



HELIOS • PREISSER



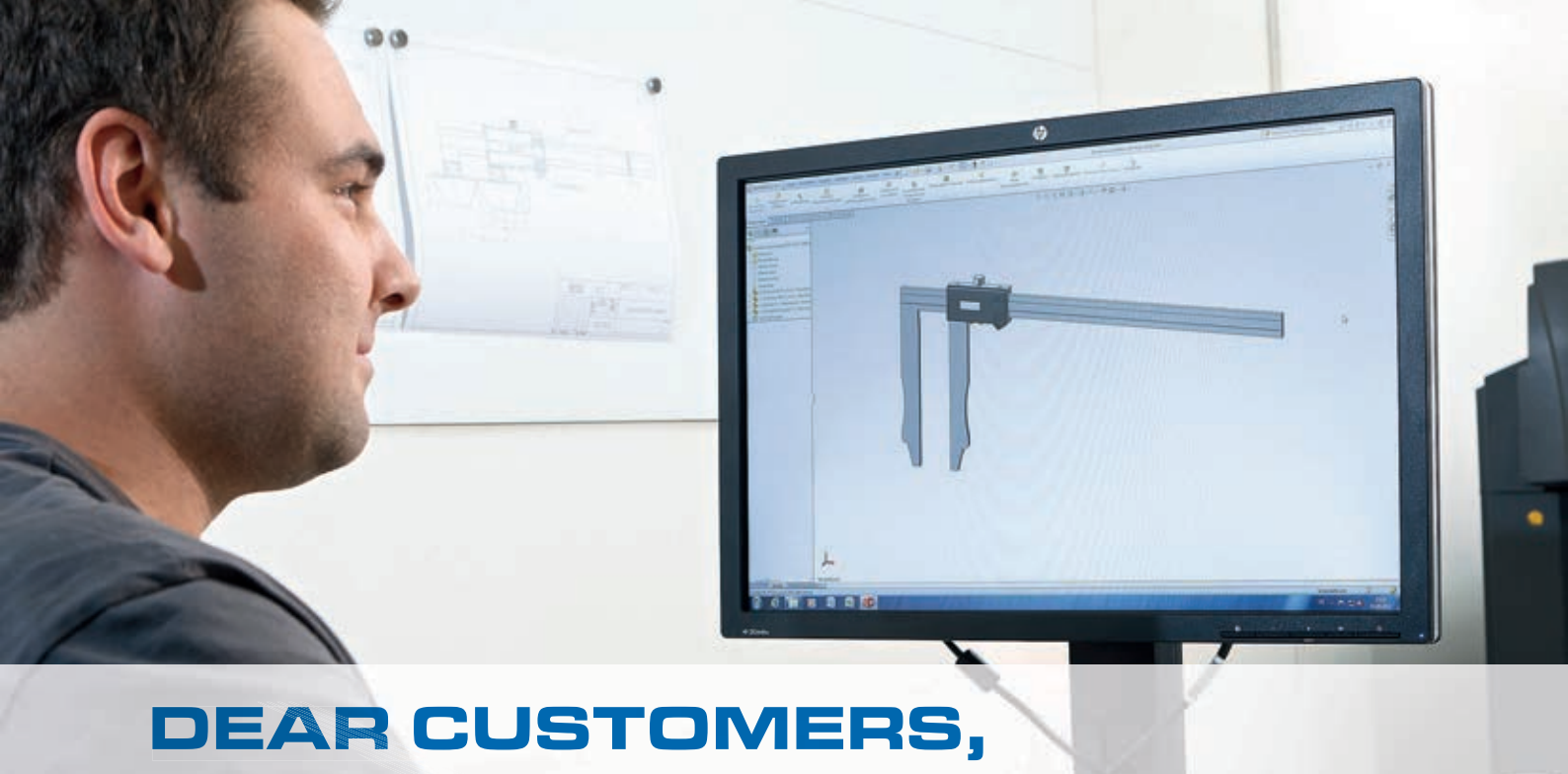
In Germany at home,
in demand worldwide

Metrology
2013

The image features a close-up, low-angle shot of a series of metallic, U-shaped components, likely part of a server rack or a specialized industrial machine. The components are arranged in a row, receding into the background, creating a strong sense of depth. The lighting is dramatic, with a bright blue glow emanating from the left side, casting long, soft shadows and highlighting the metallic surfaces. In the top right corner, the letters "HP" are prominently displayed in a bold, black, sans-serif font, enclosed within a thin, dark blue oval border. The background is a deep, textured blue, and the overall composition is clean and modern, emphasizing precision and technology.

HP





DEAR CUSTOMERS,

Welcome to our new catalogue; in the 2011 catalogue our focus was the “merger between both the HELIOS and PREISSER brands”. In this catalogue we are now focusing on quality; HELIOS•PREISSER has established itself as a quality brand and one which in the future will be globally available under the following motto; “In Germany at home - in demand worldwide”, thus offering you the optimal solution wherever you are.

Quality is our trade mark – Service is essential, therefore we are all working together in order to perfect this process. The advantages with this customer orientated strategy are that we aim to offer you efficient, fast and uncomplicated support throughout the entire process; this can also be seen within this well-structured and clearly laid out catalogue. Whether faster delivery, higher availability of stock or our “Made-in-Germany-Philosophy” – as a partner we wish to offer you a better class of quality in all areas and thus provide you with added value.

