0.005	18	≥ 78	≤ 147	1,457.00
779.728	\varnothing 100 - 110	± 0.006	18	≥ 78	≤ 147	1,464.00
779.729	\varnothing 110 - 120	± 0.006	18	≥ 78	≤ 147	1,471.00



Measuring heads > \varnothing 60 mm with interchangeable measuring bolts (on request also separately available).



Item No.	Measuring range/mm	Price EUR
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Measuring element without measuring head:

779.706	\varnothing 15 - 60	509.00
779.721	\varnothing 60 - 120	509.00

Measuring heads*:

779.703	\varnothing 15 - 20	516.00
779.704	\varnothing 20 - 25	533.00
779.705	\varnothing 25 - 30	553.00
779.712	\varnothing 30 - 40	691.00
779.713	\varnothing 40 - 50	725.00
779.714	\varnothing 50 - 60	754.00

* Larger measuring ranges available on request.

Extension

Item No.	Extension/mm	Price EUR
779.771	150	178.00

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: \varnothing 3.5 - 300 mm.
- Resolution: 0.001 mm.
- mm/inch conversion.
- ABS/INC switchable.
- Opto-RS232C data output, bidirectional.
- Automatic switch-off.
- Reset/preset.
- Measuring faces:
 - \varnothing 3.5 - 12 mm: hardened steel,
 - \varnothing 11 - 100 mm: titanium nitride (TiN),
 - \varnothing 100 - 300 mm: tungsten carbide.
- Protection: IP54.
(When using data output: IP40.)
- DIN 863 T4.
- Delivery in a case with an inspection report and a declaration of conformity.
- Power supply: 1 battery type CR2032.
- Electronic measuring elements, several sets, individual measuring heads and extensions available.



782.542



782.562



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	\varnothing 3.5 - 6.5	4,067.00
782.565	\varnothing 6 - 12	2,070.00
782.566	\varnothing 11 - 20	2,210.00
782.567	\varnothing 20 - 40	2,914.00
782.568	\varnothing 40 - 100	5,324.00
782.569	\varnothing 100 - 200	7,321.00

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	\varnothing 3.5 - 6.5	4,908.00
782.559	\varnothing 6 - 12	3,182.00
782.560	\varnothing 11 - 20	3,285.00
782.561	\varnothing 20 - 40	4,488.00
782.562	\varnothing 40 - 100	8,023.00
782.563	\varnothing 100 - 200	8,690.00

Extensions

Item No.	Extension mm	For measuring range/mm	Price EUR
779.609	100	\varnothing 6 - 12	88.00
779.623	150	\varnothing 11 - 20	108.00
779.625	150	\varnothing 20 - 40	121.00
779.628	150	\varnothing 40 - 100	142.00
779.631	150	\varnothing 100 - 200	173.00

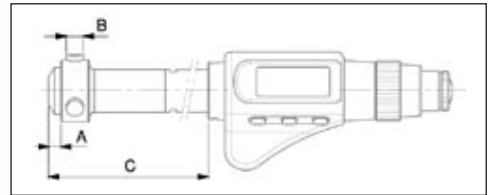
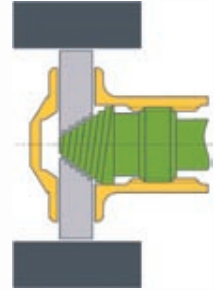
Options

Item No.	Description	Price EUR
495.157	Spare battery	0.50
781.854	TESA SPC printer	646.00
781.887	Cable to SPC printer	114.00
348.187	Foot switch for SPC printer	57.00

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			Price EUR
				A	B	C	
782.530	∅ 3.5 - 4	±0.004	0.004	2	1.5	20	1,292.00
782.531	∅ 4 - 4.5	±0.004	0.004	2	1.5	20	1,292.00
782.532	∅ 4.5 - 5.5	±0.004	0.004	2	1.5	25	1,292.00
782.533	∅ 5.5 - 6.5	±0.004	0.004	2	1.5	25	1,292.00
782.534	∅ 6 - 8	±0.004	0.004	2.5	2.5	79	1,044.00
782.535	∅ 8 - 10	±0.004	0.004	2.5	2.5	79	1,052.00
782.536	∅ 10 - 12	±0.004	0.004	2.5	2.5	79	1,062.00
782.537	∅ 11 - 14	±0.004	0.004	3.5	4	93	1,066.00
782.538	∅ 14 - 17	±0.004	0.004	3.5	4	93	1,072.00
782.539	∅ 17 - 20	±0.004	0.004	3.5	4	93	1,075.00
782.540	∅ 20 - 25	±0.004	0.004	7	7	91	1,084.00
782.541	∅ 25 - 30	±0.004	0.004	7	7	91	1,096.00
782.542	∅ 30 - 35	±0.004	0.004	7	7	91	1,112.00
782.543	∅ 35 - 40	±0.004	0.004	7	7	91	1,124.00
782.544	∅ 40 - 50	±0.005	0.005	11	12	104	1,164.00
782.545	∅ 50 - 60	±0.005	0.005	11	12	104	1,183.00
782.546	∅ 60 - 70	±0.005	0.005	11	12	104	1,217.00
782.547	∅ 70 - 80	±0.005	0.005	11	12	104	1,241.00
782.548	∅ 80 - 90	±0.005	0.005	11	12	104	1,267.00
782.549	∅ 90 - 100	±0.005	0.005	11	12	104	1,292.00
782.550	∅ 100 - 125	±0.006	0.006	26	18	100	1,739.00
782.551	∅ 125 - 150	±0.006	0.006	26	18	100	1,757.00
782.552	∅ 150 - 175	±0.007	0.007	26	18	100	1,978.00
782.553	∅ 175 - 200	±0.007	0.007	26	18	100	1,996.00
782.554	∅ 200 - 225	±0.008	0.008	26	18	100	2,063.00
782.555	∅ 225 - 250	±0.008	0.008	26	18	100	2,086.00
782.556	∅ 250 - 275	±0.008	0.008	26	18	100	2,108.00
782.557	∅ 275 - 300	±0.008	0.008	26	18	100	2,132.00

Roch Alesometer three-point internal micrometers

For measuring internal dimensions, such as through and blind bores, and short centering shoulders.

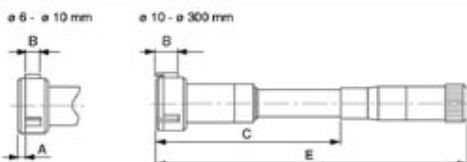
- Measuring range: $\varnothing 6 - 100$ mm.
- Vernier: 0.001 mm.
- Measuring inserts:
 - $\varnothing 6 - 10$ mm: hardened steel,
 - $\varnothing 10 - 100$ mm: tungsten carbide tipped.
- Several sets and extensions available.
- Delivery in a case with a declaration of conformity.
- Larger measuring ranges available on request.



Model like
782.679 - 782.688



Model like
782.689 - 782.693



782.705

Complete instruments

Item No.	Measuring range/mm	Accuracy mm	Length/mm				Price EUR
			A	B	C	E	
782.679*	$\varnothing 6 - 8$	± 0.004	1.2	3	54.5	107	497.00
782.680*	$\varnothing 8 - 10$	± 0.004	1.2	3	54.5	107	479.00
782.681	$\varnothing 10 - 12.5$	± 0.004	—	6.5	64.5	117	515.00
782.682	$\varnothing 12.5 - 15$	± 0.004	—	6.5	64.5	117	536.00
782.683	$\varnothing 15 - 17.5$	± 0.004	—	6.8	64.5	117	539.00
782.684	$\varnothing 17.5 - 20$	± 0.004	—	6.8	64.5	117	544.00
782.685	$\varnothing 20 - 25$	± 0.004	—	8.5	70	122.5	536.00
782.686	$\varnothing 25 - 30$	± 0.004	—	8.5	70	122.5	555.00
782.687	$\varnothing 30 - 35$	± 0.004	—	8.5	70	122.5	544.00
782.688	$\varnothing 35 - 40$	± 0.004	—	8.5	70	122.5	581.00
782.689	$\varnothing 40 - 50$	± 0.004	—	14.5	108.7	188.7	624.00
782.690	$\varnothing 50 - 60$	± 0.005	—	14.5	108.7	188.7	633.00
782.691	$\varnothing 60 - 70$	± 0.005	—	14.5	126.7	188.7	729.00
782.692	$\varnothing 70 - 85$	± 0.005	—	14.5	126.7	206.7	772.00
782.693	$\varnothing 85 - 100$	± 0.005	—	14.5	126.7	206.7	802.00

Sets

Item No.	Measuring range/mm	Price EUR
782.702*	$\varnothing 6 - 10$	1,091.00
782.703	$\varnothing 10 - 20$	2,283.00
782.704	$\varnothing 20 - 40$	2,477.00
782.705	$\varnothing 40 - 100$	4,151.00

* Not suitable for measuring blind bores of less than 1.2 mm depth.

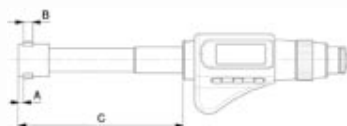
Extensions

Item No.	Extension mm	For measuring range/mm	Price EUR
782.672	100	$\varnothing 6 - 10$	128.00
782.673	100	$\varnothing 10 - 20$	140.00
782.674	150	$\varnothing 20 - 40$	262.00
782.675	150	$\varnothing 40 - 100$	272.00
782.676	200	$\varnothing 100 - 300$	298.00

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

The TESA Alesometer is a digital three-point internal micrometer with the patented *capa* μ measuring system, especially suitable for measuring internal dimensions, such as through and blind bores and short centering shoulders.

- Measuring range: ϕ 6-200 mm.
- Resolution: 0.001 mm.
- mm/inch conversion.
- Opto-RS232C data output, bidirectional.
- Automatic switch-off.
- Reset/preset.
- Hold function.
- Measuring inserts:
 - ϕ 6- 10 mm: hardened steel,
 - ϕ 10-200 mm: tungsten carbide tipped.
- Several sets and parts available.
- Protection: IP54.
(When using data output: IP40.)
- DIN 863 T4.
- Delivery in a case with an inspection report and a declaration of conformity.
- Power supply: 1 battery type CR2032.



Complete instruments

Item No.	Measuring range/mm	Accuracy mm	Repeatability mm	Length/mm			Price EUR
				A ²	B	C	
782.625 ¹	ϕ 6 - 8	± 0.004	0.004	1.2	3	55	1,060.00
782.626 ¹	ϕ 8 - 10	± 0.004	0.004	1.2	3	55	1,060.00
782.627	ϕ 10 - 12.5	± 0.004	0.004	–	6.5	65	1,109.00
782.628	ϕ 12.5- 15	± 0.004	0.004	–	6.5	65	1,109.00
782.629	ϕ 15 - 17.5	± 0.004	0.004	–	6.8	65	1,109.00
782.630	ϕ 17.5- 20	± 0.004	0.004	–	6.8	95	1,109.00
782.631	ϕ 20 - 25	± 0.004	0.004	–	8.5	100	1,176.00
782.632	ϕ 25 - 30	± 0.004	0.004	–	8.5	100	1,176.00
782.633	ϕ 30 - 35	± 0.004	0.004	–	8.5	100	1,176.00
782.634	ϕ 35 - 40	± 0.004	0.004	–	8.5	100	1,176.00
782.635	ϕ 40 - 50	± 0.005	0.005	–	14.5	140	1,315.00
782.636	ϕ 50 - 60	± 0.005	0.005	–	14.5	140	1,315.00
782.637	ϕ 60 - 70	± 0.005	0.005	–	14.5	140	1,315.00
782.638	ϕ 70 - 85	± 0.005	0.005	–	14.5	140	1,368.00
782.639	ϕ 85 - 100	± 0.005	0.005	–	14.5	140	1,368.00
782.640	ϕ 100 - 125	± 0.006	0.006	–	30	175	1,828.00
782.641	ϕ 125 - 150	± 0.006	0.006	–	30	175	1,934.00
782.642	ϕ 150 - 175	± 0.007	0.007	–	30	175	2,049.00
782.643	ϕ 175 - 200	± 0.007	0.007	–	30	175	2,187.00
Option:							
495.157 Spare battery							0.50

¹ The instruments in measuring range ϕ 6- 10 mm are not suitable for measuring blind bores of < 1.2 mm depth.

² Not applicable to the models from ϕ 10 mm.

TESA Alesometer digital three-point internal micrometers (continued)

The sets consist of 1 electronic measuring element, interchangeable measuring heads, setting rings and a connector in a case.



782.651

Item No.	Measuring range/mm	Price EUR
Sets:		
782.648*	ø 6 - 10	1,383.00
782.649	ø 10 - 20	2,317.00
782.650	ø 20 - 40	2,448.00
782.651	ø 40 - 100	4,199.00
Case for partial sets:		
782.677	ø 6 - 40	85.00
Electronic measuring element:		
782.671	All measuring ranges	496.00

Extensions

Item No.	Extension mm	For measuring range/mm	Price EUR
782.672	100	ø 6 - 10	128.00
782.673	100	ø 10 - 20	140.00
782.674	150	ø 20 - 40	262.00
782.675	150	ø 40 - 100	272.00
782.676	200	ø 100 - 300	298.00

Item No.	Measuring range/mm	Price EUR
Measuring heads:		
782.652*	ø 6 - 8	406.00
782.653*	ø 8 - 10	410.00
782.654	ø 10 - 12.5	419.00
782.655	ø 12.5 - 15	423.00
782.656	ø 15 - 17.5	425.00
782.657	ø 17.5 - 20	431.00
782.658	ø 20 - 25	447.00
782.659	ø 25 - 30	451.00
782.660	ø 30 - 35	459.00
782.661	ø 35 - 40	471.00
782.662	ø 40 - 50	583.00
782.663	ø 50 - 60	586.00
782.664	ø 60 - 70	596.00
782.665	ø 70 - 85	732.00
782.666	ø 85 - 100	762.00
Connectors:		
782.667	ø 6 - 10	117.00
782.668	ø 10 - 20	119.00
782.669	ø 20 - 40	123.00
782.670	ø 40 - 100	131.00

* The instruments in measuring range ø 6 - 10 mm are not suitable for measuring blind bores of < 1.2 mm depth.

