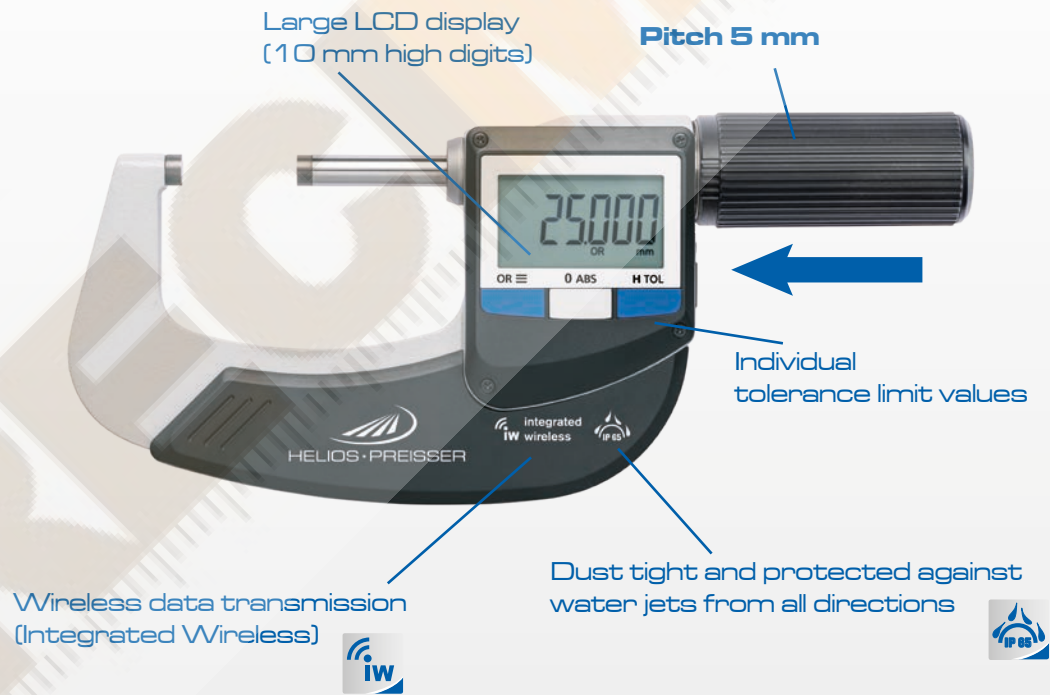
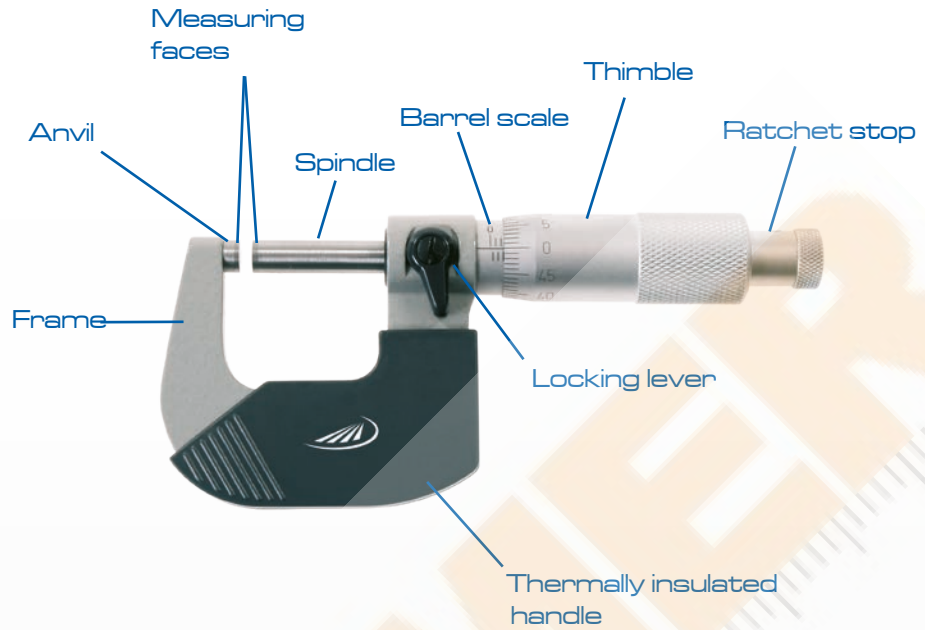




SAMPLES MICROMETERS



Micrometer highlights from our assortment



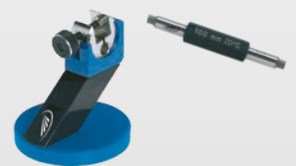
INTERNAL MICROMETERS



SPECIAL MICROMETERS



HOLDER & SETTING STANDARDS



2. CHAPTER MICROMETERS

60	External micrometers
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0800 External micrometers



DIN 863-1

Model

- DIN 863-1
- Reading: 0.01 mm
- Reading parts are satin chrome finished

Delivery

- Plastic case
- From measuring range 25 - 50 mm upwards includes a setting standard

0800 501

✂	⚙	Measuring range mm	Pitch mm	Spindle dia. mm	Thimble dia. mm	Error limit mm	Order no.	List price EUR
		0 - 25	0.5	6.5	17	0.004	0800 501	21.40
		25 - 50	0.5	6.5	17	0.004	0800 502	25.90
		50 - 75	0.5	6.5	17	0.005	0800 503	29.70
		75 - 100	0.5	6.5	17	0.005	0800 504	35.10

0800 Set of external micrometers



Delivery

- Includes 4 external micrometers
- Incl. setting gauges 25/50/75 mm
- Wooden case

DIN 863-1

✂	⚙	Measuring range mm	Pitch mm	Spindle dia. mm	Thimble dia. mm	Order no.	List price EUR
		0 - 100	0.5	6.5	17	0800 513	124.00

0807 Holder for external micrometers



Model

- With heavy cast iron base
- Vertically rotating and lockable

Delivery

- Cardboard box

✂	⚙	Measuring range mm	Order no.	List price EUR
		0 - 300	0807 101	64.00



0806 External micrometers with friction clutch



DIN 863-1



0806 501

Model

- DIN 863-1
- Reading: 0.01 mm
- Reading parts are satin chrome finished
- Locking lever
- With friction clutch (ratchet)
- Fixed quick drive
- Carbide measuring faces
- Thermally insulated

Delivery

- Plastic case
- From measuring range 25 - 50 mm upwards includes a setting gauge

⌘	⌘	Measuring range mm	Pitch mm	Spindle dia. mm	Thimble dia. mm	Error limit mm	Order no.	List price EUR
		0 - 25	0.5	6.5	18	0.004	0806 501	38.50
		25 - 50	0.5	6.5	18	0.004	0806 502	42.10
		50 - 75	0.5	6.5	18	0.005	0806 503	45.80
		75 - 100	0.5	6.5	18	0.005	0806 504	49.50

0806 Set of external micrometers with friction clutch



DIN 863-1



0806 513

Delivery

- Includes 4 external micrometers
- Incl. setting gauges 25/50/75 mm
- Wooden case

⌘	⌘	Measuring range mm	Pitch mm	Spindle dia. mm	Thimble dia. mm	Error limit mm	Order no.	List price EUR
		0 - 100	0.5	6.5	18	0.005	0806 513	181.00



0806 External micrometers



DIN
863-1



Model

- DIN 863-1
- Reading 0.01 mm
- Reading parts are satin chrome finished
- Locking lever
- Ratchet stop
- Carbide measuring faces
- Thermally insulated
- Coated steel frame

Delivery

- Plastic case
- From measuring range 25 - 50 mm upwards includes a setting standard

✕	¼	Measuring range mm	Pitch mm	Spindle dia. mm	Thimble dia. mm	Error limit mm	Order no.	List price EUR
		0 - 25	0.5	6.5	17.5	0.004	0806 521	52.00
		25 - 50	0.5	6.5	17.5	0.004	0806 522	84.00
		50 - 75	0.5	6.5	17.5	0.005	0806 523	103.00
		75 - 100	0.5	6.5	17.5	0.005	0806 524	119.00
		100 - 125	0.5	6.5	17.5	0.006	0806 525	162.00
		125 - 150	0.5	6.5	17.5	0.006	0806 526	181.00
		150 - 175	0.5	6.5	17.5	0.007	0806 527	201.00
		175 - 200	0.5	6.5	17.5	0.007	0806 528	221.00