We firmly believe that working closely together with you makes us stronger as well as with well-founded values, open dialogues and excellent products.

Just ask us and we will exceed your expectations!

Rainer Fahrenholz
Marketing and Sales Manager

HELIOS•PREISSER







WE ARE DEVOTED TO OUR MADE-IN-GERMANY- PHILOSOPHY

As the world is getting smaller and borders are disappearing, it is paramount that quality is not lost or ignored. Therefore, we attach great importance to maintaining a high degree of manufacturing and production in our own hands, so that we can influence our own depth of manufacturing as well as to incorporate and continuously improve the quality and ability of advice offered by our specialist traders. Every day professionals must not only do a good but an outstanding job; our hand measuring instruments help to contribute to this success.

We are convinced that quality is important and this is what unites us. We are present with our precision from the Swabian Alb around the world; we are committed to Germany for many reasons– not least because the key to our successful product portfolio to know exactly what our customers expect, that special requests require specialized products, thus we are always engaged to finding the optimal solution for the customer.





Unternehmen
Produkte
Aktionen
Download
HOREX
AGB
Kontakt
Impressum

13 von 274

PowerBook G4



QUICKER, EASIER AND MORE EFFICIENT

Regardless of whether you wish to browse or download – the complete catalogue is available online. As we are only satisfied with the best possible solution, our partners work with a PIM-Databank: with systematic photos and illustrations, text, technical data as well as prices are all available and up to date; using this framework, brochures or catalogues can be simply and quickly created.

Our new online service is accompanied by an E-Shop, which is available for our trade partners and comprises of all the necessary information regarding product availability, quotation and order processing. During the second half of 2013 this new chapter will open on our website www.HELIOS-PREISSER.de. This will significantly simplify both the daily work and cooperation for our partners and also speed up our internal processes: with this saved time we can satisfy your requirements even more!