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: \varnothing 6-300 mm.
- Analog: graduation 0.001 mm (\varnothing 6- 12 mm),
0.005 mm (\varnothing 12-300 mm),
digital: resolution 0.001 mm.
- Measuring faces:
 \varnothing 6- 12 mm: tungsten carbide, with titanium nitride (TiN) coating,
 \varnothing 12-300 mm: hardened steel, with titanium nitride (TiN) coating.
- Tungsten carbide cone and contact point of the spindle.
- No-glare chrome finished thimble.
- DIN 863 T4.
- Delivery in a case with a manufacturer's certificate.
- Sets are delivered incl. setting rings and extension.

- Digital**
- Digimatic data output.
 - Automatic switch-off.
 - Reset/preset.
 - Hold function.
 - Protection: IP65.
 - Power supply: 1 battery type V357.
 - The sets of the digital models consist of one instrument with interchangeable measuring heads.



Measuring range/mm	Accuracy mm	Item No.	Price EUR	Item No.	Price EUR
		Analog:		Digital:	
\varnothing 6- 8	± 0.002	368.161	324.00	468.161	903.00
\varnothing 8- 10	± 0.002	368.162	324.00	468.162	923.00
\varnothing 10- 12	± 0.002	368.163	324.00	468.163	938.00
\varnothing 12- 16	± 0.002	368.164	383.00	468.164	959.00
\varnothing 16- 20	± 0.002	368.165	393.00	468.165	969.00
\varnothing 20- 25	± 0.003	368.166	403.00	468.166	1,051.00
\varnothing 25- 30	± 0.003	368.167	413.00	468.167	1,051.00
\varnothing 30- 40	± 0.003	368.168	423.00	468.168	1,081.00
\varnothing 40- 50	± 0.003	368.169	434.00	468.169	1,102.00
\varnothing 50- 63	± 0.003	368.170	489.00	468.170	1,153.00
\varnothing 62- 75	± 0.003	368.171	510.00	468.171	1,163.00
\varnothing 75- 88	± 0.003	368.172	520.00	468.172	1,173.00
\varnothing 87- 100	± 0.003	368.173	530.00	468.173	1,219.00
\varnothing 100- 125	± 0.005	368.174	794.00	468.174	1,561.00
\varnothing 125- 150	± 0.005	368.175	846.00	468.175	1,673.00
\varnothing 150- 175	± 0.005	368.176	887.00	468.176	1,836.00
\varnothing 175- 200	± 0.005	368.177	909.00	468.177	1,938.00
\varnothing 200- 225	± 0.005	368.178	982.00	468.178	2,050.00
\varnothing 225- 250	± 0.005	368.179	1,009.00	468.179	2,111.00
\varnothing 250- 275	± 0.005	368.180	1,051.00	468.180	2,173.00
\varnothing 275- 300	± 0.005	368.181	1,158.00	468.181	2,280.00

Sets

Measuring range/mm	Extension mm	Item No.	Price EUR	Item No.	Price EUR
		Analog:		Digital:	
\varnothing 6- 12	100	368.911	862.00	468.971	1,680.00
\varnothing 12- 20	150	368.912	745.00	468.972	1,470.00
\varnothing 20- 50	150	368.913	1,709.00	468.973	2,438.00
\varnothing 50- 100	150	368.914	2,009.00	468.974	3,488.00
\varnothing 100- 200	150	368.915	4,095.00	468.975	5,043.00



Extensions

Item No.	Extension mm	For measuring range/mm	Price EUR
952.322	100	\varnothing 6- 12	93.00
952.621	150	\varnothing 12- 20	93.00
952.622	150	\varnothing 20- 50	103.00
952.623	150	\varnothing 50- 300	179.00

Option

Item No.	Description	Price EUR
836.535	Spare battery	1.60



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

368.914

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 the graphical display is 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: \varnothing 6 - 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 case.
- Power supply: 1 battery type V357.

Item No.	Measuring range/mm	Accuracy/mm	Price EUR
568.361	\varnothing 6 - 8	± 0.005	1,148.00
568.362	\varnothing 8 - 10	± 0.005	1,148.00
568.363	\varnothing 10 - 12	± 0.005	1,148.00
568.364	\varnothing 12 - 16	± 0.005	1,173.00
568.365	\varnothing 16 - 20	± 0.005	1,173.00
568.366	\varnothing 20 - 25	± 0.006	1,250.00
568.367	\varnothing 25 - 30	± 0.006	1,250.00
568.368	\varnothing 30 - 40	± 0.006	1,357.00
568.369	\varnothing 40 - 50	± 0.006	1,357.00
568.370	\varnothing 50 - 63	± 0.006	1,418.00
568.371	\varnothing 62 - 75	± 0.006	1,448.00
568.372	\varnothing 75 - 88	± 0.006	1,494.00
568.373	\varnothing 87 - 100	± 0.006	1,494.00
568.374	\varnothing 100 - 113	± 0.006	1,581.00
568.375	\varnothing 112 - 125	± 0.006	1,607.00

Options:

836.535	Spare battery	1.60
952.322	Extension 100 mm for Borematic \varnothing 6 - 12 mm	93.00
952.621	Extension 150 mm for Borematic \varnothing 12 - 20 mm	93.00
952.622	Extension 150 mm for Borematic \varnothing 20 - 50 mm	103.00
952.623	Extension 150 mm for Borematic \varnothing 50 - 300 mm	179.00

Sets

Sets consist of one measuring instrument with interchangeable measuring heads and setting rings.

Item No.	Measuring range/mm	Setting rings \varnothing /mm	Price EUR
568.924	\varnothing 6 - 12	8, 10	1,663.00
568.925	\varnothing 12 - 25	16, 20	1,785.00
568.926	\varnothing 25 - 50	30, 40	2,101.00
568.927	\varnothing 50 - 100 ¹	62, 87	3,570.00

¹ Measuring range by means of two sets of interchangeable measuring inserts per measuring head.



568.368

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



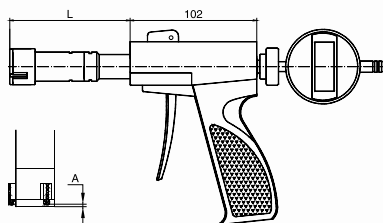
Three-point internal micrometers

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: \varnothing 6- 100 mm.
- Measuring depth: 0- 270 mm.
- Read-out depends on the type of dial indicator or measuring probe.
- Clamping shaft: \varnothing 8 mm.
- Self-centering.
- Excl. dial indicator or measuring probe.
- Tungsten carbide measuring faces.
- Conforms to factory standard.
- Delivery in a case.



For suitable dial indicators refer to the dial indicators with determination of the reversal point.



Separate instruments

Item No.	Measuring range/mm	Accuracy mm	Setting ring \varnothing /mm	Extension mm	Length/mm		Price EUR
					L	A	
907.770	\varnothing 6- 8	± 0.004	8	100	50	2	207.00
907.771	\varnothing 8- 10	± 0.004	8	100	50	2	208.00
907.772	\varnothing 10- 12	± 0.004	10	100	50	2	237.00
907.773	\varnothing 12- 16	± 0.004	16	150	65	0.5	240.00
907.774	\varnothing 16- 20	± 0.004	16	150	65	0.5	254.00
907.775	\varnothing 20- 25	± 0.004	25	150	91	0.5	271.00
907.776	\varnothing 25- 30	± 0.004	25	150	91	0.5	289.00
907.777	\varnothing 30- 40	± 0.004	40	150	97	0.5	310.00
907.778	\varnothing 40- 50	± 0.005	40	150	97	0.5	331.00
907.779	\varnothing 50- 63	± 0.005	62	150	112	0.5	352.00
907.780	\varnothing 62- 75	± 0.005	62	150	112	0.5	375.00
907.781	\varnothing 75- 88	± 0.005	87	150	112	0.5	399.00
907.782	\varnothing 87- 100	± 0.005	87	150	112	0.5	425.00

Sets

Item No.	Measuring range/mm	Setting ring(s) \varnothing /mm	Number of pistol grips	Extension mm	Price EUR
907.783	\varnothing 6- 12	8, 10	1	100	570.00
907.784	\varnothing 12- 20	16	1	150	420.00
907.785	\varnothing 20- 50	25, 40	2	150	1,035.00
907.786	\varnothing 50- 100	62, 87	1	150	1,272.00

TESA internal measuring instrument sets with dial indicator

Internal measuring instruments consisting of a holder (clamping shaft $\varnothing 8$ mm) with a screwed-in measuring element with needle.

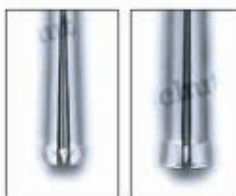
- Measuring range: 0.47 - 12.20 mm.
- Measuring range dial indicator: 0 - 5 mm.
- Graduation: 0.01 mm.
- Clamping shaft: $\varnothing 8$ mm.
- Interchangeable measuring inserts.



779.985

- Measuring elements: hardened, dull-chrome plated steel.
- Measuring needles: hardened steel.
- Measuring elements and needles on request separately available.
- Delivery in a case incl. dial indicator, holder, measuring heads, measuring needles, setting rings and extension 10 mm (780.795*).

* Needed when the distance between the housing and the contact point of the dial indicator is less than 40 mm.



Measuring element with measuring needle for through bores

Measuring element with measuring needle for blind bores (on request)



Item No.	Measuring range/mm	Price EUR
Complete sets for through bores:		
779.983	0.47 - 0.97	3,099.00
779.984	0.95 - 2.45	3,310.00
779.985	2.30 - 6.20	2,344.00
779.986	6.00 - 12.20	2,447.00

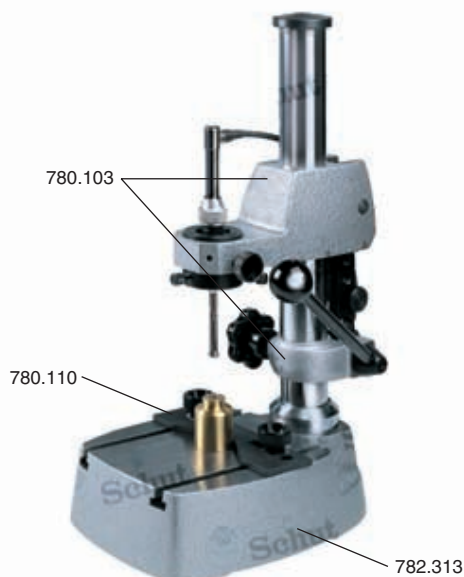


TESA measuring stand

Enables rapid and accurate inspection of bores.

- Clamping shaft: $\varnothing 13$ mm.
- Vertical travel: 35, 57 or 80 mm.
- Effective arm length: 60 mm.
- Base dimensions: 185 x 130 mm.
- Height: 308 mm.

Item No.	Description	Price EUR
782.313	Stand (without measuring arm)	527.00
780.103	Sliding measuring arm with floating holder for internal measuring instruments	1,176.00
780.110	Depth stop plate	172.00



Internal measuring instruments

- Measuring range: 6 - 450 mm.
- Read-out depends on the type of dial indicator.
- Incl. standard dial indicator 0 - 3 mm / 0.01 mm.
- Clamping shaft: \varnothing 8 mm.
- Self-centering (except 907.230).
- Interchangeable measuring inserts with tungsten carbide stylus tip (907.230 with spherical measuring face).
- Also suitable for various dial indicators from e.g. Mitutoyo, TESA, Käfer and Peacock with clamping stem \varnothing 8 mm.



Item No.	Measuring range/mm	Measuring depth/mm	Price EUR
907.230	6 - 10	40	73.00
907.231	10 - 18	100	76.00
907.232	18 - 35	125	59.00
907.233	35 - 50	150	59.00
907.235	50 - 160	150	59.00
907.236	160 - 250	400	79.00
907.237	250 - 450	400	85.00



907.235 + 907.933

NEW



Optional dial indicators

Item No.	Measuring range/mm	Read-out mm	Accuracy mm	Price EUR
Analog:				
907.933	0 - 10	0.01	-	14.90
Digital (with determination of the reversal point):				
907.879	0 - 12.7	0.001	± 0.01	100.00
907.878	0 - 12.7	0.001	± 0.005	154.00
909.250	0 - 12.5	0.002	± 0.015	87.00
909.251	0 - 12.5	0.001	± 0.006	194.00
910.004	0 - 12.7	0.001	± 0.004	144.00



Peacock internal measuring instruments

- Measuring range: 6 - 400 mm.
- Read-out depends on the type of dial indicator.
- Clamping shaft: $\varnothing 8$ mm.
- Self-centering.
- Interchangeable measuring inserts with tungsten carbide stylus tip.
- Also suitable for various dial indicators from e.g. Mitutoyo, TESA and Käfer with clamping stem $\varnothing 8$ mm.



855.160



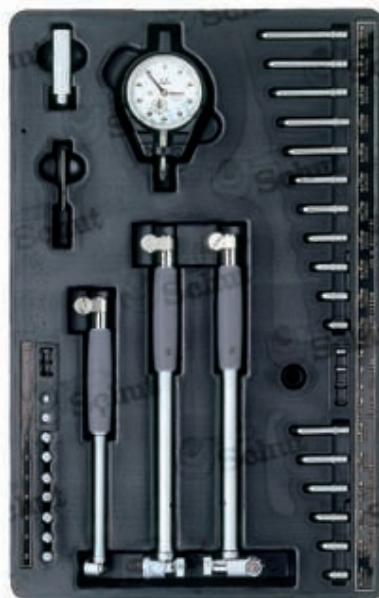
855.507

Item No.	Measuring range/mm	Measuring depth/mm	Price EUR
855.010	6 - 10	50	204.00
855.018	10 - 18	100	196.00
855.035	18 - 35	150	132.00
855.060	35 - 60	150	137.00
855.150	50 - 150	150	162.00
855.160	100 - 160	250	295.00
855.250	160 - 250	250	324.00
855.260	250 - 400	400	540.00
Option:			
855.507	Peacock dial indicator 0 - 10 mm, graduation 0.01 mm		31.30

Mitutoyo bore gauge set with dial indicator

Bore gauge set for measurement of holes and bores. The three measuring heads and three sets of measuring needles cover a measuring range of 18 - 150 mm.

- Measuring range: 18 - 150 mm.
- Measuring range dial indicator: 0 - 10 mm.
- Measuring depth:
 - 18 - 35 mm: 100 mm,
 - 35 - 150 mm: 150 mm.
- Graduation: 0.01 mm.
- Clamping shaft: $\varnothing 8$ mm.
- Interchangeable measuring inserts with tungsten carbide stylus tip.
- Plastic cover for dial indicator.
- Several accessories available.
- Delivery in a case incl. dial indicator (204.612), three measuring heads and three sets of measuring inserts.