0806 Set of external micrometers



DIN
863-1



Delivery

- Includes 4 external micrometers
- Incl. setting gauges 25 + 75 mm or 125 + 175 mm
- Wooden case

✕	¼	Measuring range mm	Pitch mm	Spindle dia. mm	Thimble dia. mm	Order no.	List price EUR
		0 - 100	0.5	6.5	17.5	0806 540	310.00
		100 - 200	0.5	6.5	17.5	0806 542	682.00



0810 External micrometers



0810 504

DIN
863-1

Model

- DIN 863-1
- Reading: 0.01 mm
- Reading parts are satin chrome finished
- Locking ring
- Spheroid ductile iron frame, lacquered
- Ratchet stop
- Carbide measuring faces
- Thermally insulated

Delivery

- Wooden case

⌘	¼	Measuring range mm	Pitch mm	Spindle dia. mm	Thimble dia. mm	Error limit mm	Order no.	List price EUR
		0 - 25	1	8	30	0.004	0810 501	312.00
		25 - 50	1	8	30	0.004	0810 502	330.00
		50 - 75	1	8	30	0.005	0810 503	346.00
		75 - 100	1	8	30	0.005	0810 504	367.00

0815 External micrometers with deep frame



0815 530

DIN
863-1

Model

- DIN 863-1
- Reading: 0.01 mm
- Reading parts are satin chrome finished
- Steel bracket lacquered
- Ratchet stop
- Carbide measuring faces

Delivery

- Wooden case

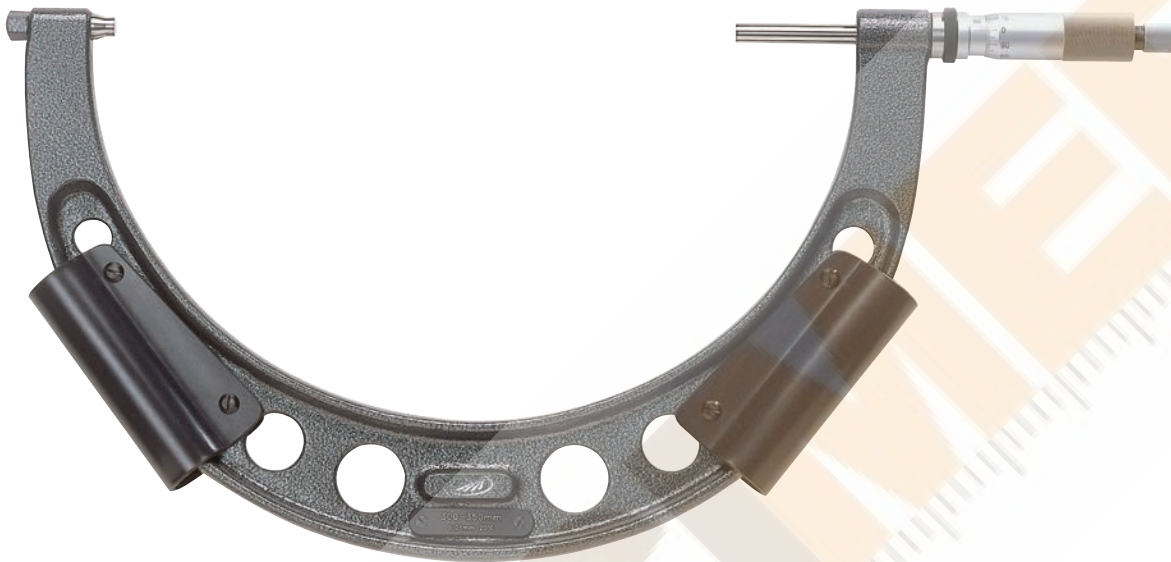
⌘	¼	Measuring range mm	Frame depth mm	Pitch mm	Spindle dia. mm	Thimble dia. mm	Error limit mm	Order no.	List price EUR
		0 - 25	100	1	8	24	0.004	0815 510	328.00
		0 - 25	150	1	6.5	24	0.004	0815 514	346.00
		0 - 25	250	1	6.5	24	0.004	0815 518	432.00
		0 - 50	50	1	8	24	0.004	0815 530	372.00
		0 - 50	100	1	8	24	0.004	0815 534	549.00
		50 - 100	100	1	8	24	0.005	0815 540	607.00



0816 External micrometers large spindle distance 50 mm



DIN
863-1



Model

- DIN 863-1
- Direct reading 0.01 mm, without addition because of thread pitch 1 mm
- Reading parts are satin chrome finished
- Locking ring
- Ratchet stop
- Carbide measuring faces
- Thermally insulated
- With 50 mm spindle movement and a wide measuring range
- Spheroid ductile iron frame, lacquered or coated light alloy frame

Delivery

- Wooden case

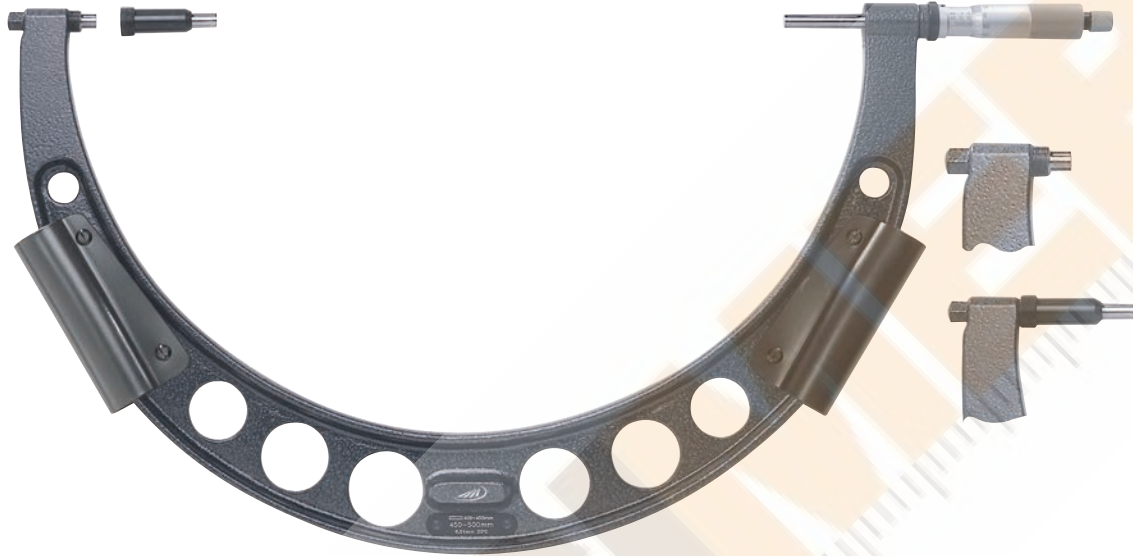
✕	⊘	Measuring range mm	Pitch mm	Spindle dia. mm	Thimble dia. mm	Error limit mm	Order no.	List price EUR
		0 - 50	1	8	24	0.004	0816 501	393.00
		50 - 100	1	8	24	0.005	0816 502	443.00
		100 - 150	1	8	24	0.006	0816 503	511.00
		150 - 200	1	8	24	0.007	0816 504	583.00
		200 - 250	1	8	24	0.008	0816 505	664.00
		250 - 300	1	8	24	0.009	0816 506	749.00
		300 - 350	1	10	24	0.01	0816 507	1058.00
		350 - 400	1	10	24	0.011	0816 508	1117.00
		400 - 450	1	10	24	0.012	0816 509	1187.00
		450 - 500	1	10	24	0.013	0816 510	1274.00
		500 - 550	1	10	24	0.015	0816 511	1374.00
		550 - 600	1	10	24	0.017	0816 512	1470.00



0817 External micrometers with wide range of applications 100 mm



DIN
863-3



2

Model

- DIN 863-3
- Direct reading 0.01 mm, without addition because of thread pitch 1 mm
- Reading parts are satin chrome finished
- Spindle adjustment 50 mm
- Reversible anvil (screwed) for measuring range extension
- Locking ring
- Ratchet stop
- Carbide measuring faces
- Thermally insulated
- Robust coated light alloy frame