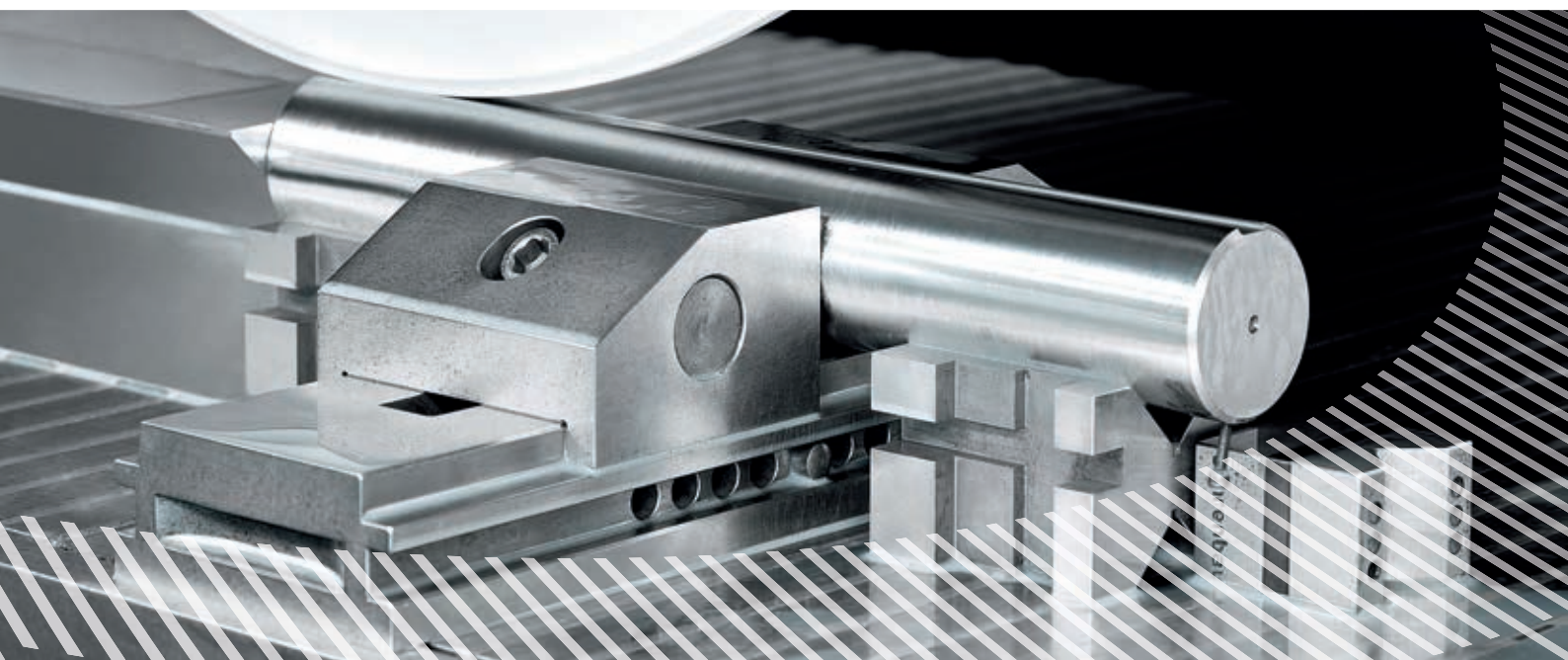


WORKING TOGETHER TO ACHIEVE SUCCESS

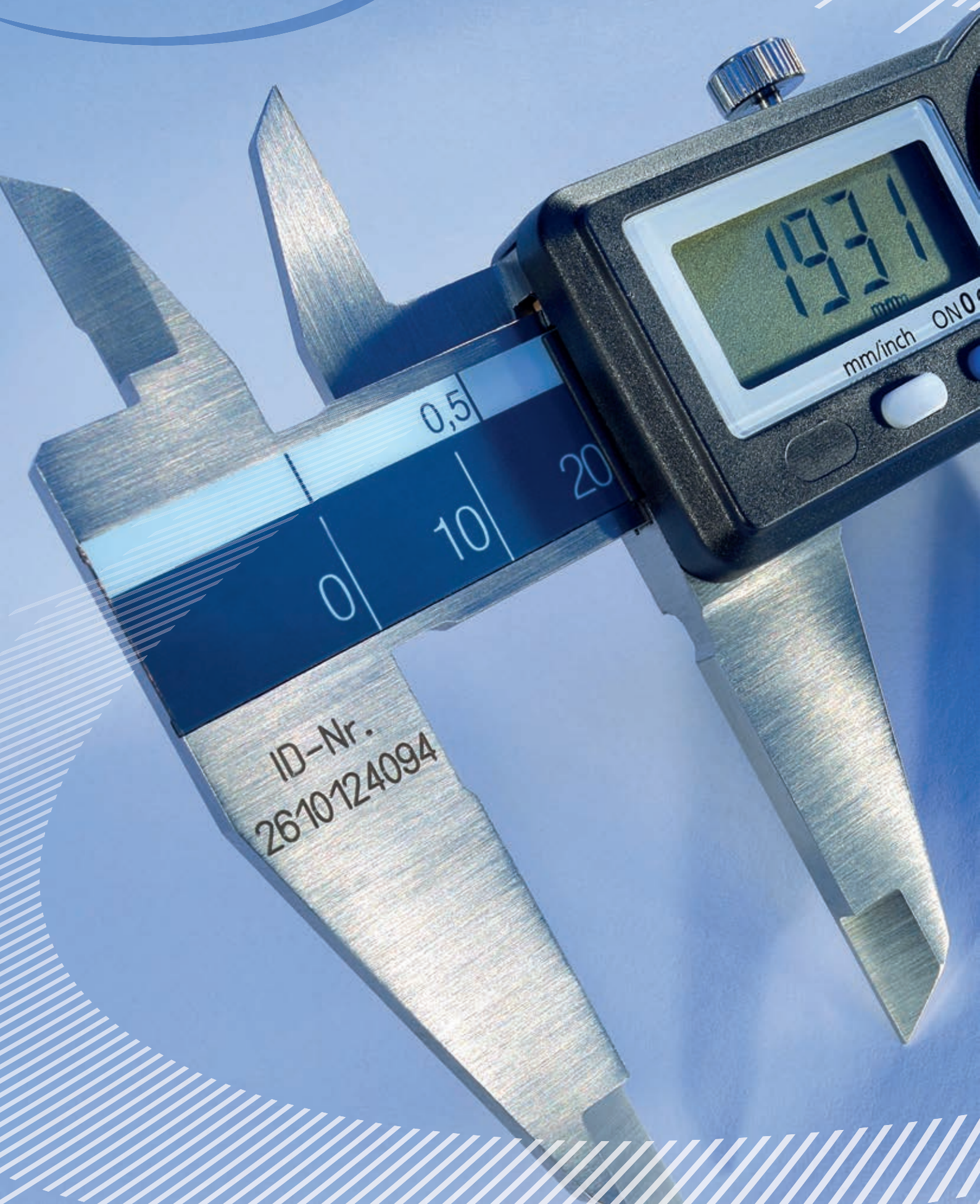
Top products and a strong brand help our customers to stay at the forefront. We have been able uphold these requirements with the merger of two very successful brands, with a 175 years of combined experience in metrology. However, there are further reasons that make HELIOS•PREISSER an ideal supplier of professional metrology:

- We offer first class quality from Gammertingen
- Over 5000 specialist dealers combine a global advisory network which is based on partnership
- A wide and extensive range of hand measuring instruments for various target groups
- Customized solutions so that professionals with very demanding requirements can work to precision
- Comprehensive service from high product availability to fast delivery
- Flexible, quick to respond to individual requirements; for example, specially designed products
- Supporting activities; such as offering advice and training - no question regarding hand measuring instruments goes unheard or answered.

The success story which began both for HELIOS in 1910 and for PREISSER in 1939 will continue in the future; you, our customers are the key!