Item No.	Measuring range/mm	Price EUR
511.921	18 - 150	430.00

Mitutoyo Absolute Digimatic internal measuring instrument

Internal measuring instrument with the absolute system for measurements in holes and tubes up to a depth of 2 m with an accuracy of ± 0.003 mm! Because the measuring system is built-in in the foot, the use of extensions does not influence the accuracy.

- Measuring range: 45 - 100 mm.
- Measuring depth with extensions: up to 2150 mm.
- Resolution: 0.001 mm.
- mm/inch conversion.
- Rotatable display.
- Digimatic data output.
- On/off switch.
- Preset.
- Hold function.
- Max. measuring speed: any.
- Max. measuring force: ≤ 5 N.
- Travel: 1.2 mm.
- Adjustable tolerance limits.
- Protection: IP53.
- Delivery in a case.
- Power supply: 2 batteries type V357.

Item No.	Measuring range/mm	Accuracy mm	Price EUR
511.501	45 - 100	± 0.003	1,122.00
Options:			
836.535	Spare battery (2 needed)		1.60
210.089	Extension 250 mm		442.00
210.081	Extension 500 mm		504.00

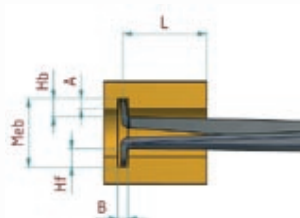


Kroepelin digital internal measuring instruments (3-point)

Kroepelin digital internal measuring instruments (3-point) for easier centering.

- Measuring range: 7 - 105 mm.
- Resolution: 0.002 or 0.005 mm.
- mm/inch conversion.
- ABS/INC switchable.
- With tolerance display.
- Protection: IP67.
- Delivery in a case with an inspection report.
- Power supply: 2 batteries AAA.

NEW



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	1.5	②	5.8
854.718	85	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	Resolution mm	Accuracy mm	Repeatability mm	Price EUR
854.715	7- 14	0.002	±0.01	0.004	424.80
854.716	10- 20	0.005	±0.02	0.01	424.80
854.717	15- 30	0.005	±0.02	0.01	424.80
854.718	25- 45	0.005	±0.02	0.01	424.80
854.719	40- 60	0.005	±0.02	0.01	424.80
854.720	55- 75	0.005	±0.02	0.01	424.80
854.721	70- 90	0.005	±0.02	0.01	424.80
854.722	85- 105	0.005	±0.02	0.01	424.80

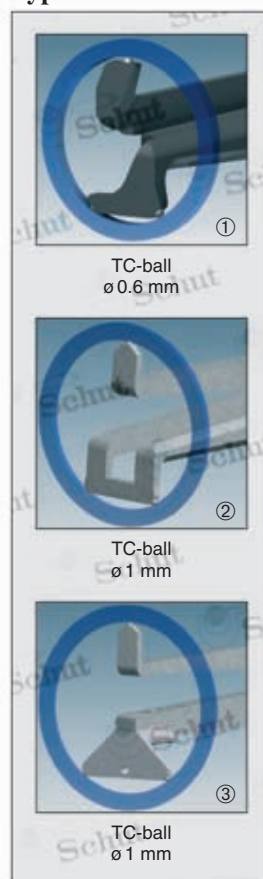
Options:

497.914	Spare battery type AAA	0.40
854.952*	Interface	37.90
965.013*	Digimatic cable	59.00
206.380*	USB cable	102.00
102.790*	U-WAVE cable	87.00

* For data output is an interface and cable needed. Only for new instruments with serial number ≥ I.



Types of inserts

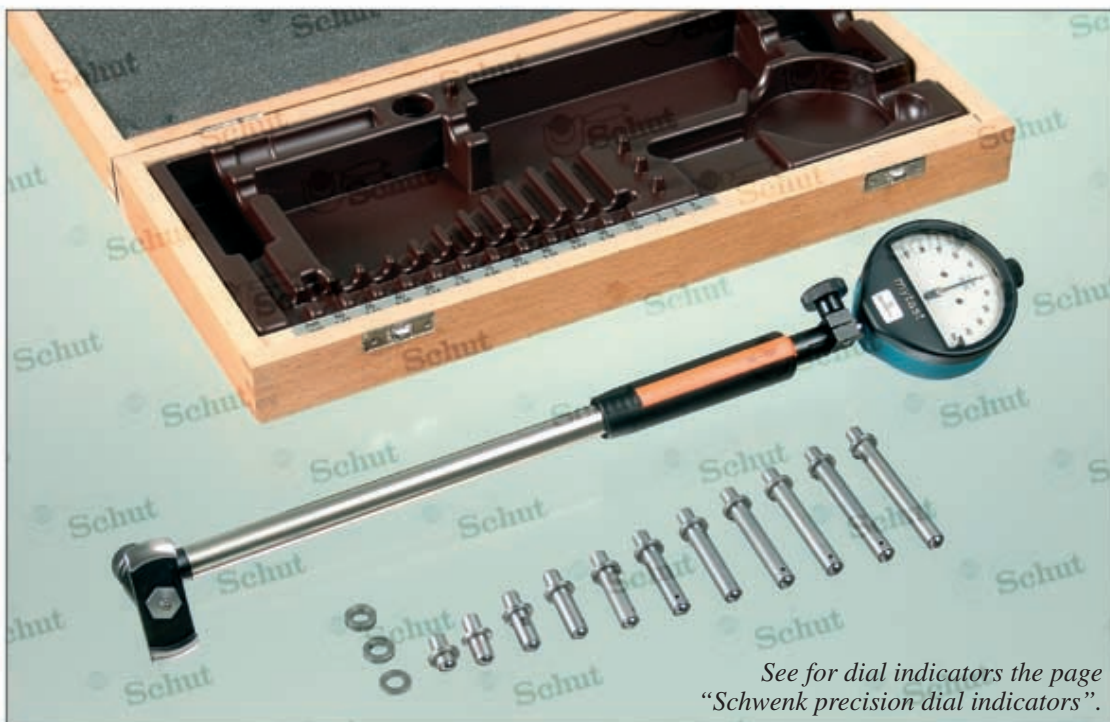


Schwenk internal measuring instruments

These internal measuring instruments are used for measuring cylindrical bores and form deviations compared to standards, for example, setting rings. In order to read out the measured values, any existing dial indicator or measuring probe with a clamping stem of $\varnothing 8$ mm can be used. The reversal point marks the right diameter of the bores. With digital indicators, it is recommended to use types that have a hold function for minimal measuring values.

- 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: $\varnothing 8$ mm.
- Self-centering bridge.
- Fixed measuring probe supplied with tungsten carbide ball tip. 
- Interchangeable probes standard supplied with tungsten carbide ball tip.
- Interchangeable probes also available with steel or ruby ball tip.
- Centering bridge available with a durable layer.
- Delivery in a case incl. probes, spacer rings (from 12 mm) and measuring report.
- Excl. dial indicator or measuring probe.

Item No.	Measuring range/mm	Measuring depth/mm	Price EUR
852.500	4.5 - 6	80	783.00
852.501	6 - 8	100	545.00
852.502	8 - 12	100	519.00
852.503	12 - 20	110	354.00
852.504	18 - 35	110	366.00
852.505	35 - 60	177	351.00
852.506	50 - 100	177	401.00
852.507	50 - 150	177	413.00
852.508	100 - 160	234	520.00
852.509	100 - 230	234	540.00
852.510	160 - 290	234	702.00
852.511	160 - 360	234	722.00
852.512	280 - 410	400	1,633.00
852.513	280 - 510	400	1,657.00
852.514	500 - 800	700	2,460.00



See for dial indicators the page
"Schwenk precision dial indicators".

Schwenk internal measuring instruments for great depths

Special series of internal measuring instruments with extra long handles for measuring cylindrical 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: $\varnothing 8$ mm.
- Self-centering bridge with wear resistance coating.
- Fixed measuring probe supplied with tungsten carbide ball tip.
- Interchangeable probes supplied with tungsten carbide ball tip.
- Delivery in a case incl. interchangeable probes 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 1,530.00							
6 - 8	852.521 1,107.00	852.522 1,221.00	852.523 1,276.00	852.524 1,352.00				
8 - 12	852.525 1,069.00	852.526 1,175.00	852.527 1,247.00	852.528 1,306.00				
12 - 20	852.529 658.00	852.530 849.00	852.531 891.00	852.532 975.00				
18 - 35	852.533 646.00	852.534 785.00	852.535 903.00	852.536 1,031.00	852.537 1,149.00			
35 - 60	852.538 628.00	852.539 772.00	852.540 887.00	852.541 1,102.00	852.542 1,136.00	852.543 1,153.00	852.544 1,241.00	852.545 1,556.00
50 - 100	852.546 764.00	852.547 903.00	852.548 933.00	852.549 1,196.00	852.550 1,247.00	852.551 1,297.00	852.552 1,466.00	852.553 1,691.00
50 - 150	852.554 785.00	852.555 924.00	852.556 955.00	852.557 1,217.00	852.558 1,268.00	852.559 1,323.00	852.560 1,488.00	852.561 1,717.00
100 - 160		852.562 1,051.00	852.563 1,200.00	852.564 1,349.00	852.565 1,428.00	852.566 1,594.00	852.567 1,695.00	852.568 1,920.00
100 - 230		852.569 1,085.00	852.570 1,234.00	852.571 1,382.00	852.572 1,466.00	852.573 1,632.00	852.574 1,729.00	852.575 1,954.00
160 - 290		852.576 1,433.00	852.577 1,581.00	852.578 1,717.00	852.579 1,810.00	852.580 2,280.00	852.581 2,410.00	852.582 2,630.00
160 - 360		852.583 1,472.00	852.584 1,619.00	852.585 1,755.00	852.586 1,843.00	852.587 2,310.00	852.588 2,440.00	852.589 2,660.00
280 - 410		852.590 2,530.00	852.591 2,640.00	852.592 3,160.00	852.593 3,220.00	852.594 3,450.00	852.595 3,950.00	852.596 4,320.00
280 - 510		852.597 2,570.00	852.598 2,680.00	852.599 3,210.00	852.600 3,260.00	852.601 3,500.00	852.602 3,990.00	852.603 4,370.00
500 - 800				852.604 4,140.00	852.605 4,250.00	852.606 4,430.00	852.607 4,960.00	852.608 5,320.00

See for dial indicators the page "Schwenk precision dial indicators".

Schwenk internal measuring instruments with ball probes

Special internal measuring instruments for measuring profiles and internal toothings without 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: $\varnothing 8$ mm.

- Ball probes available from $\varnothing 0.5$ mm, rising with 0.001 mm.
Deviation diameter: < 0.002 mm.
- Delivery in a case incl. interchangeable inserts and spacer ring(s).
- Excl. ball probes and dial indicator or measuring probe.



Item No.	Measuring range/mm	Measuring depth/mm	Price EUR	Item No.	Set of ball probes ¹	Price EUR
852.625	8 - 12	100	703.00	852.626	\varnothing optional, ≤ 2 mm (M1.6)	132.00
852.627	12 - 22	102	667.00	852.628	\varnothing optional, ≤ 4 mm (M1.6)	125.00
852.629	22 - 55	110	498.00	852.630	\varnothing optional, ≤ 7 mm (M2.5)	125.00
				852.631	\varnothing optional, > 7 mm (M2.5)	167.00
				852.635	Adapter for ball probes (M1.6/M2.5)	26.30
852.632	55 - 250	177	545.00	852.633	\varnothing optional, ≤ 7 mm (M4)	125.00
852.636	100 - 510	235	644.00	852.634	\varnothing optional, > 7 mm (M4)	167.00

See for dial indicators the page "Schwenk precision dial indicators".

¹ Choice ball probe diameter limited to standard sizes.

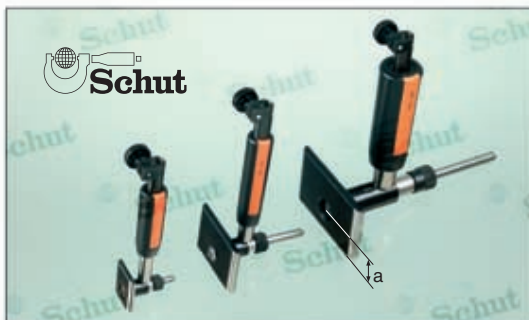
See for standard sizes the page "Schwenk carbide precision measuring balls".

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. In this way, the 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: $\varnothing 8$ 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 case incl. interchangeable probes and spacer rings.
- Excl. dial indicator or measuring probe.

Item No.	Measuring range/mm	a mm	Price EUR
852.610	20- 35	21	455.00
852.611	35- 55	23	437.00
852.612	50- 80	24	499.00
852.613	80-120	24	499.00
852.614	120-170	30	648.00



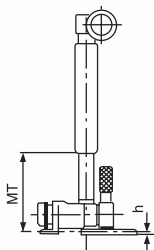
See for dial indicators the page "Schwenk precision dial indicators".

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 ruling and tothing, 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: $\varnothing 8$ 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 case incl. interchangeable 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	669.00
852.616	20- 60	77	1.5	707.00
852.617	50-110	60	1.5	648.00
852.618	50-140	60	1.5	691.00
852.619	110-300	90	2.0	906.00
852.620	110-400	90	2.0	1,096.00

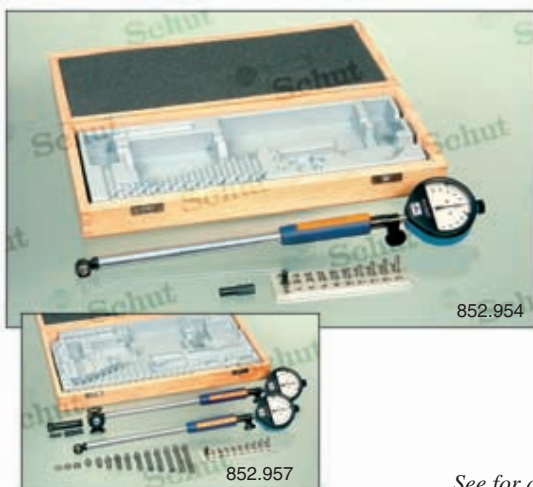


See for dial indicators the page "Schwenk precision dial indicators".