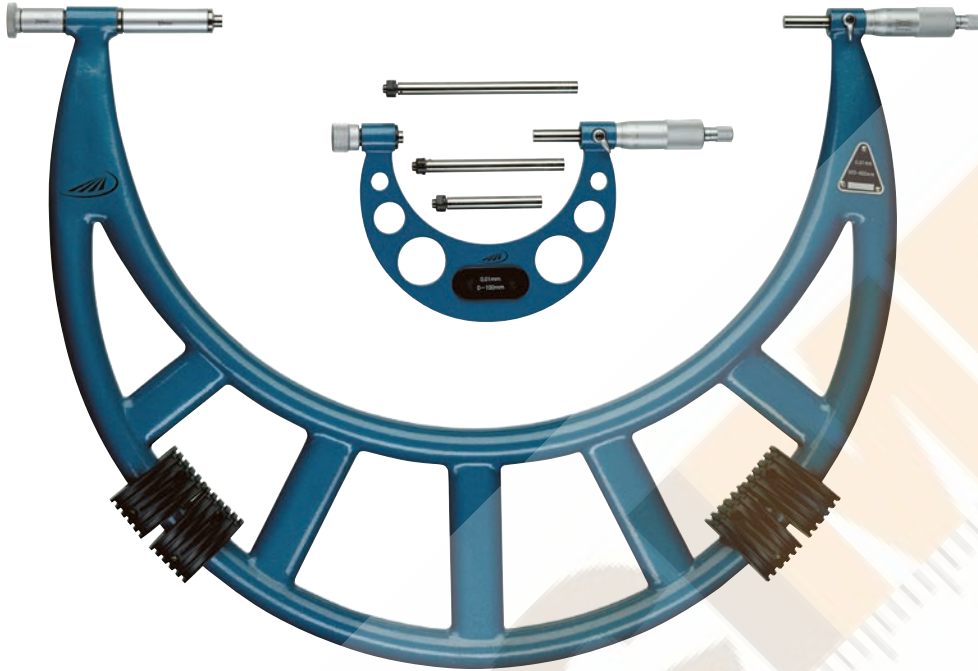
Delivery

- Wooden case

⏏	⚙	Measuring range mm	Pitch mm	Spindle dia. mm	Thimble dia. mm	Error limit mm	Order no.	List price EUR
		200 - 300	1	10	24	0.006	0817 512	1263.00
		300 - 400	1	10	24	0.007	0817 514	1313.00
		400 - 500	1	10	24	0.008	0817 516	1470.00
		500 - 600	1	10	24	0.009	0817 518	1668.00
		600 - 700	1	10	24	0.009	0817 520	1866.00
	▪	700 - 800	1	10	24	0.009	0817 522	2070.00
	▪	800 - 900	1	10	24	0.01	0817 524	2278.00
	▪	900 - 1000	1	10	24	0.01	0817 526	2520.00



0819 External micrometers with interchangeable inserts



Model

- Reading: 0.01 mm
- Reading parts are satin chrome finished
- Locking lever
- Ratchet stop
- Carbide measuring faces
- Thermally insulated
- Coated malleable cast iron frame* or coated light alloy frame with interchangeable anvil

Delivery

- Wooden case
- Includes setting standards

✕	¼	Measuring range mm	Pitch mm	Spindle dia. mm	Thimble dia. mm	Order no.	List price EUR
		0 - 100	0.5	8	20	0819 501	208.00
		0 - 150	0.5	8	20	0819 502	232.00
		100 - 200	0.5	8	20	0819 503	256.00
		150 - 300	0.5	8	20	0819 505	292.00
		200 - 300	0.5	8	20	0819 510	281.00
		300 - 400	0.5	8	24	0819 511	354.00
		400 - 500	0.5	8	24	0819 512	403.00
		500 - 600	0.5	8	24	0819 513	465.00
		600 - 700	0.5	8	24	0819 514	573.00
	▪	700 - 800	0.5	8	24	0819 515	660.00
	▪	800 - 900	0.5	8	24	0819 516	757.00
	▪	900 - 1000	0.5	8	24	0819 517	855.00
	▪	1000 - 1200	1	8	30	0819 519	1587.00
	▪	1200 - 1400	1	8	30	0819 521	1709.00
	▪	1400 - 1600	1	8	30	0819 523	2013.00
	▪	1600 - 1800	1	8	30	0819 525	2313.00
	▪	1800 - 2000	1	8	30	0819 527	2660.00



0912 Digital micrometers IP54



Model

- Protection class IP54
- Reading: 0.001 mm / .00005 inch
- Locking lever
- Ratchet stop
- Carbide measuring faces
- Thermally insulated
- Factory standard

Functions

- ON / OFF
- mm / inch switching
- Set to zero at any point

Delivery

- Plastic case
- From measuring range 25 mm upwards includes a setting standard

Icon	Measuring range		Pitch	Spindle dia.	Error limit	Order no.	List price
	mm	inch					
	0 - 25	0 - 1	0.5	6.5	0.006	0912 501	92.00
	25 - 50	1 - 2	0.5	6.5	0.006	0912 502	104.00
	50 - 75	2 - 3	0.5	6.5	0.007	0912 503	119.00
	75 - 100	3 - 4	0.5	6.5	0.007	0912 504	136.00
	100 - 125	4 - 5	0.5	6.5	0.008	0912 505	149.00
	125 - 150	5 - 6	0.5	6.5	0.008	0912 506	164.00
	150 - 175	6 - 7	0.5	6.5	0.009	0912 507	176.00
	175 - 200	7 - 8	0.5	6.5	0.009	0912 508	190.00

0912 Set of digital micrometers



Delivery

- Includes 4 micrometers
- Incl. setting gauges 25/50/75 mm
- Wooden case

Icon	Measuring range	Pitch	Spindle dia.	Order no.	List price
	mm	mm	mm		EUR
	0 - 100	0.5	6.5	0912 521	491.00



1866 Digital micrometers IP65



1866 410



1866 510



Model

- Reading: 0.001 mm / .00005 inch
- Protection class IP65
- LCD display: 10 mm
- Rapid drive
- Carbide measuring faces
- Spindle stainless, hardened and smoothed
- Frame lacquered
- Thermally insulated
- Factory standard

Functions

- ON / OFF
- **Quick-Start**
- **Quick-Lock** (key lock)
- Set to zero at any point
- mm / inch switching
- ABS (display can be set to zero without losing the ORIGIN)
- Hold

▪ Additionally 1866 5xx:

- ORIGIN (Preset value)
- Variable data output USB + Digimatic
- TOL (tolerance value input)

Delivery

- Plastic case
- From measuring range 25 mm upwards includes a setting standard

Measuring range	Pitch		Spindle dia.	Error limit	Order no.	List price
	mm	inch				
Without data output						
0 - 25	0 - 1	0.5	6.5	0.002	1866 410	234.00
25 - 50	1 - 2	0.5	6.5	0.002	1866 413	305.00
50 - 75	2 - 3	0.5	6.5	0.003	1866 417	387.00
75 - 100	3 - 4	0.5	6.5	0.003	1866 420	441.00
With DataVariable bidirectional						
0 - 25	0 - 1	0.5	6.5	0.002	1866 510	281.00
25 - 50	1 - 2	0.5	6.5	0.002	1866 513	337.00
50 - 75	2 - 3	0.5	6.5	0.003	1866 517	439.00
75 - 100	3 - 4	0.5	6.5	0.003	1866 520	491.00



1998801

1998802

Accessories

	Order no.	List price
		EUR
Data cable bidirectional DataVariable to USB	1998 801	111.00
Data cable bidirectional DataVariable to Digimatic	1998 802	96.00



1866i Digital micrometers IP65 with integrated wireless



1866 41060



integrated IW wireless

Wireless Data Transmission

2

Model

- Reading: 0.001 mm / .00005 inch
- Protection class IP65
- LCD display: 10 mm
- Rapid drive
- Carbide measuring faces
- Spindle stainless, hardened and smoothed
- Frame lacquered
- Thermally insulated
- Factory standard

Functions

- ON / OFF
- **Quick-Start**
- **Quick-Lock** (key lock)
- Set to zero at any point
- mm / inch switching
- ABS (display can be set to zero without losing the ORIGIN)
- Hold
- ORIGIN (Preset value)
- TOL (tolerance value input)
- Integrated Wireless