HP



CONTENTS



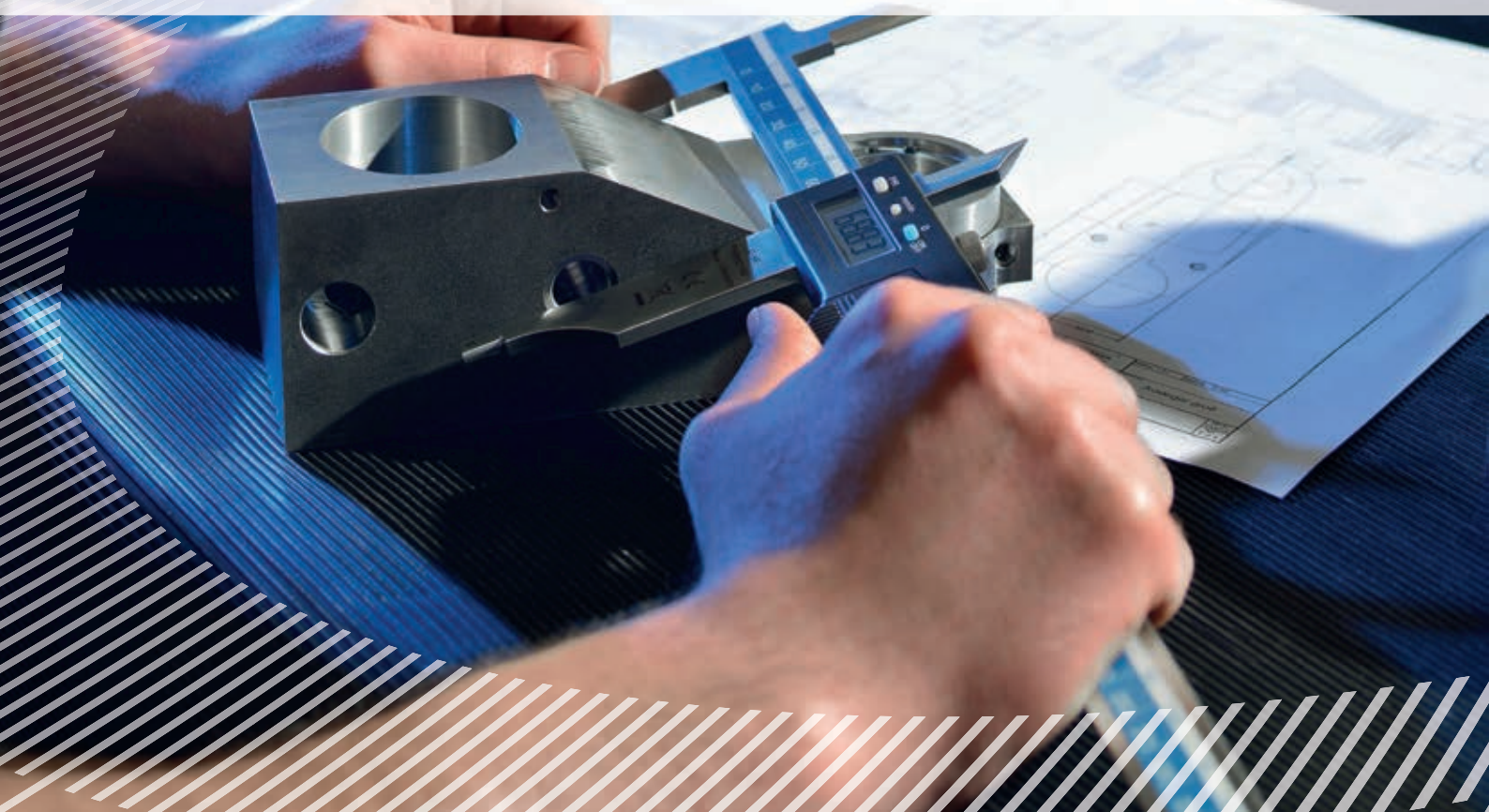
	Calipers	1
	Micrometers	2
	Dial gauges and Indicating instruments	3
	Marking instruments	4
	Squares, Protractors, Bevel protractors	5
	Inspection equipment, Standards, Rules	6
	Data transmission	7
	Calibration service, Order number index, Keyword index	8



QUALITY IN ACTION

Those who purchase the high quality HELIOS•PREISSER brand combine exceptional Know-how with high durability. Then when highly precise measurements are required; HELIOS•PREISSER the medium sized company from Gammertingen with our wide range of premium products is at the top of the list. With over 120 employees who are working for you on a daily basis at our production site in the idyllic Swabian Alb, the most up to date technology and our many decades of experience we believe that these are the foundations in meeting your demands and requirements.

Therefore; to maintain these high quality standards, our "Made-in-Germany-Philosophy" comprises of continuous training, targeted support and encouragement of trainees and a detailed quality management system – whether Research and Development, Production, Purchasing, Marketing or Sales these all confirm to the strict requirements of DIN EN ISO 9001.