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: $\varnothing 8$ 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 case incl. interchangeable probes and spacer rings. Excl. setting rings and dial indicator or measuring probe.



Item No.	Measuring range/mm	Measuring depth/mm	Price EUR
852.954	18 - 35	176	200.00
852.955	35 - 60	178	194.00
852.956	50 - 150	178	226.00
852.957	18 - 150	178	392.00

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 may be smooth or rough.

- Measuring range: 14 - 180 mm.
- Graduation: 0.1 mm.
- Stainless steel strip.
- Tape width: 20 mm.
- Delivery in a case.
- Available on request:
 - for larger diameters up to 330 mm,
 - with measuring report,
 - digital model (incl. display).



Item No.	Measuring range/mm	Price EUR
852.683	14 - 24	582.00
852.684	22 - 40	570.00
852.685	35 - 60	255.00
852.697	55 - 100	271.00
852.937	95 - 180	338.00



TESA CNC presetting bench units TPS 300/500/1000

The TESA TPS CNC universal presetting benches are specially designed for checking and presetting all kind of 2-point and 3-point handheld tools used for both internal and external measurements up to 1040 mm. The need for a wide variety of setting standards such as ring gauges and gauges blocks is eliminated. By using universal accessories the instrument is suitable for presetting and checking micrometers, calipers, dial indicators, dial test indicators, three-point internal micrometers and internal measuring instruments from various manufacturers.

- The preset values and the motorized position movement allow instantaneous use of the instrument.
- All entered preset values respect ISO/DIN 286 tolerances. Individual tolerances can be programmed.
- Internal measuring range:
 - TPS 300: 4.5 - 305 mm,
 - TPS 500: 4.5 - 508 mm,
 - TPS 1000: 10 - 1016 mm.
- External measuring range:
 - TPS 300: 40 - 330 mm,
 - TPS 500: 40 - 532 mm,
 - TPS 1000: 40 - 1040 mm.
- Resolution: 0.001 mm.
- Accuracy at 20±0.5°C and a relative humidity of 50±5%: $\pm(1.5 + L/300) \mu\text{m}$ (L in mm).
- Repeatability: 0.001 mm.
- RS232C data output.
- Measuring force: 10 N.
- Dimensions and weight:
 - TPS 300: 610 x 300 x 270 mm, 50 kg,
 - TPS 500: 820 x 300 x 300 mm, 75 kg,
 - TPS 1000: 1330 x 340 x 300 mm, 300 kg.
- Three rubber feet acting like vibration inhibitors.
- Delivery with an inspection report and a declaration of conformity.
- Power supply: 80 - 240 V, 50 - 60 Hz.



Item No.	Type	Price EUR
782.848	TPS 300	
782.849	TPS 500	
782.850	TPS 1000	

Options

Item No.	Measuring range/mm	Price EUR
Self-centering internal meas. instr. (2-point):		
782.951	4.5 - 6	
782.952	6 - 12.5	
782.953	12 - 25	
782.954	25 - 50	
782.955	50 - 150	
782.956	150 - 300	
782.957	240 - 550	
Internal meas. instr. (2-point, small bores):		
782.959	6 - 12.5	
Internal measuring instruments (2-point):		
782.961*	10 - 150	
Micrometers and external meas. instruments:		
782.960*	40 - 1040	
TESA Inotest:		
782.962*	50 - 1040	
Dial indicators (clamping stem $\varnothing 8$ mm):		
782.966	10 - 150	
Dial test indicators:		
782.967	Dial indicator stand	

* Two needed.



Ask for
the detailed
brochure

Mitutoyo setting instrument for internal measuring instruments

This instrument offers you the best way to accurately zero-set your internal measuring instruments with dial indicator. Gauge blocks are used to set the exact reference value. The special receivers 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.



Item No.	Adjustment range/mm	Price EUR
515.590	18 - 400	1,356.00

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.
- Delivery in a case.



Item No.	Adjustment range/mm	Price EUR
515.585	25 - 300	1,513.00
515.586	25 - 600	3,194.00

Setting instrument for internal measuring instruments

This instrument offers you the best way to accurately zero-set your internal measuring instruments with dial indicator. Gauge blocks are used to set the exact reference value. The special receiver 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 case.



Item No.	Adjustment range/mm	Price EUR
907.877	18-400	497.00

Setting gauges for inside micrometers

Used for setting of inside micrometers.

- Measuring range: 0-275 mm.



NEW



Item No.	Length mm	Accuracy mm	Parallelism mm	Price EUR
910.005	50	±0.003	0.003	24.10
910.006	75	±0.004	0.004	33.70
910.007	100	±0.005	0.005	43.00
910.008	150	±0.005	0.005	63.00
910.009	200	±0.005	0.005	87.00
910.010	250	±0.005	0.005	120.00
910.011	275	±0.005	0.005	140.00

Stick micrometers

- Measuring range: 50 - 600 mm.
- Graduation: 0.01 mm.
- Locking screw (except 906.078).
- Spherical tungsten carbide measuring faces.
- With insulating grips (only 906.083 - 906.099).

- Graduation is engraved by means of a laser.
- Excl. setting gauge.



906.080



906.096



Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.078	50 - 75	±0.006	33.60
906.079	75 - 100	±0.006	38.20
906.080	100 - 125	±0.006	43.00
906.081	125 - 150	±0.008	47.00
906.082	150 - 175	±0.008	51.00
906.083	175 - 200	±0.008	53.00
906.084	200 - 225	±0.009	60.00
906.085	225 - 250	±0.009	61.00
906.086	250 - 275	±0.009	63.00
906.087	275 - 300	±0.009	67.00
906.088	300 - 325	±0.009	72.00

Item No.	Measuring range/mm	Accuracy mm	Price EUR
906.089	325 - 350	±0.009	78.00
906.090	350 - 375	±0.010	83.00
906.091	375 - 400	±0.010	89.00
906.092	400 - 425	±0.010	101.00
906.093	425 - 450	±0.010	105.00
906.094	450 - 475	±0.011	110.00
906.095	475 - 500	±0.011	115.00
906.096	500 - 525	±0.011	124.00
906.097	525 - 550	±0.011	124.00
906.098	550 - 575	±0.011	128.00
906.099	575 - 600	±0.011	133.00

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: $\pm(3+n+L/50)$ μm ,
906.919 - 906.923: $\pm(7+n+L/50)$ μm
(n = number of extensions,
 L = max. measuring length in mm).
- Locking screw.
- 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 - 906.918).
- Delivery in a case.



906.918

Item No.	Measuring range/mm	Number of extensions	Price EUR
906.911*	50 - 63	—	60.00
906.912	50 - 100	2	63.00
906.913	50 - 150	3	67.00
906.914	50 - 300	5	91.00
906.915	50 - 500	6	114.00
906.916	50 - 1000	8	365.00
906.917	50 - 1500	10	714.00
906.918	150 - 2000	9	818.00
906.919*	1000 - 1050	—	325.00
906.920	1000 - 2000	5	700.00
906.921	1000 - 3000	6	1,401.00
906.922	1000 - 4000	7	2,800.00
906.923	1000 - 5000	8	5,200.00



* Single instrument (without extensions).

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.
- Insert shaft: $\varnothing 5$ 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	± 0.025	74.00
906.925	100 - 125	± 0.028	83.00
906.926	125 - 150	± 0.030	92.00
906.927	150 - 175	± 0.033	100.00
906.928	175 - 200	± 0.035	109.00
906.929	200 - 225	± 0.038	113.00
906.930	225 - 250	± 0.040	127.00
906.931	250 - 275	± 0.043	129.00
906.932	275 - 300	± 0.045	144.00

Item No.	Pitch/mm	Price EUR
Inserts for metric threads, 60° flank angle, per pair:		
906.933	0.4 - 0.5	16.10
906.934	0.6 - 0.9	16.10
906.935	1 - 1.75	17.30
906.936	2 - 3	17.30
906.937	3.5 - 5	17.30
906.938	5.5 - 7	17.30
906.939	Set 0.4 - 7	87.00

Item No.	Threads per inch	Price EUR
Inserts for Whitworth threads, 55° flank angle, per pair:		
906.940	60 - 48	17.30
906.941	48 - 40	17.30
906.942	40 - 32	17.30
906.944	32 - 24	17.30
906.945	24 - 18	17.30
906.946	18 - 14	17.30
906.947	14 - 10	17.30
906.948	10 - 7	17.30
906.949	7 - 4.5	17.30
906.950	4.5 - 3.5	17.30
906.951	Set 60 - 3.5	134.00

Item No.	Threads per inch	Price EUR
Inserts for UN, UNC and UNF threads, 60° flank angle, per pair:		
906.952	64 - 48	17.30
906.953	44 - 28	17.30
906.954	24 - 14	17.30
906.955	13 - 9	17.30
906.956	8 - 5	17.30
906.957	4.5 - 3.5	17.30
906.958	Set 64 - 3.5	68.00

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 case.

Analog

- No-glare chrome finished design.

Digital

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



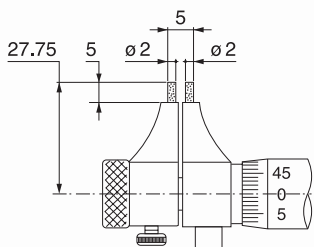
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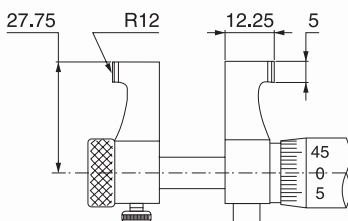
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NEW



906.509 / 909.974



906.510-533 / 909.975-981



906.510-533 / 909.975-981



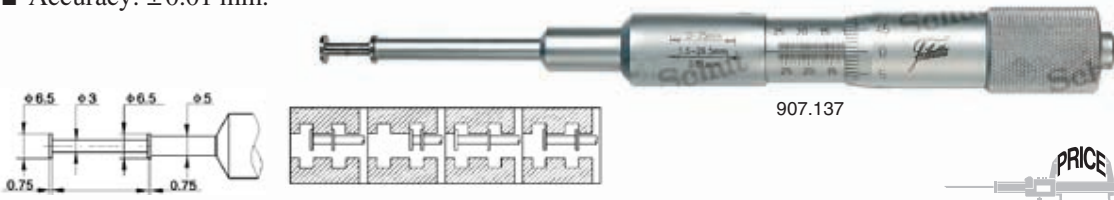
Item No.	Measuring range/mm	Accuracy mm	Price EUR
Analog:			
906.509	5 - 30	±0.005	45.00
906.510	25 - 50	±0.006	49.00
906.511	50 - 75	±0.007	57.00
906.512	75 - 100	±0.008	65.00
906.530	100 - 125	±0.009	73.00
906.531	125 - 150	±0.009	80.00
906.532	150 - 175	±0.010	88.00
906.533	175 - 200	±0.010	89.00
Digital:			
909.974	5 - 30	±0.005	144.00
909.975	25 - 50	±0.006	150.00
909.976	50 - 75	±0.007	157.00
909.977	75 - 100	±0.008	163.00
909.978	100 - 125	±0.009	170.00
909.979	125 - 150	±0.009	179.00
909.980	150 - 175	±0.010	189.00
909.981	175 - 200	±0.010	202.00
Option:			
836.535	Spare battery		1.60

Schut for Precision INT. & EXT. MICROMETERS / INTERNAL MEASURING INSTRUMENTS

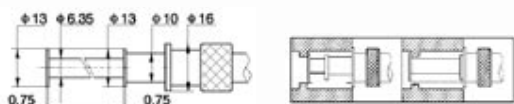
Groove micrometers

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



907.138-141

Item No.	Ext. measuring range/mm	Int. measuring range/mm	Price EUR
907.137	0- 25	1.6- 26.5	210.00
907.138	0- 25	1.6- 26.5	210.00
907.139	25- 50	26.5- 51.5	243.00
907.140	50- 75	51.5- 76.5	281.00
907.141	75- 100	76.5- 101.5	323.00

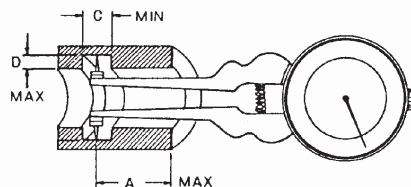
Two-point internal measuring instruments

- Measuring range: 20- 150 mm.
- Graduation: 0.01 mm.
- Interchangeable measuring inserts.
- Delivery in a case with an 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	275.00
855.502	30- 60	75	2.5	5	275.00
855.503	55- 150	90	4	9	309.00



Interapid internal measuring instrument

Bore measuring instrument with a large measuring range without having to change the measuring inserts. Specially suitable for measuring by comparison.

- Measuring range: 10 - 150 mm.
- Scale range: ± 0.20 mm.
- Measuring depth depends on the measured value.
- Graduation: 0.01 mm.
- Choice between 2- and 3-point measurements.
- Locking mechanism.
- Fine adjustment.
- Delivery with a declaration of conformity.