Delivery

- Plastic case
- From measuring range 25 mm upwards includes a setting standard

Measuring range	Measuring range		Pitch	Spindle dia.	Error limit	Order no.	List price
	mm	inch					
	0 - 25	0 - 1	0.5	6.5	0.002	1866 41060	292.00
	25 - 50	1 - 2	0.5	6.5	0.002	1866 41360	360.00
	50 - 75	2 - 3	0.5	6.5	0.003	1866 41760	439.00
	75 - 100	3 - 4	0.5	6.5	0.003	1866 42060	491.00

Accessories

	Order no.	List price
		EUR
i-Stick USB-receiver for Integrated Wireless	1998 780	108.00



More information on our i-series and Integrated Wireless on page 224

Integrated Wireless is intended to be sold within the European Economic Area only



1866i Digital micrometers IP65 linear 5 mm pitch



1866 610

5 mm
per revolution



1866 61060

5 mm
per revolution



Specification

- Reading: 0,001 mm / .00005 inch
- Protection class IP65
- LCD display: 10 mm
- **Rapid drive**
- Sliding spindle
- Carbide measuring faces
- Spindle stainless, hardened and smoothed
- Frame lacquered
- Thermally insulated
- Factory standard

Functions

- ON / OFF
- **Quick-Start**
- **Quick-Lock** (key lock)
- Set to zero at any point
- mm / inch switching
- ABS (display can be set to zero without losing the ORIGIN)
- ORIGIN (Preset value)
- Hold
- TOL (tolerance value input)

- Variable data output (1866) USB + Digimatic
- Integrated Wireless (1866i)

Delivery

- Plastic case
- From measuring range 25 mm upwards includes a setting standard

Measuring range	Measuring range		Pitch	Spindle dia.	Error limit	Order no.	List price
	mm	inch					
With DataVariable bidirectional							
0 - 25	0 - 1	5	6.5	0.002	1866 610	383.00	
25 - 50	1 - 2	5	6.5	0.002	1866 613	439.00	
50 - 75	2 - 3	5	6.5	0.003	1866 617	552.00	
75 - 100	3 - 4	5	6.5	0.003	1866 620	597.00	
With Integrated Wireless							
0 - 25	0 - 1	5	6.5	0.002	186661 060	394.00	
25 - 50	1 - 2	5	6.5	0.002	186661 360	450.00	
50 - 75	2 - 3	5	6.5	0.003	186661 760	563.00	
75 - 100	3 - 4	5	6.5	0.003	186662 060	608.00	

Integrated Wireless is intended to be sold within the European Economic Area only

Accessories



1998725

1998802

1998780

Accessories	Order no.	List price
Data cable bidirectional DataVariable to USB	1998 801	111.00
Data cable bidirectional DataVariable to Digimatic	1998 802	96.00
i-Stick USB-receiver for Integrated Wireless	1998 780	108.00



1866 Digital micrometer BASIC



Model

- Reading: 0.001 mm / .00005 inch
- Protection class IP40
- LCD display: 10 mm
- Rapid drive
- Carbide measuring faces
- Spindle stainless, hardened and smoothed
- Frame lacquered
- Thermally insulated
- Factory standard

Functions

- ON / OFF
- **Quick-Start**
- **Quick-Lock** (key lock)
- Set to zero at any point
- mm / inch switching
- Hold

Delivery

- Plastic case

Icon	Measuring range		Pitch mm	Spindle dia. mm	Error limit mm	Order no.	List price EUR
	mm	inch					
	0 - 25	0 - 1	0.5	6.5	0.002	1866 210	198.00

1866i Sets of digital micrometers



Delivery

- Plastic case
- From measuring range 25 mm upwards includes a setting standard

Icon	Measuring range		Spindle dia. mm	Order no.	List price EUR
	mm	inch			
With Integrated Wireless					
	0 - 100	0 - 4	6.5	1866 42160	1567.00
With DataVariable bidirectional					
	0 - 100	0 - 4	6.5	1866 521	1533.00

Accessories

	Order no.	List price EUR
Data cable bidirectional DataVariable to USB	1998 801	111.00
Data cable bidirectional DataVariable to Digimatic	1998 802	96.00
i-Stick USB-receiver for Integrated Wireless	1998 780	108.00



0849 Precision dial micrometers



DIN
863-3



0849 501

Model

- DIN 863-3
- Reading: 0.01 mm
- Reading on the dial: 1 μm
- Reading parts are satin chrome finished
- Retraction stroke 1.5 mm

Delivery

- Plastic case

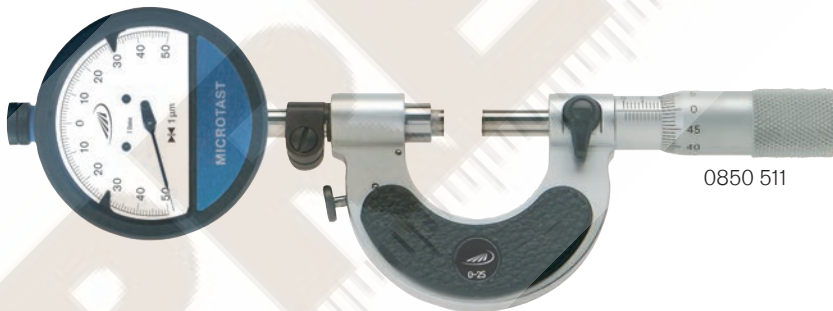
- Spindle made of hardened stainless steel
- Constant measuring force
- Locking lever
- Carbide measuring faces
- Thermally insulated

∇	$\frac{1}{2}$	Measuring range mm	Pitch mm	Spindle dia. mm	Thimble dia. mm	Order no.	List price EUR
		0 - 25	0.5	7.5	17.5	0849 501	831.00
		25 - 50	0.5	7.5	17.5	0849 502	988.00

0850 Precision dial micrometers



DIN
863-3



0850 511

Model

- DIN 863-3
- Reading: 0.01 mm
- Reading on the dial: 1 μm
- Reading parts are satin chrome finished
- Retraction stroke 1.2 mm

Delivery

- Wooden case
- Incl. dial comparator gauge

- Locking lever
- Carbide measuring faces
- Constant measuring force
- Thermally insulated
- Spindle made of hardened stainless steel
- Adjustable tolerance markers

∇	$\frac{1}{2}$	Measuring range mm	Pitch mm	Spindle dia. mm	Thimble dia. mm	Order no.	List price EUR
		0 - 25	0.5	7.5	17.5	0850 511	656.00
		25 - 50	0.5	7.5	17.5	0850 512	729.00
		50 - 100	0.5	7.5	17.5	0850 514	775.00
		100 - 150	0.5	7.5	17.5	0850 516	828.00
		150 - 200	0.5	7.5	17.5	0850 518	866.00



0822 Disc micrometers



Model

- Factory standard
- Reading: 0.01 mm
- Carbide measuring faces
- Ratchet stop
- Disc dia. 60 mm
- Malleable cast iron frame, lacquered

Delivery

- Wooden case

Measuring range mm	Pitch mm	Spindle dia. mm	Thimble dia. mm	Order no.	List price EUR
Frame depth 50 mm					
0 - 15	1	6.5	20	0822 301	108.00
0 - 25	1	6.5	20	0822 302	163.00
0 - 50	1	6.5	20	0822 303	299.00
Frame depth 100 mm					
0 - 50	1	6.5	20	0822 304	488.00

0824 Micrometers for tube wall measurement



DIN 863-3

Model

- DIN 863-3
- Reading: 0.01 mm
- Reading parts are satin chrome finished
- Ratchet stop
- Hardened measuring faces

- Malleable cast iron frame, lacquered

Delivery

- Cardboard box

Measuring range mm	Pitch mm	Spindle dia. mm	Thimble dia. mm	Error limit mm	Order no.	List price EUR
Ball dia. 2.5 mm						
0 - 15	0.5	6.5	20	0.001	0824 302	219.00
Ball dia. 6.5 mm						
0 - 25	0.5	6.5	20	0.001	0824 303	221.00