CHAPTER 1 **CALIPERS**



Pocket vernier calipers	1/2
Measuring tool sets	1/8
Dial calipers	1/9
Digital pocket calipers	1/10
Pocket calipers for specific measuring tasks	1/15
Workshop calipers	1/21
Workshop dial calipers / Lightweight workshop calipers	1/28
Caliper with cross points / Caliper with gripper points	1/29
Digital workshop calipers	1/30
Digital lightweight workshop calipers	1/38
Digital caliper with cross points / gripper points	1/39
Digital universal calipers	1/40
Contraction vernier calipers	1/42
Calipers for external locking grooves	1/44
Brake drum vernier calipers / Brake disc inspection gauges	1/45
Calipers for internal grooves	1/46
Calipers for 3/5 point measurement	1/47
Chamfer / Radius gauge	1/47
Gear tooth calipers	1/48
Vernier depth gauges	1/49
Contraction vernier depth gauges	1/52
Digital depth gauges	1/54
Digital depth gauges with interchangeable inserts	1/64
Digital depth gauges for one-handed operation	1/68
Digital mounting scales	1/69
Wooden cases	1/70



0184 / 0185 Pocket vernier calipers



Specification

- Stainless steel
- Reading parts have a satin chrome finish
- DIN 862
- Inside cross points
- Low-set master scale
- Four way measurement
- Includes thread table

Shipment

- Imitation leather case



DIN
862

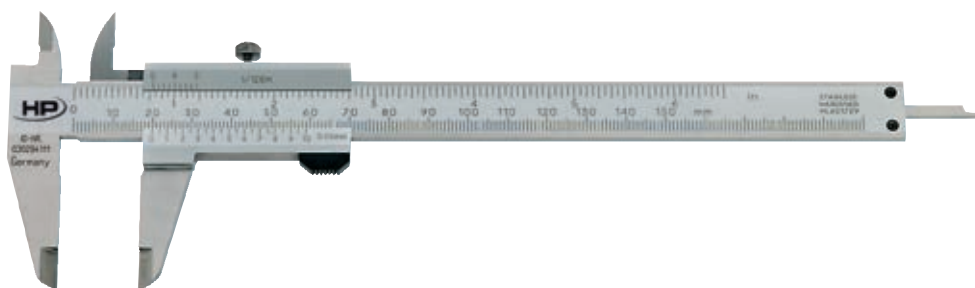





0184 501



0184 505

			Measuring range		Jaw length		Reading		Depth gauge	Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch			
With thumb clamp											
▪			150	6	40	1.57	0.05	1/128	rectangular	0184 501	22.50
▪			200	8	40	1.57	0.05	1/128	rectangular	0184 505	29.20



			Measuring range		Jaw length		Reading		Depth gauge	Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch			
With locking screw											
▪			150	6	40	1.57	0.05	1/128	rectangular	0185 501	22.50



0188 / 0189 Pocket vernier calipers

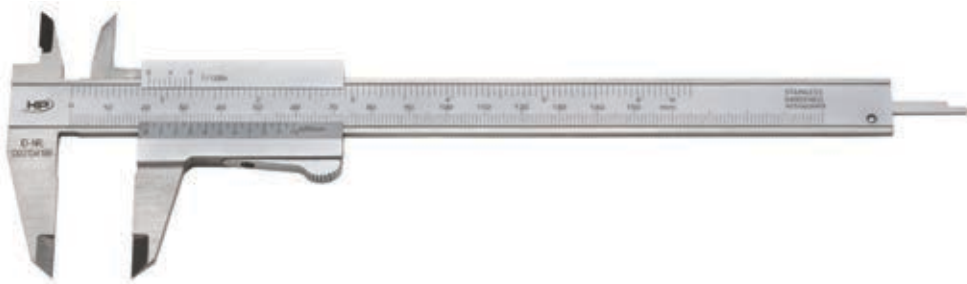
Specification

- Stainless steel
- Reading parts have a satin chrome finish
- DIN 862
- Inside cross points
- Low-set master scale
- Four way measurement
- Includes thread table

Shipment

- Imitation leather case

**DIN
862**



			Measuring range		Jaw length		Reading		Depth gauge	Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch			
With thumb clamp											
▪			150	6	40	1.57	0.05	1/128	rectangular	0188 501	19.50



			Measuring range		Jaw length		Reading		Depth gauge	Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch			
With locking screw											
▪			150	6	40	1.57	0.05	1/128	rectangular	0189 501	19.50



0194 / 0195 Pocket vernier calipers with round depth rod

HP




Specification

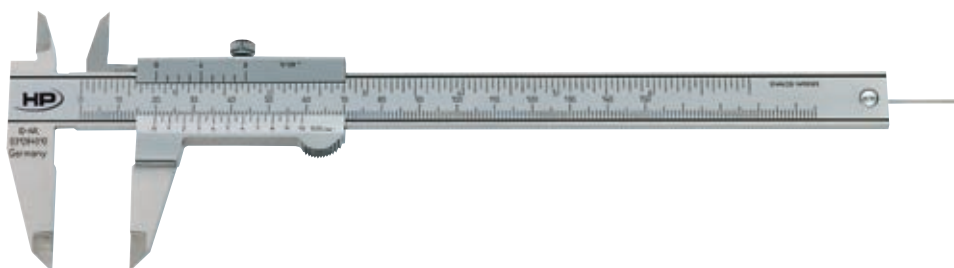
- Stainless steel
- Reading parts have a satin chrome finish
- DIN 862
- Inside cross points
- Low-set master scale
- Four way measurement
- Includes thread table




Shipment

- Imitation leather case

**DIN
862**

			Measuring range		Jaw length		Reading		Depth gauge	Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch			
With thumb clamp											
▪			150	6	40	1.57	0.05	1/128	Ø 1.8 mm	0194 501	23.60



			Measuring range		Jaw length		Reading		Depth gauge	Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch			
With locking screw											
▪			150	6	40	1.57	0.05	1/128	Ø 1.8 mm	0195 501	23.60