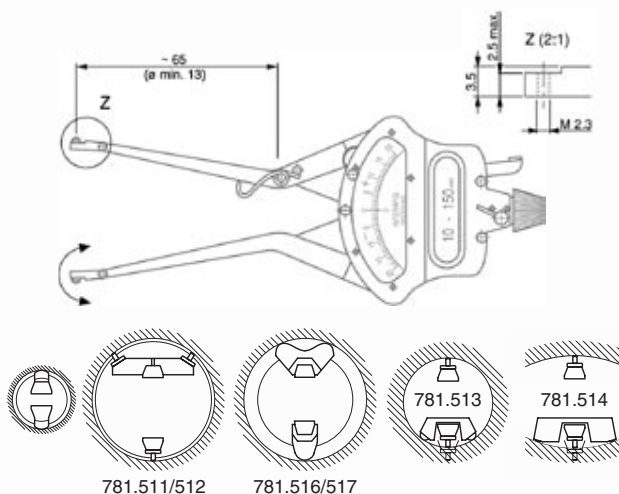
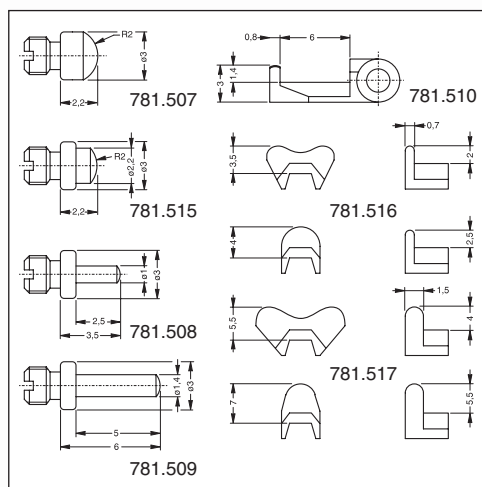
Item No.	Description	Price EUR
781.505	Set 1 with hardened steel inserts	2,171.00
781.506	Set 2 with tungsten carbide inserts	2,270.00
Options:		
781.507	1 hardened steel insert	10.00
781.508	1 hardened steel small needle insert	9.60
781.509	1 hardened steel long needle insert	9.60
781.515	1 tungsten carbide insert	60.00
781.516	Set of small winged inserts (2 single and 1 double)	137.00
781.517	Set of large winged inserts (2 single and 1 double)	144.00
781.518	Holder	180.00

Set 1:

- Interapid internal measuring instrument,
- 3 hardened steel inserts (A),
- 3 hardened steel small needle inserts,
- 3 hardened steel long needle inserts,
- 2 adjustable contact arms for measurements from $\phi 6$ mm (781.510),
- 1 small insert holder for 3-point measuring (781.511),
- 1 large insert holder for 3-point measuring (781.512),
- 1 centering device for measuring range $\phi 15 - 30$ mm (781.513),
- 1 centering device for measuring range $\phi 30 - 150$ mm (781.514).

Set 2:

Similar to set 1, the hardened steel inserts (A) are replaced with tungsten carbide ones.



Diatest crankshaft meters

- Measuring range: 45 - 500 mm.
- Graduation: 0.01 mm.
- Rotatable dial.
- Delivery with dial indicator, counter-weight and extensions in a case.

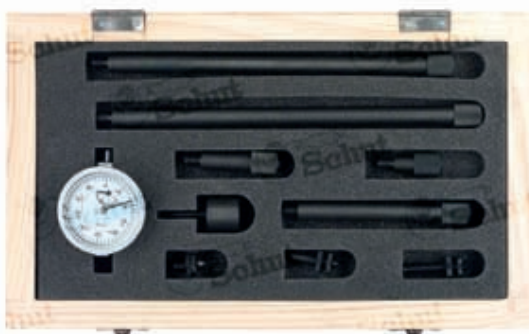
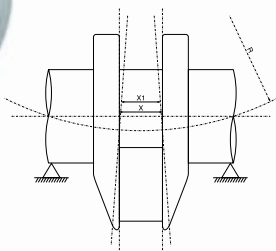


Item No.	Measuring range/mm	Price EUR
831.469	45 - 150	332.00
831.470	60 - 300	300.00
831.471	60 - 500	337.00
Options:		
831.472	Separate dial indicator for 831.469	204.00
831.473	Counterweight for 831.469	9.50
831.474	Separate dial indicator for 831.470 and 831.471	175.00
831.475	Counterweight for 831.470 and 831.471	9.50



Crankshaft meters

- Measuring range: 60 - 500 mm.
- Graduation: 0.01 mm.
- Rotatable dial.
- Delivery with dial indicator, counter-weight and extensions in a case.



907.919

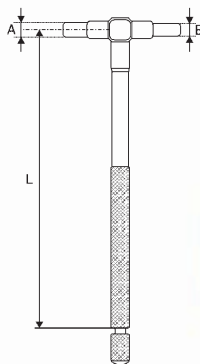


Item No.	Measuring range/mm	Price EUR
907.918	60 - 300	123.00
907.919	60 - 500	130.00
Option:		
907.917	Separate dial indicator	80.00

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, 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			Price EUR
		L	A	B	
906.604	8 - 12.7	102	4	3	3.30
906.605	12.7 - 19	102	5	4	3.10
906.606	19 - 32	102	5	4	3.10
906.607	32 - 54	127	7.5	6	3.10
906.608	54 - 90	127	7.5	6	3.10
906.609	90 - 150	127	7.5	6	3.40

Set of gauges

Item No.	Measuring range/mm	Price EUR
906.610	8 - 150	16.30



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, 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. Separate 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

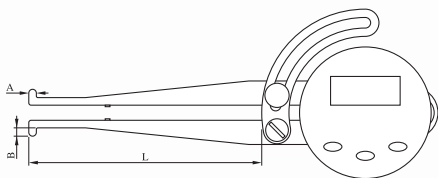
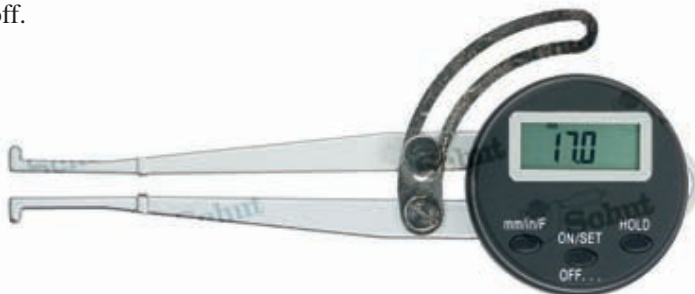
Set of gauges

Item No.	Description	Price EUR
907.747	For blind bores	17.20
907.748	For through bores	17.20



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.



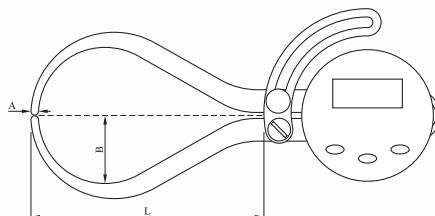
Item No.	Measuring range/mm	Length/mm			Price EUR
		L	A	B	
909.409	12.7 - 170	85	3	3	46.00
Option:					
495.157	Spare battery				0.50

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			Price EUR
		L	A	B	
909.408	0 - 160	85	3	25	46.00
Option:					
495.157	Spare battery				0.50



Digital internal measuring instruments

Digital internal measuring instruments for measurements of bores, internal grooves and other hard-to-reach places.

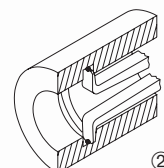
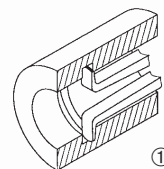
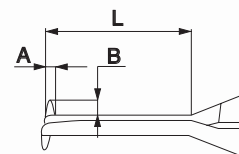
- Measuring range: 5 - 60 mm.
- Resolution: 0.005 mm. Digital-analog display changes automatically between 0.01, 0.02 and 0.05 mm (± 20 scale divisions).
- mm/inch conversion.
- ABS/INC switchable.
- Large LCD display, 340° rotatable.
- On/off switch.
- Automatic switch-off.
- Reset/preset.
- Hold and min/max functions.
- Adjustable tolerance limits.
- Measuring faces with different contact forms.
- Power supply: 1 battery type CR2032.



908.810



Item No.	Measuring range/mm	Accuracy mm	Length/mm			Contact form/mm	Price EUR
			L	A	B		
Travel 10 mm:							
908.810	5-15	± 0.02	20	1	1.5	① R 0.3	110.00
908.811	10-20	± 0.02	25	1.5	3.0	① R 0.3	119.00
908.812	20-30	± 0.02	30	2	6.5	① R 0.5	119.00
908.813	30-40	± 0.02	30	2.5	9.0	① R 0.5	119.00
908.814	40-50	± 0.02	30	2.5	9.0	① R 0.5	119.00
908.816	10-20	± 0.02	25	1.5	3.0	② $\varnothing 1.5$	127.00
908.817	20-30	± 0.02	30	2	6.5	② $\varnothing 1.5$	127.00
908.818	30-40	± 0.02	30	2.5	9.0	② $\varnothing 1.5$	127.00
908.819	40-50	± 0.02	30	2.5	9.0	② $\varnothing 1.5$	127.00
Travel 20 mm:							
908.820	5-25	± 0.03	35	1	1.5	① R 0.3	119.00
908.821	10-30	± 0.03	55	2	3.5	① R 0.5	131.00
908.822	20-40	± 0.03	80	3	6.5	① R 0.5	131.00
908.823	30-50	± 0.03	80	3	8.5	① R 0.5	131.00
908.824	40-60	± 0.03	80	3	8.5	① R 0.5	136.00
908.826	10-30	± 0.03	55	2	3.5	② $\varnothing 1.5$	151.00
908.827	20-40	± 0.03	80	3	6.5	② $\varnothing 1.5$	151.00
908.828	30-50	± 0.03	80	3	8.5	② $\varnothing 1.5$	151.00
908.829	40-60	± 0.03	80	3	8.5	② $\varnothing 1.5$	157.00
Option: 495.157 Spare battery							0.50



Internal measuring instruments

Internal measuring instruments for measurements of bores, internal grooves and other hard-to-reach places.

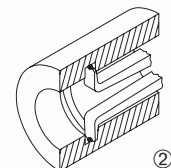
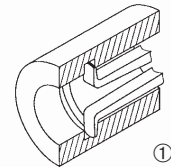
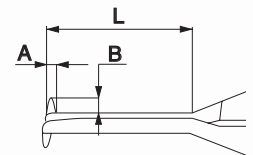
- Measuring range: 5 - 60 mm.
- Graduation: 0.01 mm.
- Rotatable dial.
- Adjustable tolerance markers.
- Measuring faces with different contact forms.



908.830



Item No.	Measuring range/mm	Accuracy mm	Length/mm			Contact form/mm	Price EUR
			L	A	B		
Travel 10 mm:							
908.830	5 - 15	±0.02	20	1	1.5	① R 0.3	99.00
908.831	10 - 20	±0.02	25	1.5	3.0	① R 0.3	107.00
908.832	20 - 30	±0.02	30	2	6.5	① R 0.5	107.00
908.833	30 - 40	±0.02	30	2.5	9.0	① R 0.5	107.00
908.834	40 - 50	±0.02	30	2.5	9.0	① R 0.5	107.00
908.836	10 - 20	±0.02	25	1.5	3.0	② ø1.5	114.00
908.837	20 - 30	±0.02	30	2	6.5	② ø1.5	114.00
908.838	30 - 40	±0.02	30	2.5	9.0	② ø1.5	123.00
908.839	40 - 50	±0.02	30	2.5	9.0	② ø1.5	123.00
Travel 20 mm:							
908.840	5 - 25	±0.03	35	1	1.5	① R 0.3	107.00
908.841	10 - 30	±0.03	55	2	3.5	① R 0.5	118.00
908.842	20 - 40	±0.03	80	3	6.5	① R 0.5	118.00
908.843	30 - 50	±0.03	80	3	8.5	① R 0.5	118.00
908.844	40 - 60	±0.03	80	3	8.5	① R 0.5	123.00
908.846	10 - 30	±0.03	55	2	3.5	② ø1.5	136.00
908.847	20 - 40	±0.03	80	3	6.5	② ø1.5	136.00
908.848	30 - 50	±0.03	80	3	8.5	② ø1.5	136.00
908.849	40 - 60	±0.03	80	3	8.5	② ø1.5	141.00



Krœplin digital internal measuring instruments

Krœplin's new generation of quickest measuring instruments has a compact, ergonomical design. The digital-analog display makes read-out easier.

- Measuring range: 2.5 - 120 mm.
- Resolution: 0.005, 0.01, 0.02 or 0.025 mm.
- mm/inch conversion.
- ABS/INC switchable.
- Mitutoyo Digimatic, Mitutoyo U-WAVE and USB data outputs optionally available.
- With tolerance display.
- Purpose-built measuring program and measuring inserts.
- Protection: IP67.
- Delivery in a case with an inspection report.
- Power supply: 2 batteries type AAA.



854.915

Item No.	Measuring range/mm	Resolution mm	Accuracy mm	Repeatability mm	Price EUR
854.913	2.5 - 12.5	0.005	±0.015	0.005	353.50
854.914	5 - 15	0.005	±0.015	0.005	353.50
854.915	10 - 30	0.01	±0.03	0.01	353.50
854.916	20 - 40	0.01	±0.03	0.01	353.50
854.917	30 - 50	0.01	±0.03	0.01	353.50
854.918	40 - 60	0.01	±0.03	0.01	353.50
854.919	50 - 70	0.01	±0.03	0.01	353.50
854.920	60 - 80	0.01	±0.03	0.01	353.50
854.921	70 - 90	0.01	±0.03	0.01	353.50
854.960	80 - 100	0.01	±0.03	0.01	353.50
854.012	13 - 43	0.02	±0.04	0.02	353.50
854.013	30 - 60	0.02	±0.04	0.02	353.50
854.014	50 - 80	0.02	±0.04	0.02	353.50
854.015	70 - 100	0.02	±0.04	0.02	353.50
854.016	90 - 120	0.02	±0.04	0.02	353.50
854.017	15 - 65	0.025	±0.06	0.04	488.90
854.018	40 - 90	0.025	±0.06	0.04	488.90
Options:					
497.914	Spare battery type AAA				0.40
854.952*	Interface				37.90
965.013*	Digimatic cable				59.00
206.380*	USB cable				102.00
102.790*	U-WAVE cable				87.00



For specifications refer to the Krœplin internal measuring instruments overview.

*For data output an interface and cable are needed. Only for new instruments with serial number ≥ I.

Krœplin internal measuring instruments Intertest

Measuring instruments for accurate and reliable measurements of internal dimensions.

- Measuring range: 10-430 mm.
- Graduation: 0.01, 0.05, 0.2 or 0.1 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 in a case with an inspection report.