0854 Blade micrometers



DIN
863-3



Model

- DIN 863-3
- Reading: 0.01 mm
- Reading parts are satin chrome finished

Delivery

- Ratchet stop
- Thermally insulated
- Hardened spindle and anvil
- Coated steel frame
- Plastic case
- From measuring range 25 - 50 mm upwards includes a setting standard

⌘	¼	Measuring range mm	Pitch mm	Spindle dia. mm	Thimble dia. mm	Error limit mm	Order no.	List price EUR
Measuring faces dia. 0.8 x 7 mm								
		0 - 25	0.5	8	17.5	0.004	0854 301	290.00
		25 - 50	0.5	8	17.5	0.004	0854 302	352.00
		50 - 75	0.5	8	17.5	0.005	0854 303	377.00
		75 - 100	0.5	8	17.5	0.005	0854 304	410.00



0898 Settings gauges for micrometers



0898 104

Model

- Rod
- Special steel, aged
- Hardened measuring faces
- Tolerance zone js2
- Thermally insulated
- Parallel lapped measuring faces

⊗	¼	Measuring range mm	Measuring surface dia. mm	Order no.	List price EUR
		25	6.5	0898 101	12.90
		50	6.5	0898 102	21.60
		75	6.5	0898 103	25.50
		100	6.5	0898 104	29.10
		125	6.5	0898 105	33.70
		150	6.5	0898 106	47.70
		175	6.5	0898 107	54.00
		200	6.5	0898 108	59.00
		225	6.5	0898 109	65.00
		250	6.5	0898 110	72.00
		275	6.5	0898 111	76.00
		300	10	0898 112	94.00
		325	10	0898 113	102.00
		350	10	0898 114	109.00
		375	10	0898 115	115.00
		400	10	0898 116	123.00
		425	10	0898 117	131.00
		450	10	0898 118	138.00
		475	10	0898 119	145.00

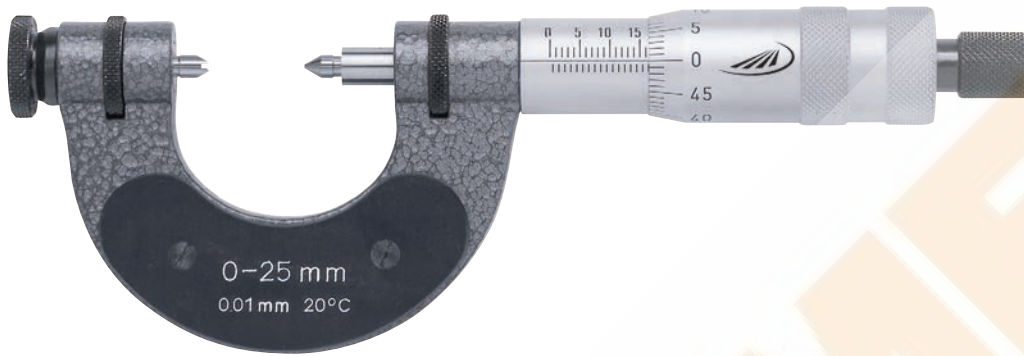
⊗	¼	Measuring range mm	Measuring surface dia. mm	Order no.	List price EUR
		500	10	0898 120	153.00
		525	10	0898 121	161.00
		550	10	0898 122	168.00
		575	10	0898 123	176.00
		600	10	0898 124	185.00
		625	10	0898 125	193.00
		650	10	0898 126	200.00
		675	10	0898 127	208.00
		700	10	0898 128	217.00
		800	10	0898 132	250.00
		900	10	0898 136	281.00
		1000	10	0898 140	313.00
	▪	1050	10	0898 142	327.00
	▪	1150	10	0898 146	359.00
	▪	1250	10	0898 150	394.00
	▪	1350	10	0898 154	424.00
	▪	1450	10	0898 158	457.00
	▪	1550	10	0898 162	732.00



0870 Precision micrometers for thread flank measurement



DIN
863-3



Model

- DIN 863-3
- Reading 0.01 mm
- Reading parts are satin chrome finished
- Locking ring
- Ratchet stop
- Thermally insulated
- Spheroid ductile iron frame, lacquered

Delivery

- Wooden case
- **Thread flank inserts and setting standards must be ordered separately**

✕	📏	Measuring range	Pitch	Thimble dia.	Error limit	Spindle adjustment	Required length of setting standard	Order no.	List price
		mm	mm	mm	mm	mm	mm		EUR
For inserts with shank dimensions, dia. 3.5 x 13.5 mm									
		0 - 25	0.5	20	0.004	25	-	0870 301	370.00
		25 - 50	0.5	20	0.004	25	25	0870 302	387.00
		50 - 75	0.5	20	0.005	25	50	0870 303	416.00
		75 - 100	0.5	20	0.005	25	75	0870 304	455.00
		100 - 125	0.5	20	0.006	25	100	0870 305	499.00
		125 - 150	0.5	20	0.006	25	125	0870 306	541.00
		150 - 200	0.5	20	0.007	50	175	0870 307	772.00
		200 - 250	0.5	20	0.008	50	225	0870 309	843.00
		250 - 300	0.5	20	0.009	50	275	0870 311	928.00



0870 Thread flank inserts for external measurement



Model

- Made of hardened special steel and finely grinded
- Every insert is inscribed with the pitch details
- In a set (V-anvil + tapered anvil)
- Shank dimensions: 3.5 x 13.5 mm

Icon	Pitch angle in degrees	Pitch mm	Applicable for UNC, UNF 60°	Thread pitch in TPI mm	Order no.	List price EUR
Metric ISO - threads						
	60°	0.35 - 0.50	72 - 48		0870 901	140.00
	60°	0.60 - 0.80	44 - 32		0870 903	121.00
	60°	0.90 - 1.25	28 - 18		0870 905	121.00
	60°	1.5 - 2.0	16 - 11		0870 907	121.00
	60°	2.5 - 3.5	10 - 7		0870 909	121.00
	60°	4.0 - 6.0	6 - 4		0870 911	140.00
Whitworth - threads						
	55°			60 - 48	0870 921	153.00
	55°			40 - 32	0870 923	132.00
	55°			28 - 22	0870 925	132.00
	55°			20 - 16	0870 927	132.00
	55°			14 - 11	0870 929	132.00
	55°			10 - 7	0870 931	132.00
	55°			6 - 4	0870 933	153.00
Metric ISO - Trapezoid threads (DIN 103)						
	30°	1.5			0870 941	359.00
	30°	2.0			0870 943	261.00
	30°	3.0			0870 945	229.00
	30°	4.0			0870 947	229.00
	30°	5.0 - 6.0			0870 949	229.00
	30°	7.0 - 8.0			0870 951	229.00
	30°	9.0 - 10.0			0870 953	261.00
	30°	12.0 - 14.0			0870 955	359.00





0870 Thread flank setting gauges for external measurement



Model

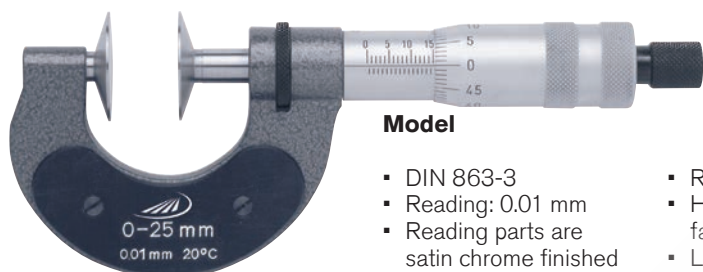
- Measuring faces made of hardened special steel
- One end is rounded, the lapped bore simplifies the fitting upon the conical insert
- Thermally insulated handle
- **Note: With trapezoid treads every pitch requires a separate setting standard**