0196 Pocket vernier calipers with reading 0.02 mm

Specification

- Stainless steel
- Reading parts have a satin chrome finish
- DIN 862
- Inside cross points
- Main intervals are located deeper
- Four way measurement
- Includes thread table

Shipment

- Imitation leather case

DIN
862



			Measuring range		Jaw length		Reading		Depth gauge	Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch			
With thumb clamp	▪		150	6	40	1.57	0.02	-	rectangular	0196 501 05	22.50



			Measuring range		Jaw length		Reading		Depth gauge	Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch			
With locking screw	▪		150	6	40	1.57	0.02	1/1000	rectangular	0196 501 16	22.50



			Measuring range		Jaw length		Reading		Depth gauge	Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch			
With locking screw	▪		200	8	40	1.57	0.02	1/1000	round	0196 505 16	32.30



0198 / 0199 Pocket vernier calipers with parallax-free reading

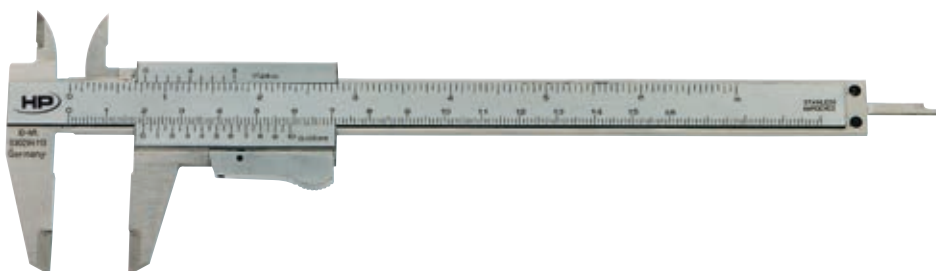
HP




Specification

- Parallax-free reading
- Stainless steel
- Reading parts have a satin chrome finish
- DIN 862
- Inside cross points
- Four way measurement
- Includes thread table




Shipment

- Plastic case

**DIN
862**

			Measuring range		Jaw length		Reading		Depth gauge	Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch			
With thumb clamp											
▪			150	6	40	1.57	0.05	1/128	rectangular	0198 501	27.20



			Measuring range		Jaw length		Reading		Depth gauge	Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch			
With low-set locking screw											
▪			150	6	40	1.57	0.05	1/128	rectangular	0199 501	27.20

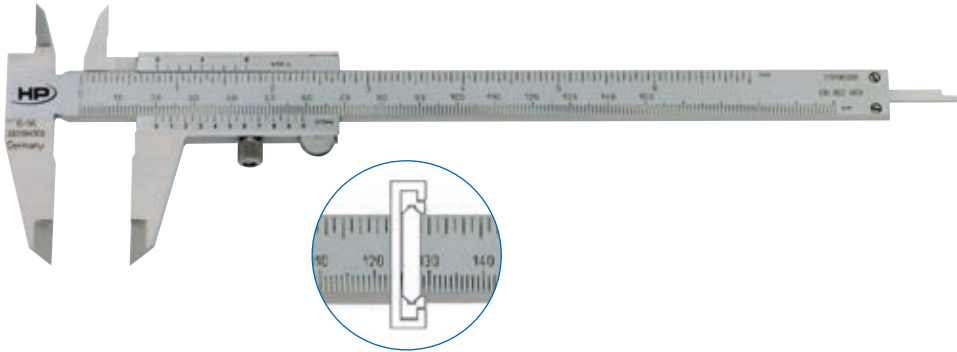




0203 Precision pocket vernier caliper PRISMA

HP

DIN
862



Specification

- Parallax-free reading
- Double prisma guide with excellent sliding characteristics
- Stainless steel
- Reading parts have a satin chrome finish
- DIN 862
- Low-set locking screw
- Inside cross points
- Four way measurement
- Includes thread table

Shipment

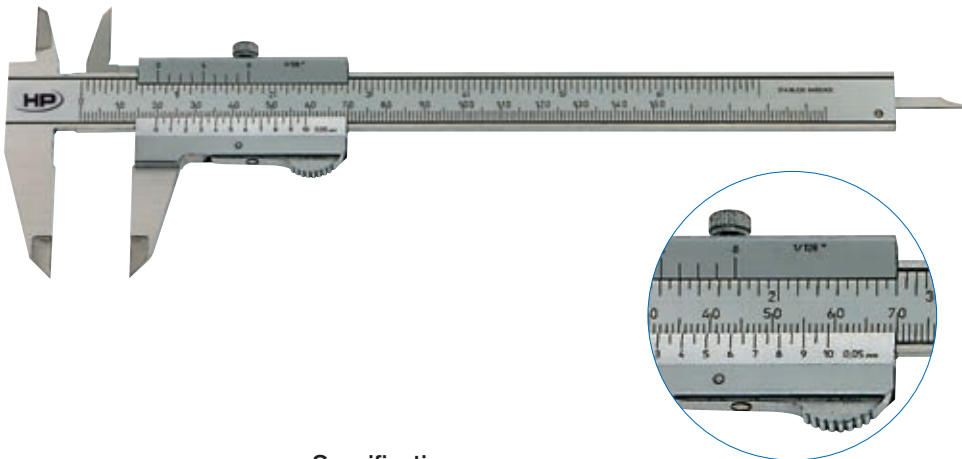
- Imitation leather case

			Measuring range		Jaw length		Reading		Depth gauge	Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch			
▪			150	6	40	1.57	0.05	1/128	rectangular	0203 501	45.10