854.924

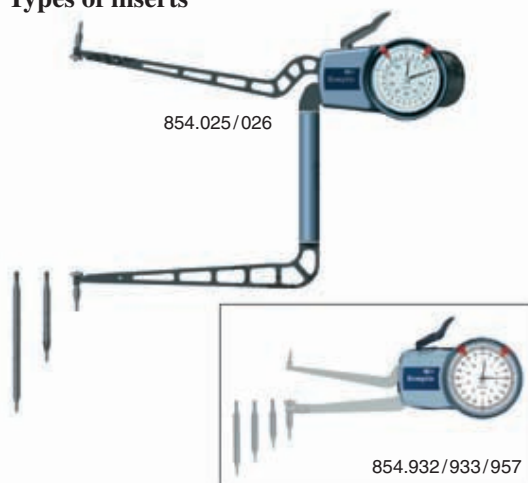
NEW



Item No.	Meas. range mm	Graduation mm	Accuracy mm	Repeat-ability mm	Price EUR
854.924	10- 30	0.01	±0.03	0.01	343.60
854.925	20- 40	0.01	±0.03	0.01	343.60
854.926	30- 50	0.01	±0.03	0.01	343.60
854.927	40- 60	0.01	±0.03	0.01	343.60
854.928	50- 70	0.01	±0.03	0.01	343.60
854.929	60- 80	0.01	±0.03	0.01	343.60
854.930	70- 90	0.01	±0.03	0.01	343.60
854.931	80-100	0.01	±0.03	0.01	343.60
854.019	15- 65	0.05	±0.05	0.025	395.60
854.020	40- 90	0.05	±0.05	0.025	395.60
854.021	70-120	0.05	±0.05	0.025	455.70
854.022	100-150	0.05	±0.05	0.025	455.70
854.023	130-180	0.05	±0.05	0.025	455.70
854.024	150-200	0.05	±0.05	0.025	488.90
854.227	50-150	0.1	±0.15	0.1	746.40
854.228	70-170	0.1	±0.15	0.1	746.40
854.011	80-180	0.1	±0.25	0.1	921.80
854.903	150-250	0.1	±0.3	0.1	989.30
854.359	220-320	0.1	±0.3	0.1	989.30
854.417	200-400	0.2	±0.4	0.2	1,061.30

Item No.	Meas. range mm	Graduation mm	Accuracy mm	Repeat-ability mm	Price EUR
854.932	50-100	0.01	±0.03	0.015	524.70
854.933	90-140	0.01	±0.03	0.015	524.70
854.957	130-180	0.01	±0.03	0.015	563.00
854.025	180-310	0.05	±0.075	0.05	604.00
854.026	300-430	0.05	±0.15	0.075	648.30

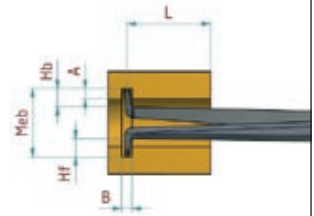
Types of inserts



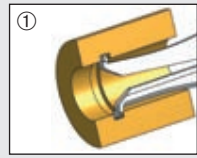
For specifications refer to the Krœplin internal measuring instruments overview.

Overview Kröplin internal measuring instruments

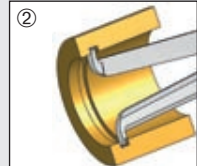
Item No.	Measuring range mm	Meas. depth L/mm	Groove depth A/mm	Groove width B/mm	Type of insert	Insert length/mm Hb Hf
Digital internal measuring instruments:						
854.913	2.5- 12.5	12	0.7	0.5	① R0.1	0.9 0.9
854.914	5 - 15	35	2.3	0.8	② ø0.6	2.5 2.5
854.915	10 - 30	85	5.2	1.2	② ø1	5.3 5.3
854.916	20 - 40	85	7	1.2	② ø1	7.3 7.3
854.917	30 - 50	85	7	1.2	② ø1	7.3 7.3
854.918	40 - 60	85	8.3	1.2	③ ø1	8.5 8.5
854.919	50 - 70	85	8.3	1.2	③ ø1	8.5 8.5
854.920	60 - 80	85	8.3	1.2	③ ø1	8.5 8.5
854.921	70 - 90	85	8.3	1.2	③ ø1	8.5 8.5
854.960	80 -100	85	8.3	1.2	③ ø1	8.5 8.5
854.012	13 - 43	127	5.5	1.8	② ø1.3	5.9 5.9
854.013	30 - 60	127	6.5	2	③ ø1.5	6.5 6.5
854.014	50 - 80	127	8.3	2.3	③ ø2	8.5 8.5
854.015	70 -100	127	8.3	2.3	③ ø2	8.5 8.5
854.016	90 -120	127	8.3	2.3	③ ø2	8.5 8.5
854.017	15 - 65	188	6	2	② ø1.5	6 6
854.018	40 - 90	192	8.3	2.3	③ ø2	8.5 8.5
Internal measuring instruments Interest:						
854.922	2.5- 12.5	12	0.7	0.5	① R0.1	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	1.2	② ø1	5.3 5.3
854.925	20 - 40	85	7	1.2	② ø1	7.3 7.3
854.926	30 - 50	85	7	1.2	② ø1	7.3 7.3
854.927	40 - 60	85	8.3	1.2	③ ø1	8.5 8.5
854.928	50 - 70	85	8.3	1.2	③ ø1	8.5 8.5
854.929	60 - 80	85	8.3	1.2	③ ø1	8.5 8.5
854.930	70 - 90	85	8.3	1.2	③ ø1	8.5 8.5
854.931	80 -100	85	8.3	1.2	③ ø1	8.5 8.5
854.019	15 - 65	188	5	2	② ø1.5	6.3 6.3
854.020	40 - 90	192	8.3	2.3	③ ø2	8.5 8.5
854.021	70 -120	192	8.3	2.3	③ ø2	8.5 8.5
854.022	100 -150	192	8.3	2.3	③ ø2	8.5 8.5
854.023	130 -180	192	8.3	2.3	③ ø2	8.5 8.5
854.024	150 -200	192	8.3	2.3	③ ø2	8.5 8.5
854.227	50 -150	395	2.5	5.5	④ ø5	3 3
854.228	70 -170	395	12.5	5.5	④ ø5	13 13
854.011	80 -180	535	11	5.5	④ ø5	12 12
854.903	150 -250	535	31	5.5	④ ø5	32 32
854.359	220 -320	535	31	5.5	④ ø5	32 32
854.417	200 -400	735	28	21	⑤ SR20	29 29



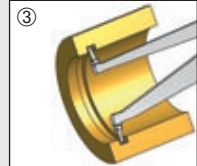
Types of inserts



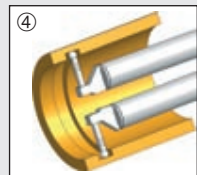
R=0.1 mm



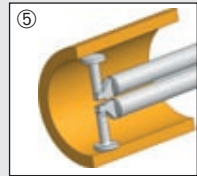
TC-ball ø0.6, 1, 1.3 or 1.5 mm



TC-ball ø1 or 2 mm



ø5 mm



SR 20 mm

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 Interest:						
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	192	③ ø2	20 20/60/100
854.026	300-430	3	50	192	③ ø2	21 20/60/100

Krœplin internal measuring instruments Intertest

- Measuring range: 2.5 - 15 mm.
- Graduation: 0.005 mm.
- Adjustable tolerance limits.
- Protection: IP65.
- Delivery in a case with an inspection report.



854.922

Item No.	Measuring range/mm	Graduation mm	Accuracy mm	Repeatability mm	Price EUR
854.922	2.5 - 12.5	0.005	±0.015	0.005	343.60
854.923	5 - 15	0.005	±0.015	0.005	343.60

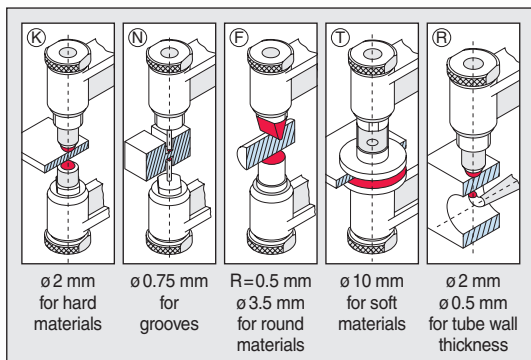
For specifications refer to the Krœplin internal measuring instruments overview.

Krœplin external measuring instruments Pocotest

A handy universally usable thickness gauge from the Poco line.

- Measuring range: 0 - 10 mm.
- Graduation: 0.1 mm.
- Accuracy: ±0.1 mm.
- Repeatability: 0.05 mm.
- Delivery in a case.

Types of inserts



854.001

Item No.	Measuring range/mm	Meas. depth L/mm	Type of insert	Insert length Hb	Hf	Price EUR
854.001	0 - 10	36	K	5	5	96.80
854.002	0 - 10	36	N	3.5	3.5	96.80
854.003	0 - 10	36	F	4.5	4.5	96.80
854.004	0 - 10	36	T	5	5	96.80
854.010	0 - 10	25	R	5	0.5	111.20

Digital external measuring instruments

Digital external measuring instruments for measurements of external grooves, axis diameters, wall thicknesses and other hard-to-reach places.

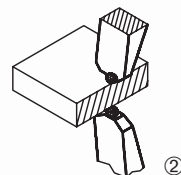
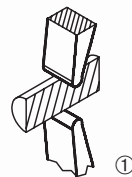
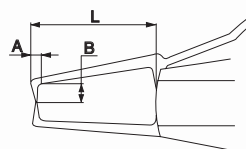
- Measuring range: 0- 60 mm.
- Resolution: 0.005 mm. Digital-analog display changes automatically between 0.01, 0.02 and 0.05 mm (± 20 scale divisions).
- mm/inch conversion.
- ABS/INC switchable.
- Large LCD display, 340° rotatable.
- On/off switch.
- Automatic switch-off.
- Reset/preset.
- Hold and min/max functions.
- Adjustable tolerance limits.
- Measuring faces with different contact forms.
- Power supply: 1 battery type CR2032.



908.850



Item No.	Measuring range/mm	Accuracy mm	Length/mm			Contact form/mm	Price EUR
			L	A	B		
Travel 10 mm:							
908.850	0- 10	± 0.02	40	3	8	① R 0.5	110.00
908.851	10- 20	± 0.02	40	3	8	① R 0.5	110.00
908.852	20- 30	± 0.02	40	3	8	① R 0.5	119.00
908.853	30- 40	± 0.02	40	3	8	① R 0.5	110.00
908.854	40- 50	± 0.02	40	3	8	① R 0.5	110.00
908.855	0- 10	± 0.02	40	3	8	② $\phi 1.5$	126.00
908.856	10- 20	± 0.02	40	3	8	② $\phi 1.5$	137.00
908.857	20- 30	± 0.02	40	3	8	② $\phi 1.5$	127.00
908.858	30- 40	± 0.02	40	3	8	② $\phi 1.5$	127.00
908.859	40- 50	± 0.02	40	3	8	② $\phi 1.5$	127.00
Travel 20 mm:							
908.860	0- 20	± 0.03	80	6.5	25	① R 0.75	119.00
908.861	10- 30	± 0.03	80	6.5	25	① R 0.75	119.00
908.862	20- 40	± 0.03	80	6.5	25	① R 0.75	122.00
908.863	30- 50	± 0.03	80	6.5	25	① R 0.75	122.00
908.864	40- 60	± 0.03	80	6.5	25	① R 0.75	127.00
908.865	0- 20	± 0.03	80	6.5	25	② $\phi 1.5$	137.00
908.866	10- 30	± 0.03	80	6.5	25	② $\phi 1.5$	140.00
908.867	20- 40	± 0.03	80	6.5	25	② $\phi 1.5$	140.00
908.868	30- 50	± 0.03	80	6.5	25	② $\phi 1.5$	140.00
908.869	40- 60	± 0.03	80	6.5	25	② $\phi 1.5$	157.00
Option: 495.157 Spare battery							0.50



External measuring instruments

External measuring instruments for measurements of external grooves, axis diameters, wall thicknesses and other hard-to-reach places.

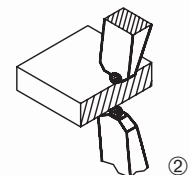
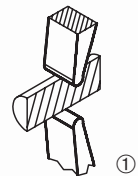
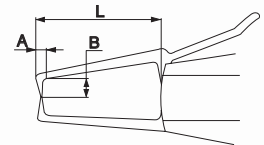
- Measuring range: 0-60 mm.
- Graduation: 0.01 mm.
- Rotatable dial.
- Adjustable tolerance markers.
- Measuring faces with different contact forms.



908.870



Item No.	Measuring range/mm	Accuracy mm	Length/mm			Contact form/mm	Price EUR
			L	A	B		
Travel 10 mm:							
908.870	0-10	±0.02	40	3	8	① R 0.5	99.00
908.871	10-20	±0.02	40	3	8	① R 0.5	107.00
908.872	20-30	±0.02	40	3	8	① R 0.5	99.00
908.873	30-40	±0.02	40	3	8	① R 0.5	99.00
908.874	40-50	±0.02	40	3	8	① R 0.5	99.00
908.875	0-10	±0.02	40	3	8	② ϕ 1.5	114.00
908.876	10-20	±0.02	40	3	8	② ϕ 1.5	114.00
908.877	20-30	±0.02	40	3	8	② ϕ 1.5	114.00
908.878	30-40	±0.02	40	3	8	② ϕ 1.5	114.00
908.879	40-50	±0.02	40	3	8	② ϕ 1.5	114.00
Travel 20 mm:							
908.880	0-20	±0.03	80	6.5	25	① R 0.75	107.00
908.881	10-30	±0.03	80	6.5	25	① R 0.75	118.00
908.882	20-40	±0.03	80	6.5	25	① R 0.75	118.00
908.883	30-50	±0.03	80	6.5	25	① R 0.75	118.00
908.884	40-60	±0.03	80	6.5	25	① R 0.75	114.00
908.885	0-20	±0.03	80	6.5	25	② ϕ 1.5	123.00
908.886	10-30	±0.03	80	6.5	25	② ϕ 1.5	126.00
908.887	20-40	±0.03	80	6.5	25	② ϕ 1.5	136.00
908.888	30-50	±0.03	80	6.5	25	② ϕ 1.5	126.00
908.889	40-60	±0.03	80	6.5	25	② ϕ 1.5	141.00



Krœplin digital external measuring instruments

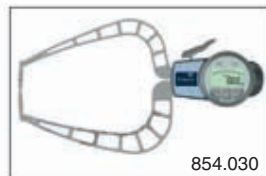
Krœplin's new generation of quickest measuring instruments has a compact, ergonomical design. The digital-analog display makes read-out easier.

- Measuring range: 0- 50 mm.
- Resolution: 0.005, 0.01 or 0.02 mm.
- mm/inch conversion.
- ABS/INC switchable.
- Mitutoyo Digimatic, Mitutoyo U-WAVE and USB data outputs optionally available.
- With tolerance display.
- Purpose-built measuring program and measuring inserts.
- Protection: IP67.
- Delivery in a case with an inspection report.
- Power supply: 2 batteries type AAA.