		Length mm	Pitch angle in degrees	Available for following pitches mm	Error limit µm	Order no.	List price EUR
Metric ISO - threads							
		25	60°		3	0870 801	88.00
		50	60°		3	0870 802	90.00
		75	60°		3	0870 803	91.00
		100	60°		4	0870 804	92.00
		125	60°		4	0870 805	93.00
		175	60°		4	0870 807	103.00
		225	60°		4	0870 809	117.00
		275	60°		4	0870 811	128.00
Whitworth - threads							
		25	55°		3	0870 821	88.00
		50	55°		3	0870 822	90.00
		75	55°		3	0870 823	91.00
		100	55°		4	0870 824	97.00
		125	55°		4	0870 825	99.00
		175	55°		4	0870 827	113.00
		225	55°		4	0870 829	129.00
		275	55°		4	0870 831	148.00
Metric ISO - Trapezoid threads (DIN 103)*							
		25	30°	2 / 3 / 4 / 5 - 6 / 7 - 8 / 9 - 10	4	0870 841	192.00
		50	30°	2 / 3 / 4 / 5 - 6 / 7 - 8 / 9 - 10	4	0870 842	198.00
		75	30°	2 / 3 / 4 / 5 - 6 / 7 - 8 / 9 - 10	4	0870 843	203.00
		100	30°	3 / 4 / 5 - 6 / 7 - 8 / 9 - 10 / 12 - 14	5	0870 844	211.00
		125	30°	4 / 5 - 6 / 7 - 8 / 9 - 10 / 12 - 14	5	0870 845	229.00
		175	30°	4 / 5 - 6 / 7 - 8 / 9 - 10 / 12 - 14	5	0870 847	273.00
		225	30°	5 - 6 / 7 - 8 / 9 - 10 / 12 - 14	5	0870 849	333.00
		275	30°	5 - 6 / 7 - 8 / 9 - 10 / 12 - 14	5	0870 851	408.00

* When ordering the respective pitch must be specified



0864 Disc micrometers to measure gear tooth



DIN
863-3

Model

- DIN 863-3
- Reading: 0.01 mm
- Reading parts are satin chrome finished
- Modul 0.8 - 6
- Ratchet stop
- Hardened measuring faces
- Locking ring
- Friction coupling
- Thermally insulated

Delivery

- Wooden case

⌘	⌘	Measuring range mm	Disc dia. mm	Pitch mm	Thimble dia. mm	Error limit mm	Order no.	List price EUR
		0 - 25	25	0.5	20	0.004	0864 321	372.00
		25 - 50	25	0.5	20	0.004	0864 322	447.00
		50 - 75	25	0.5	20	0.005	0864 323	484.00
		75 - 100	25	0.5	20	0.005	0864 324	526.00
		100 - 125	25	0.5	20	0.006	0864 325	567.00
		125 - 150	25	0.5	20	0.006	0864 326	608.00
		150 - 175	25	0.5	20	0.007	0864 327	653.00
		175 - 200	25	0.5	20	0.007	0864 328	698.00

0890 Wire thickness micrometer



Model

- Factory standard
- Reading: 0.01 mm
- Readings parts are satin chrome finished
- Ratchet stop
- Carbide measuring faces

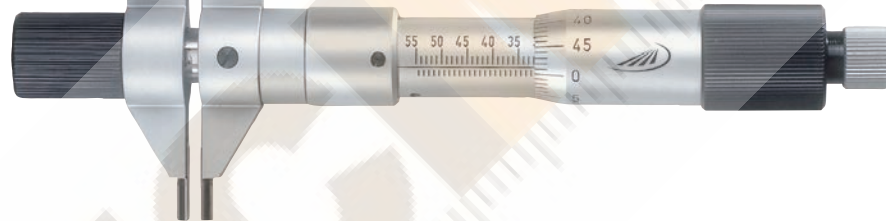
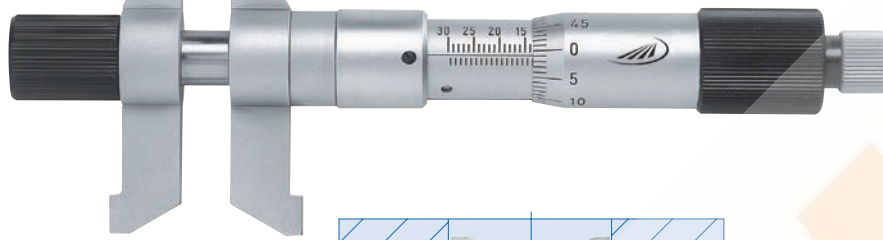
Delivery

- Cardboard box

⌘	⌘	Measuring range mm	Pitch mm	Spindle dia. mm	Thimble dia. mm	Order no.	List price EUR
		0 - 10	0.5	6	18	0890 511	78.00



0884 Internal micrometer with measuring jaws



Model

**DIN
863-4**

- DIN 863-4
- Reading: 0.01 mm
- Reading parts are satin chrome finished
- Forward friction coupling
- Cylindrical carbide tipped measuring faces
- Measuring jaws on both sides (measuring ranges 5-30 mm, 30-55 mm)
- Divisions on both sides

Delivery

- Wooden case

✂	¼	Measuring range mm	Thimble dia. mm	Pitch mm	Error limit µm	Order no.	List price EUR
		5 - 55	20	0.5	2.5	0884 501	998.00

0885 Internal micrometers with measuring jaws



0885 502

Model

- Factory standard
- Reading: 0.01 mm
- Reading parts and body are satin chrome finished
- Ratchet stop
- Carbide measuring faces
- Cylindrical carbide tipped measuring faces

Delivery

- Plastic case

✂	¼	Measuring range mm	Thimble dia. mm	Pitch mm	Order no.	List price EUR
		5 - 30	17	0.5	0885 501*	207.00
		25 - 50	17	0.5	0885 502	229.00
		50 - 75	17	0.5	0885 503	241.00
		75 - 100	17	0.5	0885 504	288.00
		100 - 125	17	0.5	0885 505	366.00
		125 - 150	17	0.5	0885 506	422.00
		150 - 175	17	0.5	0885 507	537.00
		175 - 200	17	0.5	0885 508	609.00



0888 Internal micrometers cylindrical version



DIN
863-4

Model

- DIN 863-4
- Reading: 0.01 mm
- Reading parts are satin chrome finished
- Carbide measuring faces dia. 6 mm, spherical lapped
- From measuring range 100 - 125 mm with thermal insulation

- From measuring range 100 - 125 mm with locking ring

Delivery

- Wooden case

⌂	⌂	Measuring range mm	Thimble dia. mm	Pitch mm	Error limit µm	Order no.	List price EUR
		25 - 30	15	0.5	4	0888 501	193.00
		30 - 35	15	0.5	4	0888 502	193.00
		35 - 50	15	0.5	4	0888 503	193.00
		50 - 75	16	0.5	5	0888 504	202.00
		75 - 100	17	0.5	5	0888 505	209.00
		100 - 125	20	0.5	6	0888 506	234.00
		125 - 150	20	0.5	6	0888 507	239.00
		150 - 175	20	0.5	7	0888 508	247.00
		175 - 200	20	0.5	7	0888 509	257.00
		200 - 225	20	0.5	8	0888 510	264.00
		225 - 250	20	0.5	8	0888 511	272.00
		250 - 275	20	0.5	9	0888 512	281.00
		275 - 300	20	0.5	9	0888 513	292.00
		300 - 325	20	0.5	10	0888 514	304.00
		325 - 350	20	0.5	10	0888 515	310.00
		350 - 375	20	0.5	11	0888 516	324.00
		375 - 400	20	0.5	11	0888 517	331.00
		400 - 425	20	0.5	12	0888 518	343.00
		425 - 450	20	0.5	12	0888 519	354.00
		450 - 475	20	0.5	13	0888 520	362.00
		475 - 500	20	0.5	13	0888 521	370.00

0888 Holder for internal micrometers



Model

- Ideal for all internal micrometers from series 0888 / 0892
- Length 200 mm

⌂	⌂	Order no.	List price EUR
		0888 101	62.00



0892 Internal micrometers with interchangeable extensions



DIN
863-4

0892 501

Model

- DIN 863-4
- Reading: 0.01 mm
- Reading parts are satin chrome finished
- Threaded extension rods with thermally insulated handle
- Carbide measuring faces, spherical lapped

Delivery

- Wooden case

✂	%	Measuring range	Thimble dia.	Pitch	Extensions	Error limit	Order no.	List price
		mm	mm	mm		µm		EUR
		50 - 150	17	0.5	25 / 50	6	0892 501	473.00
		50 - 250	17	0.5	25 / 50 / 100	8	0892 502	580.00
		50 - 450	17	0.5	25 / 50 / 100 / 200	10	0892 503	714.00
		50 - 850	17	0.5	25 / 50 / 100 / 200 / 400	12	0892 504	900.00
		50 - 1450	17	0.5	25 / 50 / 100 / 200 / 400 / 600	15	0892 505	1142.00

0892 Extensions for internal micrometers



0892 334

✂	%	Length mm	Order no.	List price EUR
		25	0892 332	90.00
		50	0892 333	91.00
		100	0892 334	101.00
		200	0892 336	123.00
		400	0892 339	163.00
		600	0892 340	229.00



0894 Precision internal micrometers with extensions

DIN 863-4



Model

- DIN 863-4
- Measuring ends: dia. 7 mm x 6 mm long, carbide tipped spherical lapped
- Thread pitch 1 mm
- Internal spring mounted rods with thermal protective sleeves

- Extensions greater than 100 mm: external steel tube dia. 17 mm, with thermal insulation
- Extensions 500 and 1000 mm: strengthened specification - steel tube dia. 32 mm

- Basic internal micrometer is adjustable: 50 mm. The spindle is tight, so that during measurement the thimble does not adjust itself.