0190 Pocket vernier caliper DUO - FIX

HP

DIN
862



Locking screw
+ Thumb clamp
= DUO - FIX

Specification

- Stainless steel
- Reading parts have a satin chrome finish
- DIN 862
- Thumb clamp **and** locking screw
- Inside cross points
- Low-set master scale
- Four way measurement
- Includes thread table

Shipment

- Imitation leather case

			Measuring range		Jaw length		Reading		Depth gauge	Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch			
▪			150	6	40	1.57	0.05	1/128	rectangular	0190 501	23.60



0212 Measuring tool set, 8 piece

HP

Set 0212 501 consists of:

- Pocket vernier caliper: 150 mm
- Micrometer: 0-25 mm
- Flexible steel rule: 200 mm
- Knife-edge square: 100 x 70 mm, DIN 875/00
- Knife-edge straight edge: 100 mm
- Dividers: 125 mm
- Scriber: 175 mm
- Centre punch: 100 mm

Shipment

- Wooden case

				Ref. No.	List price Euro
▪				0212 501	99.00

0206 Measuring tool set, 2 piece

HP

Set 0206 510 consists of:

- Pocket vernier caliper: 150 mm
reading: 0.05 mm
Ref. No. 0185 501
- Micrometer: 0-25 mm
reading: 0.01 mm
Ref. No. 0806 521

Set 0206 512 consists of:

- Digital pocket caliper IP67: 150 mm
reading: 0.01 mm
Ref. No. 1226 416
- Micrometer: 0-25 mm
reading: 0.01 mm
Ref. No. 0806 521

Shipment

- Wooden case

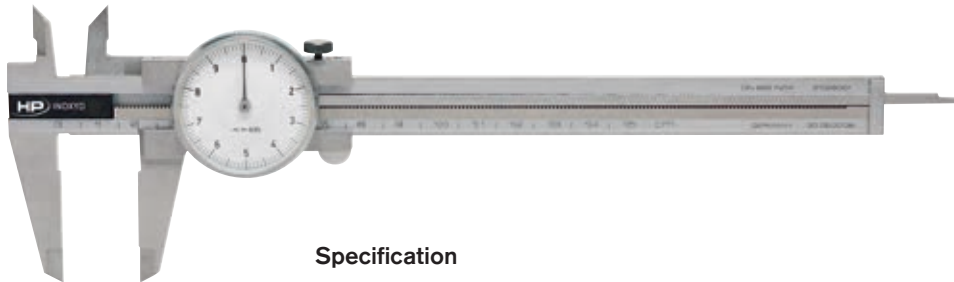
				Ref. No.	List price Euro
▪				0206 510	59.00
▪				0206 512	189.00



0216 Dial calipers

HP

DIN
862



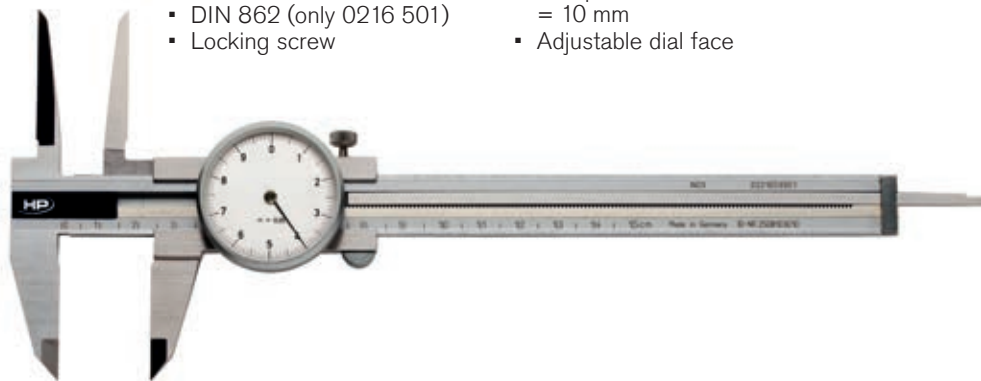
0216 501

Specification

- Stainless steel
- Satin chrome scale
- DIN 862 (only 0216 501)
- Locking screw
- Inside cross points
- One pointer revolution = 10 mm
- Adjustable dial face