854.908

Item No.	Measuring range/mm	Resolution mm	Accuracy mm	Repeatability mm	Price EUR
854.905	0- 10	0.005	±0.015	0.005	353.50
854.961	0- 10	0.005	±0.015	0.005	353.50
854.906	0- 10	0.005	±0.02	0.005	353.50
854.907	0- 10	0.005	±0.015	0.005	353.50
854.962	0- 10	0.005	±0.015	0.005	353.50
854.908	0- 20	0.01	±0.03	0.01	353.50
854.963	0- 20	0.01	±0.03	0.01	353.50
854.955	0- 20	0.01	±0.03	0.01	353.50
854.950	0- 20	0.01	±0.03	0.01	353.50
854.956	0- 20	0.01	±0.03	0.01	353.50
854.027	0- 30	0.02	±0.04	0.02	353.50
854.036	0- 30	0.02	±0.04	0.02	353.50
854.029	0- 30	0.02	±0.06	0.04	353.50
854.028	0- 30	0.02	±0.04	0.02	353.50
854.037	0- 30	0.02	±0.04	0.02	353.50
854.030	0- 50	0.02	±0.06	0.04	488.90
854.032	0- 50	0.02	±0.08	0.06	488.90
854.031	0- 50	0.02	±0.06	0.04	488.90
Options:					
497.914	Spare battery type AAA				0.40
854.952*	Interface				37.90
965.013*	Digimatic cable				59.00
206.380*	USB cable				102.00
102.790*	U-WAVE cable				87.00



854.030



For specifications refer to the Krœplin external measuring instruments overview.

*For data output an interface and cable are needed. Only for new instruments with serial number ≥ I.

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 in a case with an inspection report.



854.934

NEW

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	343.60
854.910	0 - 10	0.005	±0.02	0.005	343.60
854.911	0 - 10	0.005	±0.015	0.005	343.60
854.912	0 - 10	0.005	±0.015	0.005	343.60
854.934	0 - 20	0.01	±0.03	0.01	343.60
854.935	0 - 20	0.01	±0.03	0.01	343.60
854.936	0 - 20	0.01	±0.04	0.01	343.60
854.937	0 - 20	0.01	±0.03	0.01	343.60
854.938	0 - 20	0.01	±0.03	0.01	343.60
854.033	0 - 50	0.05	±0.05	0.025	395.60
854.034	0 - 50	0.05	±0.05	0.025	395.60
854.035	0 - 50	0.05	±0.1	0.025	424.80
854.038	0 - 50	0.05	±0.05	0.025	395.60
854.039	0 - 50	0.05	±0.05	0.025	395.60

Item No.	Meas. range mm	Graduation mm	Accuracy mm	Repeatability mm	Price EUR
854.225	0 - 100	0.1	±0.15	0.1	746.40
854.109	0 - 100	0.1	±0.15	0.1	746.40
854.226	0 - 100	0.1	±0.15	0.1	746.40
854.094	0 - 100	0.1	±0.3	0.15	921.80
854.095	0 - 100	0.1	±0.3	0.15	989.30
854.841	0 - 100	0.1	±0.4	0.15	989.30
854.966	0 - 200	0.2	±0.4	0.2	1,061.30



Overview Krøplin external measuring instruments

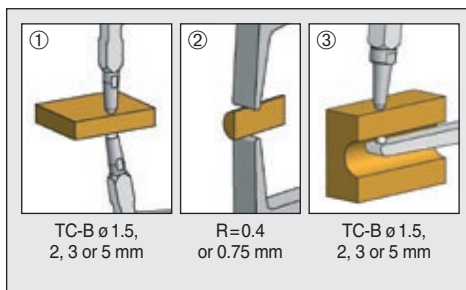
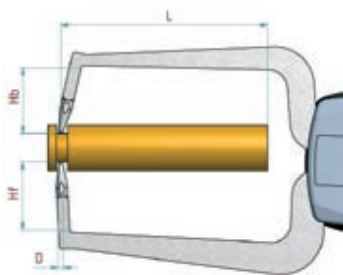
External measuring instruments Oditest

Item No.	Measuring range/mm	Meas. depth L/mm	Type of insert	Insert length Hb	Hf
854.909	0- 10	35	① ϕ 1.5	19.1	18.6
854.910	0- 10	35	⑦ ϕ 6	21.7	14.8
854.911	0- 10	35	③ ϕ 1.5	19.1	0.9
854.912	0- 10	35	④ R0.4	18.8	0.9
854.934	0- 20	85	① ϕ 1.5	24.7	24.6
854.935	0- 20	85	② R0.4	24.7	24.6
854.936	0- 20	85	⑦ ϕ 10	28.2	20.7
854.937	0- 20	80	⑤ ϕ 1.5	24.7	2.5
854.938	0- 20	80	⑥ R0.4	24.7	2.5
854.033	0- 50	167	① ϕ 3	30	30
854.034	0- 50	167	② R0.75	30	30
854.035	0- 50	167	⑦ ϕ 50	36	24
854.038	0- 50	167	③ ϕ 3	30	4.6
854.039	0- 50	167	④ R0.75	30	4.6
854.225	0-100	383	⑧ ϕ 5	35	35
854.109	0-100	382	⑨ ϕ 5	35	15
854.226	0-100	382	⑦ ϕ 50	41	9
854.094	0-100	530	⑧ ϕ 5	32	32
854.095	0-100	530	⑧ ϕ 5	32	132
854.841	0-100	555	⑦ ϕ 50	46	26
854.966	0-200	725	⑩ 20	100	100

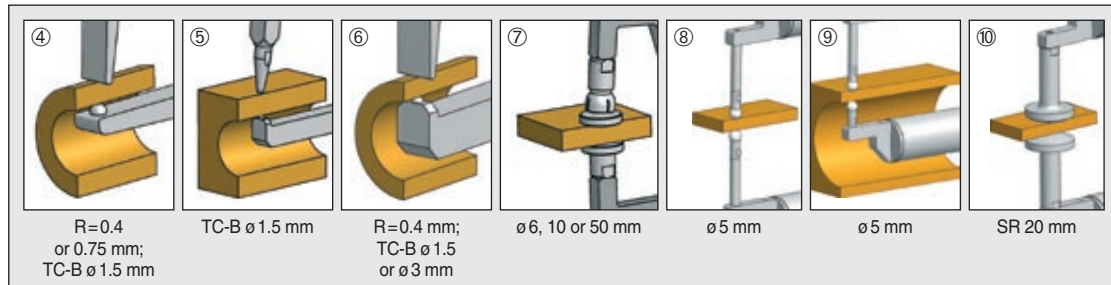
Digital external measuring instruments

Item No.	Measuring range/mm	Meas. depth L/mm	Type of insert	Insert length Hb	Hf
854.905	0- 10	35	① ϕ 1.5	19.1	18.6
854.961	0- 10	35	② R0.4	18.8	18.5
854.906	0- 10	35	⑦ ϕ 6	21.7	14.8
854.907	0- 10	35	③ ϕ 1.5	19.1	0.9
854.962	0- 10	35	④ ϕ 1.5	18.8	0.9
854.908	0- 20	85	① ϕ 1.5	24.7	24.6
854.963	0- 20	81	② R0.4	24.7	24.6
854.955	0- 20	81	⑦ ϕ 10	28.2	20.7
854.950	0- 20	80	⑤ ϕ 1.5	24.7	2.5
854.956	0- 20	80	⑥ ϕ 1.5	24.7	2.5
854.027	0- 30	114	① ϕ 3	30	30
854.036	0- 30	116	② R0.75	30	30
854.029	0- 30	114	⑦ ϕ 50	36	24
854.028	0- 30	116	⑤ ϕ 3	30	4.6
854.037	0- 30	116	⑥ ϕ 3	30	4.6
854.030	0- 50	167	① ϕ 3	30	30
854.032	0- 50	167	⑦ ϕ 50	36	24
854.031	0- 50	167	⑤ ϕ 3	30	4.6

NEW



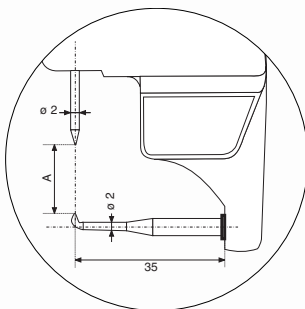
Types of inserts



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.



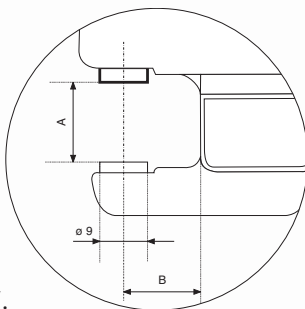
Item No.	Measuring face	Throat depth/mm	Price EUR
906.450	Pointed	35	78.00
Option:			
836.535	Spare battery		1.60



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.



906.451



Item No.	Measuring range/mm	Measuring face ϕ /mm	Throat depth/mm	Price EUR
906.451	0- 15	9	15.0	75.00
906.452	0- 25	9	14.5	101.00
Option:				
836.535	Spare battery			1.60

Digital external measuring instruments

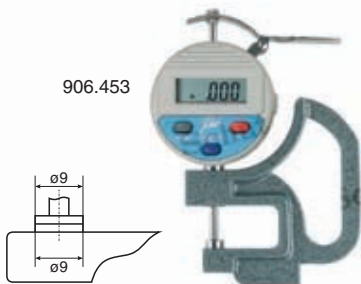
- Measuring range: 0- 10 mm.
- Resolution: 0.01 mm.
- Repeatability: 0.01 mm.
- mm/inch conversion.
- Automatic switch-off.
- Reset.
- Max. measuring speed: 1.5 m/s.
- Non-interchangeable inserts.
- Power supply: 1 battery type V357.



906.454



906.453



Item No.	Measuring range/mm	Measuring faces ϕ /mm	Throat depth/mm	Price EUR
906.453	0- 10	9	30	87.00
906.454	0- 10	9	120	109.00
Option: 836.535 Spare battery				1.60

Käfer digital external measuring instruments 0.01 and 0.001 mm

Fast thickness measurement of small parts and sheet and foil material.

- Measuring range: 0- 25 mm.
- Resolution: 0.01 mm or 0.001 mm.
- mm/inch conversion.
- USB/RS232C data output.
- On/off switch.
- Reset/preset.
- Hold function.
- Interchangeable measuring inserts.
- Measuring faces standard type of insert: ϕ 10 mm.
- Different types of inserts available.
- Power supply: 1 battery type CR2032.



852.741



852.715

Item No.	Measuring range/mm	Resolution mm	Accuracy mm	Throat depth/mm	Price EUR
852.768	0- 10	0.01	± 0.01	50	407.00
852.715	0- 25	0.01	± 0.01	50	471.00
852.754	0- 25	0.01	± 0.01	100	503.00
852.396	0- 10	0.001	± 0.005	50	453.00
852.741	0- 25	0.001	± 0.005	200	605.00
Options:					
495.157	Spare battery				0.50
852.117	RS232C cable 9p (2 m)				117.00
852.118	USB cable (2 m)				117.00

Thickness gauges

- Measuring range: 0 - 10 mm.
- Graduation: 0.01 mm.
- Rotatable dial.
- Non-interchangeable inserts.
- Locking screw (only 906.447).
- Measuring face: $\varnothing 6$ mm.



906.446



906.447

Item No.	Measuring range/mm	Throat depth/mm	Price EUR
906.446	0 - 10	10	35.40
906.447	0 - 10	30	51.00

Thickness gauge

- Measuring range: 0 - 20 mm.
- Graduation: 0.01 mm.
- Rotatable dial with locking screw.
- Non-interchangeable inserts.
- Measuring face: $\varnothing 6$ mm.



Item No.	Measuring range/mm	Throat depth/mm	Price EUR
906.448	0 - 20	100	77.00

Peacock external measuring instruments

- Measuring range: 0 - 10 mm.
- Graduation: 0.01 mm.
- Measuring force: approx. 1.8 N.
- Non-interchangeable measuring inserts.
- Ceramic measuring faces.



855.750



855.751

Item No.	Measuring range/mm	Measuring faces ϕ /mm	Throat depth/mm	Price EUR
855.750	0 - 10	10	20	43.00
855.751	0 - 10	10	120	50.00

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.

Item No.	Type of insert	Price EUR
853.002	B	133.00
853.003	C	133.00
853.004	D	133.00
853.005	E	133.00
853.007	G	133.00


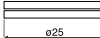





853.007



853.002

Types of inserts

-  **B** Wood, rubber, soft leather
-  **C** Soft rubber
-  **D** Rubber rings, round material
-  **E** Paper, cardboard, fibrous plates
-  **G** Metal

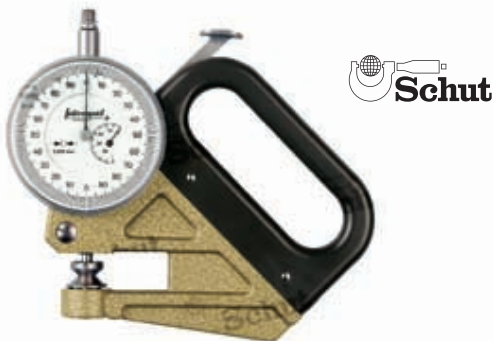
Thickness gauge for film measurement

- 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.

Item No.	Measuring range/mm	Meas. faces ϕ /mm	Price EUR
907.859	0 - 1	10	91.00



Interapid thickness gauge for film measurement



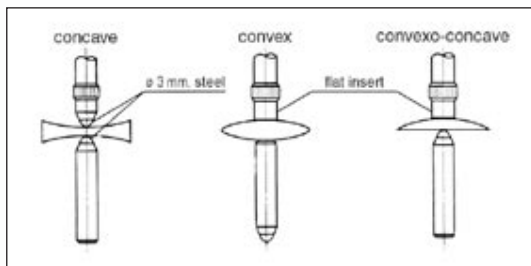
- Measuring range: 0 - 1 mm.
- Graduation: 0.001 mm.
- Measuring force: approx. 2 N.
- Non-interchangeable measuring inserts.
- Throat depth: 30 mm.
- Frame with insulating grip.
- Delivery with a declaration of conformity.

Item No.	Measuring range/mm	Meas. faces ϕ /mm	Price EUR
781.547	0 - 1	6.35	380.00

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.
- Throat depth: 25 mm.
- With additional flat insert.