Delivery

- Wooden case

✕	⊘	Measuring range mm	Length of extensions mm (tube dia. 17 mm)	Length of extensions mm (tube dia. 32 mm)	Error limit μm	Order no.	List price EUR
		100 - 150	only micrometer, excludes case	-	4	0894 504	281.00
		100 - 300	50 / 100	-	7	0894 510	748.00
		100 - 500	50 / 100 / 200 / 400	-	9	0894 514	1009.00
		100 - 900	50 / 100 / 200 / 400	-	11	0894 518	1303.00
		100 - 1300	50 / 100 / 200 / 400 / 400	-	13	0894 522	1604.00
		100 - 1700	50 / 100 / 200 / 400 / 800	-	15	0894 526	1650.00
		100 - 2100	50 / 100 / 200 / 400 / 400 / 800	-	18	0894 530	1936.00
		100 - 2500	50 / 100 / 200 / 400 / 800 / 800	-	21	0894 534	1987.00
		100 - 2000	50 / 100 / 200 / 200	500 / 1 x 1000	18	0894 538	3469.00
		100 - 3000	50 / 100 / 200 / 200	500 / 2 x 1000	30	0894 542	4525.00
		100 - 4000	50 / 100 / 200 / 200	500 / 3 x 1000	40	0894 546	5617.00
	▪	100 - 5000	50 / 100 / 200 / 200	500 / 4 x 1000	50	0894 550	6673.00
	▪	100 - 6000	50 / 100 / 200 / 200	500 / 5 x 1000	60	0894 554	7731.00

With the larger measuring ranges we recommend that the ends of the precision internal micrometer to be placed and/or held on 2 points with an approximate distance of 22% of the measuring length, thus minimizing deflection. The error indicated in the table above refers to the maximum deflection of the appropriate set. When smaller dimensions are measured, the error is smaller and corresponds to the error value of the smaller sets.

0894 Individual extensions



✕	⊘	Length mm	Tube dia. mm	Order no.	List price EUR
		50	17	0894 804	202.00
		100	17	0894 806	229.00
		200	17	0894 810	247.00
		400	17	0894 820	273.00
		800	17	0894 834	310.00
		500	32	0894 854	1019.00
		1000	32	0894 872	1058.00



1921 3 point internal micrometers



DIN
863-4



1921 512



1921 534

Model

- DIN 863-4
- Reading: 0.001 mm*
- Reading: 0.005 mm
- Reading parts are satin chrome finished
- Pitch 0.5 mm
- Carbide tipped measuring pins from measuring range 12 mm

Delivery

- Plastic case
- Incl. setting ring
- Calibration certificate for ring and micrometer



Inclusive!

✂	📏	Measuring range mm	Measuring depth mm	Thimble dia. mm	Error limit µm	Order no.	List price EUR
▪		6 - 8	58	16	4	1921 510*	449.00
▪		8 - 10	58	16	4	1921 512*	449.00
▪		10 - 12	58	16	4	1921 514*	449.00
▪		12 - 16	64	16	4	1921 516*	449.00
▪		16 - 20	64	16	4	1921 518*	476.00
▪		20 - 25	68	25	4	1921 520	488.00
▪		25 - 30	68	25	4	1921 522	495.00
▪		30 - 40	76	25	4	1921 524	556.00
▪		40 - 50	76	25	4	1921 526	556.00
▪		50 - 60	79	25	5	1921 528	641.00
▪		60 - 70	79	25	5	1921 530	660.00
▪		70 - 85	97	25	5	1921 532	678.00
▪		85 - 100	97	25	5	1921 534	696.00
▪		100 - 125	132	25	6	1921 536	976.00
▪		125 - 150	132	25	6	1921 538	1153.00
▪		150 - 175	132	25	7	1921 540	1214.00
▪		175 - 200	132	25	7	1921 542	1282.00



1920 Set of 3 point internal micrometers

DIN 863-4



Model

- DIN 863-4
- Reading: 0.001 mm*
- Reading: 0.005 mm
- Reading parts are satin chrome finished
- Pitch 0.5 mm
- Carbide tipped measuring pins from measuring range 12 mm
- Ratchet stop
- From measuring range 12 mm for through and blind holes

Delivery

- Plastic case
- Incl. setting ring
- Calibration certificate for ring and micrometer

2

⌘	⚙	Measuring range mm	Thimble dia. mm	Number of devices	Order no.	List price EUR
▪		6 - 12	16	3	1920 574	1270.00
▪		12 - 20	16	2	1920 576	891.00
▪		20 - 50	25	4	1920 578	2197.00
▪		50 - 100	25	4	1920 580	2624.00

1920 Measuring depth extensions for 3 point internal micrometers

Model

- Suitable for devices 1920, 1921, 1923 and 1924



⌘	⚙	Measuring range mm	Length mm	Order no.	List price EUR
		6 - 12	75	1920 910	104.00
		12 - 20	75	1920 914	111.00
		20 - 30	100	1920 920	117.00
		30 - 200	100	1920 924	140.00



1923 DIGI-MET® 3 point internal micrometers



Model

- DIN 863-4
- Reading: 0.001 mm / .00005 inch
- Protection class IP52
- LCD display 8.5 mm
- Ratchet stop
- For through holes
- From measuring range 12 mm for through and blind holes
- From measuring range 12 mm with carbide tipped measuring faces

Functions

- ON / OFF
- Set to zero at any point
- mm / inch switching
- ABS (display can be set to zero without losing the Preset value)
- **Quick-Lock** (key lock)
- PRESET-Function (setting a numerical value)
- Variable data output RS 232 + Digimatic + USB

Delivery

- Plastic case
- Incl. setting ring
- Calibration certificate for setting ring and micrometer



Inclusive!

✕	☒	Measuring range	Measuring depth	Error limit	Order no.	List price EUR
		mm	mm	µm		
▪		6 - 8	58	4	1923 510	1239.00
▪		8 - 10	58	4	1923 512	1239.00
▪		10 - 12	58	4	1923 514	1251.00
▪		12 - 16	64	4	1923 516	1251.00
▪		16 - 20	64	4	1923 518	1304.00
▪		20 - 25	68	4	1923 520	1327.00
▪		25 - 30	68	4	1923 522	1339.00
▪		30 - 40	76	4	1923 524	1398.00
▪		40 - 50	76	4	1923 526	1404.00
▪		50 - 60	79	5	1923 528	1510.00
▪		60 - 70	79	5	1923 530	1544.00
▪		70 - 85	97	5	1923 532	1579.00
▪		85 - 100	97	5	1923 534	1639.00
▪		100 - 125	132	6	1923 536	1991.00
▪		125 - 150	132	6	1923 538	2226.00
▪		150 - 175	132	7	1923 540	2397.00
▪		175 - 200	132	7	1923 542	2602.00



1998720



1998501



1997501

Accessories

	Order no.	List price EUR
Data cable DATA VARIABLE to RS232	1997 501	57.00
Data cable DATA VARIABLE to digimatic	1998 501	73.00
Data cable DATA VARIABLE to USB	1998 720	82.00



HELIOS · PREISSER

1923 DIGI-MET® Set of 3 point internal micrometers



Delivery

- Plastic case
- Incl. setting ring
- Calibration certificate for setting ring and micrometer



Measuring range	Error limit	Number of devices	Order no.	List price
				EUR
6 - 12	4 μm	3	1923 574	1996.00
12 - 20	4 μm	2	1923 576	1762.00
20 - 50	4 μm	4	1923 578	2584.00
50 - 100	5 μm	4	1923 580	3171.00



Accessories

	Order no.	List price
		EUR
Data cable DATA VARIABLE to RS232	1997 501	57.00
Data cable DATA VARIABLE to digimatic	1998 501	73.00
Data cable DATA VARIABLE to USB	1998 720	82.00

1923 DIGI-MET® Basic unit for 3 point internal micrometers



Model

- Reading: 0.001 mm / .00005 inch
- Protection class IP52
- LCD display 8.5 mm
- Ratchet stop
- Mounting thread for changing of measuring heads

Functions

- ON / OFF
- Set to zero at any point
- mm / inch switching
- ABS (display can be set to zero without losing the Preset value)
- Quick-Lock (key lock)
- PRESET-Function (setting a numerical value)
- Variable data output RS 232 + Digimatic + USB

Measuring range	Order no.	List price
mm		EUR
6 - 20	1923 100	899.00
20 - 100	1923 200	899.00
100 - 200	1923 300	899.00

Single measuring heads on page 116



1924 DIGI-MET® 3 point internal measuring pistols



Model

- For through holes
- Mounting thread for changing of measuring heads
- From measuring range 12 mm for through and blind holes
- From measuring range 12 mm with carbide tipped measuring faces
- Digital indicator recommended as display device

Delivery

- Plastic case
- Incl. setting ring
- Without display device
- Calibration certificate
for setting ring included



Inclusive!

⌘	⚙	Measuring range mm	Measuring depth mm	Order no.	List price EUR
▪		6 - 8	58	1924 510	922.00
▪		8 - 10	58	1924 512	922.00
▪		10 - 12	58	1924 514	934.00
▪		12 - 16	64	1924 516	946.00
▪		16 - 20	64	1924 518	981.00
▪		20 - 25	68	1924 520	981.00
▪		25 - 30	68	1924 522	1016.00
▪		30 - 40	76	1924 524	1069.00
▪		40 - 50	76	1924 526	1075.00
▪		50 - 60	79	1924 528	1169.00
▪		60 - 70	79	1924 530	1215.00
▪		70 - 85	97	1924 532	1257.00
▪		85 - 100	97	1924 534	1316.00
▪		100 - 125	132	1924 536	1621.00
▪		125 - 150	132	1924 538	1868.00
▪		150 - 175	132	1924 540	1996.00
▪		175 - 200	132	1924 542	2232.00



1726506



172650660

Accessories

- DIGI-MET® Indicator
- DIGI-MET® Indicator with integrated wireless

Order no.

- 1726 506
- 172650 660

List price EUR

- 429.00
- 479.00

Calibration certificate for pistol and head only possible in combination with an Indicator



1924 DIGI-MET® Set of 3 point internal measuring pistols



Model

- For through holes
- From measuring range 12 mm for through and blind holes
- From measuring range 12 mm with carbide tipped measuring faces
- Digital indicator recommended as display device

Delivery

- Plastic case
- Incl. setting ring
- Without display device
- Calibration certificate **for setting ring** included

Measuring range mm	Number of devices	Order no.	List price EUR
6 - 12	3	1924 574	1645.00
12 - 20	2	1924 576	1409.00
20 - 50	4	1924 578	2349.00
50 - 100	4	1924 580	3054.00

Calibration certificate for pistol and head on request, only possible in combination with an Indicator

1924 DIGI-MET® Basic unit for 3 point internal measuring pistols



Model

- Mounting thread for changing of measuring heads
- Support for indicators with shaft \varnothing 8 mm
- Measuring range 6-100 mm incl. adapter for 6-20 mm

Delivery

- Plastic case

Measuring range mm	Order no.	List price EUR
6 - 100	1924 100	564.00
20 - 100	1924 200	564.00
100 - 200	1924 300	659.00

Accessories

	Order no.	List price EUR
Replacement adapter 6-20 mm for measuring pistol 1924 100	1924 190	90.00

Single measuring heads on page 90



1922 Individual measuring heads for 1923 / 1924



1922 512



1922 534

Model

- Self centering measuring head with three anvils, offset at intervals of 120°
- From measuring range 12 mm with carbide tipped measuring faces
- From measuring range 12 mm for through and blind holes
- From measuring range 40 mm, measuring heads are made of aluminium to reduce weight
- Can only be used on digital internal micrometers

⌘	⚙	Measuring range mm	Order no.	List price EUR
		6 - 8	1922 510	341.00
		8 - 10	1922 512	341.00
		10 - 12	1922 514	346.00
		12 - 16	1922 516	346.00
		16 - 20	1922 518	359.00
		20 - 25	1922 520	370.00
		25 - 30	1922 522	383.00
		30 - 40	1922 524	429.00
		40 - 50	1922 526	429.00
		50 - 60	1922 528	511.00
		60 - 70	1922 530	523.00
		70 - 85	1922 532	540.00
		85 - 100	1922 534	558.00
		100 - 125	1922 536	816.00
		125 - 150	1922 538	992.00
		150 - 175	1922 540	1075.00
		175 - 200	1922 542	1111.00

1920 Measuring depth extensions for 3 point internal micrometers



Model

- Suitable for devices 1920, 1921, 1923 and 1924



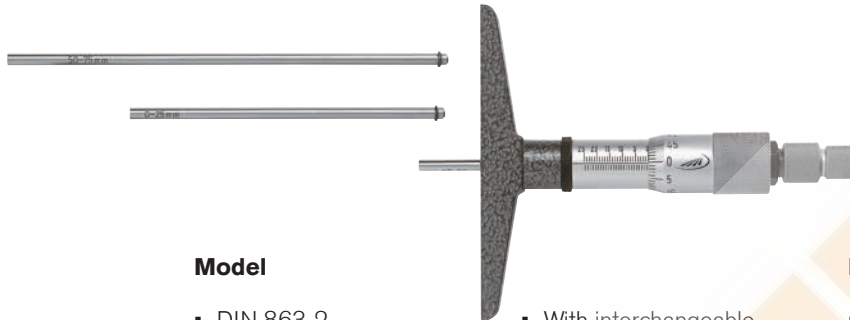
⌘	⚙	Measuring range mm	Length mm	Order no.	List price EUR
		6 - 12	75	1920 910	104.00
		12 - 20	75	1920 914	111.00
		20 - 30	150	1920 920	117.00
		30 - 200	150	1920 924	140.00



0882 Depth micrometers



DIN
863-2



Model

- DIN 863-2
- Reading: 0.01 mm
- Reading parts are satin chrome finished
- Locking ring
- Friction coupling

Delivery

- Wooden case

- With interchangeable steel measuring inserts dia. 4 mm
- Hardened measuring faces

»	¼	Measuring range mm	Length of beam mm	Pitch mm	Thimble dia. mm	Error limit mm	Order no.	List price EUR
Measuring faces dia. 0.8 mm, length 8.5 mm								
		0 - 50	50	0.5	20	0.004	0882 300	331.00
		0 - 75	50	0.5	20	0.005	0882 301	360.00
		0 - 100	100	0.5	20	0.005	0882 303	395.00
		0 - 150	100	0.5	20	0.006	0882 304	463.00
		0 - 300	100	0.5	20	0.009	0882 306	744.00

0886 Micrometer heads



DIN
863-2



0886 503



0886 507

Model

- DIN 863-2
- Reading: 0.01 mm
- Reading parts are satin chrome finished
- Carbide measuring faces

Delivery

- Plastic case

»	¼	Measuring range mm	Spindle dia. mm	Thimble dia. mm	Attachment dia. mm	Error limit mm	Description	Order no.	List price EUR
		0 - 6.5	3.5	9.5	6.0	0.003	without ratchet stop	0886 503	27.50
		0 - 13	6.5	13.5	9.5	0.003	without ratchet stop	0886 505	31.70
		0 - 25	6.5	18	12	0.003	with ratchet stop	0886 507	27.50
		0 - 25	8	18	12	0.003	ratchet stop, non-rotating spindle	0886 513	48.80