Item No.	Measuring range dial indicator/mm	Price EUR
855.752	0 - 10	59.00

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	91.00

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



853.033



853.045

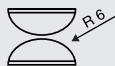


853.022



Types of inserts

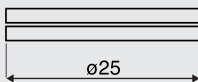
- ① General applications



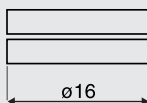
- ② Wood, rubber, soft leather



- ③ Soft rubber



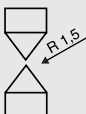
- ④ Paper, cardboard, fibrous plates



- ⑤ Rubber rings, round materials



- ⑥ Metal



Item No.	Measuring range/mm	Type of insert	Throat depth/mm	Price EUR
853.022	0 - 10	②	15	36.90
853.031	0 - 30	⑤	50	43.00
853.032	0 - 30	②	50	43.00
853.033	0 - 30	③	50	43.00
853.034	0 - 30	④	50	43.00
853.035	0 - 30	⑥	50	43.00
853.037	0 - 30	①	50	48.00
853.041	0 - 50	⑤	50	46.00
853.042	0 - 50	②	50	46.00
853.043	0 - 50	③	50	46.00
853.044	0 - 50	④	50	46.00
853.045	0 - 50	⑥	50	46.00
853.047	0 - 50	①	50	51.00
853.052	0 - 25	②	150	78.00
853.053	0 - 25	③	150	78.00
853.054	0 - 25	①	150	83.00
853.055	0 - 25	④	150	78.00
853.056	0 - 25	⑥	150	78.00
853.062	0 - 25	②	300	84.00
853.063	0 - 25	③	300	84.00
853.064	0 - 25	①	300	89.00
853.065	0 - 25	④	300	84.00
853.066	0 - 25	⑥	300	84.00
853.082	0 - 25	②	500	110.00
853.083	0 - 25	③	500	110.00
853.084	0 - 25	①	500	115.00
853.085	0 - 25	④	500	110.00
853.087	0 - 25	⑥	500	110.00

Digital external measuring instruments

- Measuring range: 0-25 mm.
- Resolution: 0.01 mm.
- mm/inch conversion.
- ABS/INC switchable.
- On/off switch.
- Reset/preset.
- Different types of inserts.
- Hardened steel measuring faces.
- Other models available on request.



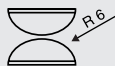
853.074



853.060

Types of inserts

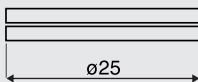
① General applications



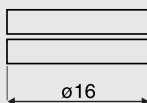
② Wood, rubber, soft leather



③ Soft rubber



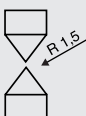
④ Paper, cardboard, fibrous plates



⑤ Rubber rings, round materials



⑥ Metal



NEW



Item No.	Measuring range/mm	Type of insert	Throat depth/mm	Price EUR
853.072	0-25	①	50	224.00
853.073	0-25	②	50	218.00
853.074	0-25	③	50	218.00
853.075	0-25	④	50	218.00
853.076	0-25	⑤	50	218.00
853.077	0-25	⑥	50	218.00
853.057	0-25	①	200	251.00
853.078	0-25	②	200	246.00
853.079	0-25	③	200	246.00
853.080	0-25	④	200	246.00
853.081	0-25	⑥	200	246.00
853.060	0-25	①	300	264.00
853.091	0-25	②	300	259.00
853.092	0-25	③	300	259.00
853.093	0-25	④	300	259.00
853.094	0-25	⑥	300	259.00

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 wooden case

Item No.	Type	Measuring range (internal/external) in mm, with:				Price EUR
		Spherical disc inserts	Spherical needle insert $\varnothing 2 \times 5$ mm	Ball insert $\varnothing 3$ mm	Measuring disc $\varnothing 15 \times 4$ mm	
856.340	2-MR	29-254/9-234	38-263/0-225	36-261/2-227	46-256/16-226	2,670.00
856.341	2L-MR	29-354/9-334	38-363/0-325	36-361/2-327	46-356/16-326	2,840.00
856.342	2EL-MR	29-454/9-434	38-463/0-425	36-461/2-427	46-456/16-426	3,100.00

Base instrument
type MR



Measuring arms

Item No.	Length mm	Price EUR per piece
Type MA, with $\varnothing 3.5$ mm bore for interchangeable inserts:		
856.343	25	169.00
856.344	50	169.00
856.345	75	213.00
856.346	100	213.00
Type MB, with internal thread M6 for interchangeable measuring disc:		
856.347	30	169.00
856.348	50	213.00
Type MC, with bore 4H7 for various interchangeable inserts:		
856.349	30	169.00
856.350	50	213.00

Measuring arms:

MA



MB



MC



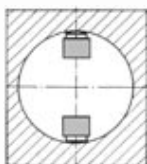
Internal measuring instruments (type I) and external measuring instruments (type O) with non-exchangeable measuring jaws are available on request. Excl. dial indicator or measuring probe.



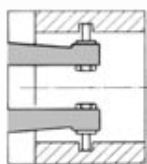
Universal measuring instruments (continued)

Interchangeable inserts for type MA

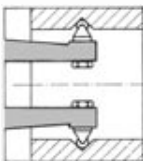
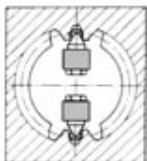
Item No.	Description	Price EUR per piece
856.351	Spherical disc insert	113.00
856.372	Flat disc insert	168.00
856.352	Spherical needle ø2 x 5 mm	143.00
856.376	Ditto, ø2 x 25 mm	196.00
856.353	Ball insert ø3 mm	177.00



856.351: measuring of bores



856.352: measuring of narrow grooves



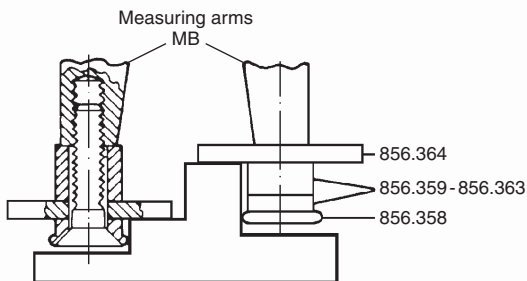
856.353: measuring of internal gear teeth, V-grooves, etc.



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.

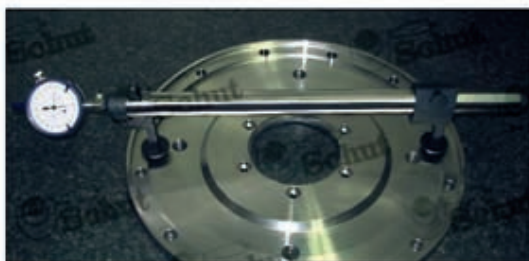
Interchangeable measuring disc for type MB

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 ø15 x 4 mm	107.00
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 ø30 x 3 mm	48.00

Example of a complete instrument with measuring arms type MB, measuring discs and a dial indicator.



Extensions and connecting elements

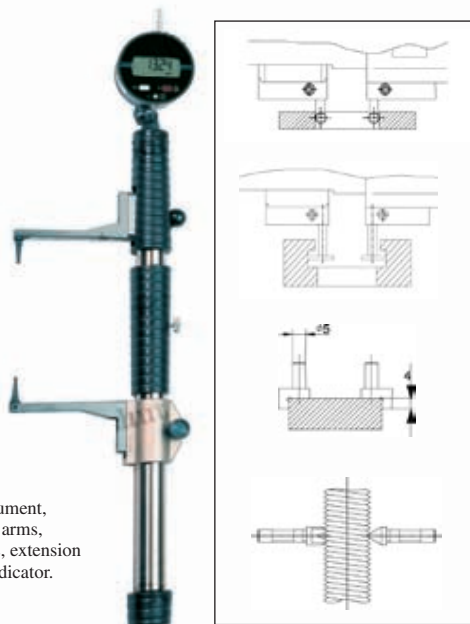
Item No.	Description	Price EUR
856.354	Extension 300 mm	342.00
856.355	Extension 500 mm	559.00
856.356	Connecting element for measuring element and extension	317.00
856.357	End cover for extension	48.00

Before placing the extension the measuring direction has to be determined with the adjusting screw.

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 - 250 mm.
- Measuring range with optional extensions: up to 2000 mm.
- Clamping shaft: $\varnothing 8$ mm.
- Reversible measuring direction.
- Large choice of measuring probes and inserts.
- Inserts also for internal and external screw thread measurements available.
- Basic instrument: excl. dial indicator, measuring probes and inserts.
- Delivery in a case.



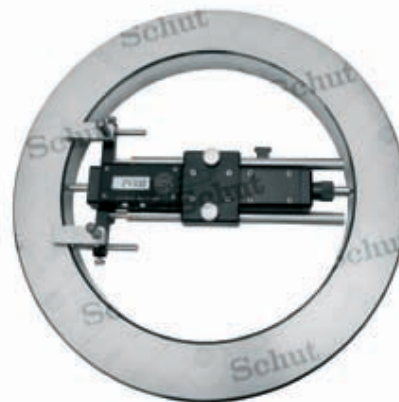
Illustrated:
basic instrument,
measuring arms,
ball inserts, extension
and dial indicator.

Item No.	Description	Price EUR
856.380	Basic instrument	1,720.00
856.319	Ball inserts (pair) $l = 23$ mm	106.00
856.339	Measuring arms (pair) $l = 80$ mm	299.00

Internal micrometer

Universal internal micrometer of stainless steel and aluminum with a measuring range up to 2000 mm using optional extensions.

- Measuring range: 250 - 350 mm
(2000 mm with extensions).
- Measuring range digital measuring unit:
100 mm.
- Resolution: 0.01 mm.
- Accuracy: ± 0.01 mm.
- mm/inch conversion.
- RS232C data output.
- On/off switch.
- Measuring base delivered with 2 spring accessories.
- Delivery in a case with an inspection report.
- Power supply: 1 battery type CR2032.



Extensions

Item No.	Description	Price EUR
838.721	Internal micrometer 250 - 350 mm	1,667.00
Option:		
495.157	Spare battery	0.50

Item No.	Extension mm	Price EUR
838.722	50	96.00
838.723	100	141.00
838.724	200	212.00
838.725	300	323.00
838.726	400	485.00

TESA Unimaster

By reversal of the measuring direction, this universal measuring instrument can be used for both internal and external measurements. Specially for large dimensions.

- Measuring range: internal: 250 - 1475 mm,
external: 225 - 1450 mm,
larger ranges are possible (see options).
- Graduation micrometer: 0.01 mm.
- Measuring range dial indicator: ± 0.4 mm.
- Graduation dial indicator: 0.01 mm.
- Accuracy: ± 0.005 mm.
- Interchangeable measuring inserts.
- Tungsten carbide measuring faces.
- Extensions with gauge block accuracy
DIN 861/2.
- External diameter of extensions: 38 mm.
- Connection of extensions through quick
coupling system.
- DIN 863 T4.
- Delivery in a case with a declaration of
conformity.

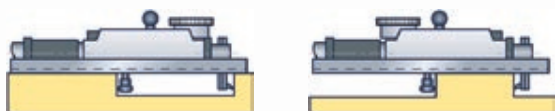


Item No.	Description	Price EUR
779.799	Unimaster set	
Options:		
779.879	Pair of measuring bolts for internal/external dimensions and grooves, tungsten carbide inserts $\phi 4 \times 7$ mm	
779.809	Extension 1000 mm	
779.875	Support roller (per roller, 2 are needed)	

TESA Inotest

The TESA Inotest is especially suitable for measuring large internal and external dimensions by comparison. The measuring direction changes from internal to external and vice versa, when adjusting the dial indicator. The telescopic extensions can be adjusted to the desired length.

- Measuring range: internal: 275 - 1025 mm,
external: 250 - 1010 mm,
larger ranges are possible.
- Measuring range dial indicator: 10 mm.
- Graduation dial indicator: 0.01 mm.
- Interchangeable measuring inserts.
- Tungsten carbide measuring faces.
- External diameter of extensions:
steel tube 25 mm; telescopic tube 19 mm.
- DIN 863 T4.
- Delivery with a declaration of conformity and
dial indicator with an inspection report.

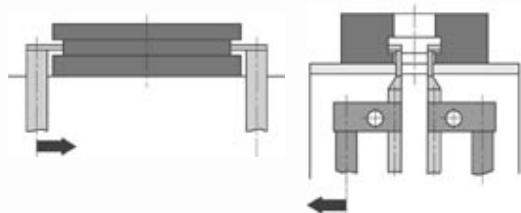


Item No.	Description	Price EUR
779.824	Inotest set	
Options:		
779.879	Pair of measuring bolts for internal/external dimensions, tungsten carbide inserts $\phi 4 \times 7$ mm	
779.868	Extension 500 mm	
779.869	Extension 1000 mm	
779.878	Measuring device for small dimensions (internal: 35 - 280 mm, external: 15 - 255 mm)	

TESA Quick-Control 160 C2

Comparative measuring instrument for internal and external dimensions, and for distances between bores. Very suitable for measuring conical and cylindrical surfaces, grooves, (blind) bores and wall thicknesses, and for detecting form and position errors such as roundness and concentricity. A large number of accessories makes the Quick-Control ideal for the serial inspection of parts. Besides the Quick-Control 160 C2 there are several models of the Quick-Control series available.

- Measuring range with optional inserts:
 - external measurements: 0 - 125 mm,
 - internal measurements: 30 - 150 mm.
- Read-out by means of a dial indicator, digital indicator or probe (to be ordered separately) with $\varnothing 8$ mm clamping stem.
- Measuring repeatability: 2 μm (excl. dial indicator, and when using standard inserts).
- Adjustable measuring force: 0 - 10 N.
- Solid base with hardened and ground steel supporting table.
- Supporting table: $\varnothing 160$ mm.
- The large number of tapped holes M8 ensure many mounting possibilities.
- Many inserts and other accessories available on request.
- Delivery in a case with a declaration of conformity.

**Set Quick-Control 160 C2:**

- basic measuring instrument,
- 1 insert holder (clamping shaft $\varnothing 8$ mm) for external dimensions 0 - 115 mm and internal dimensions 2 - 143 mm,
- 1 pair of long inserts for internal and external diameters; max. depth 3.7 mm, max. height 25 mm,
- 1 short insert as above,
- plastic case.



Item No.	Type/description	Price EUR
782.851	Quick-Control 160 C2	