Shipment

- Fitted case



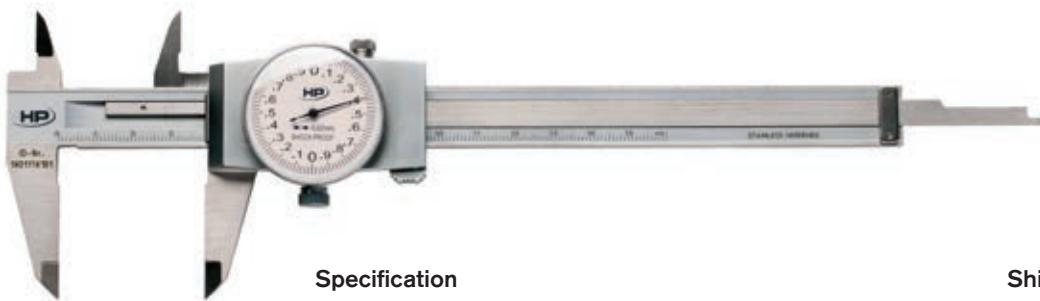
0216 521

			Measuring range		Jaw length		Length of cross points	Reading	Depth gauge	Ref. No.	List price
			mm	inch	mm	inch	mm	mm			Euro
▪			150	6	40	1.57	15	0.05	rectangular	0216 501	78.00
With extra long inside cross points (40 mm) - Factory standard											
▪			150	6	40	1.57	40	0.05	rectangular	0216 521	329.00

0217 / 0218 Dial calipers

HP

DIN
862



Specification

- Stainless steel
- Satin chrome scale
- DIN 862
- Locking screw
- Inside cross points
- One pointer revolution with 0217 = 2 mm
- with 0218 = 1 mm
- Four way measurement

Shipment

- Fitted case

			Measuring range		Jaw length		Reading	Depth gauge	Ref. No.	List price
			mm	inch	mm	inch	mm			Euro
▪	▪		150	6	40	1.57	0.02	rectangular	0217 501	61.00
▪			200	8	40	1.57	0.02	rectangular	0217 502	122.00
▪	▪		150	6	40	1.57	0.01	rectangular	0218 501	82.00



DIGI-MET® QuickStart Electronic



QuickStart-Electronic with the QuickLock-Function for only one zero setting

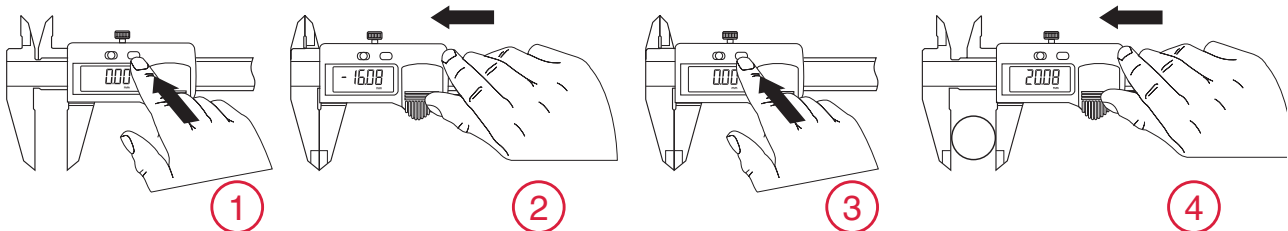


All digital calipers with the **QuickStart-Electronic** also have the **QuickLock** Function. Only set the zero position once, zero position remains stored for all further measurements. When the **QuickLock** Function is activated a lock symbol appears in the display, this ensures that the zero position is protected against any operating error caused by accidental usage of the operating keys (keys are locked). The caliper is immediately ready for measurement; once the caliper is switched ON or the slide is moved, the display is automatically activated.

The need to reset to zero as with a conventional caliper once it is switched on is obsolete.

Conventional

- ① Switch ON
- ② Close the measuring jaws
- ③ Set to zero
- ④ Result of measurement



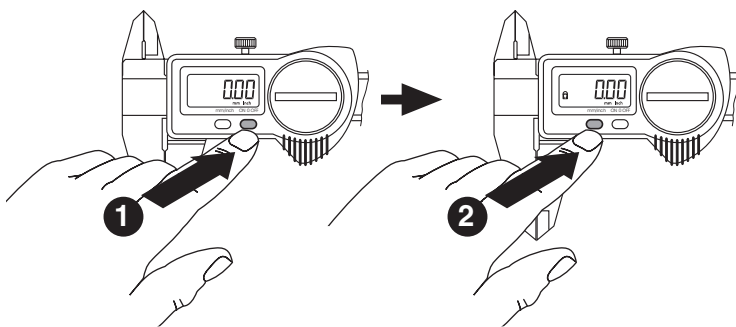
QuickStart Electronic



DIGI-MET® QuickLock Function



1. Set to zero
2. Activate the **QuickLock** Function



Advantages of the QuickLock Function

- The caliper is immediately ready for measurement
- Lock symbol appears in the display. This ensures that the zero position is protected against any operating error caused by accidental usage of the operating keys (keys are locked)



1220 DIGI-MET® Pocket calipers

HP



1220 517



DIN
862



1220 518



Specification




- Inductive measuring system, resistant to damp and sweat
- Stainless steel
- LCD display 7.5 mm
- DIN 862
- Locking screw
- Inside cross points
- Four way measurement with measuring ranges 150 and 200 mm
- Three way measurement with measuring range 300 mm

Electronic functions

- ON/OFF switch
- QuickStart Electronic
- QuickLock Function
- Zero setting at any position
- mm/inch conversion
- Variable data output
RS 232 + Digimatic + USB

Shipment

- Plastic case, 1220 518 = Wooden case

			Measuring range		Jaw length		Reading		Depth gauge	Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch			
Without data output											
▪	▪		150	6	40	1.57	0.01	.0005	Ø 1.5 mm	1220 416	102.00
▪	▪		150	6	40	1.57	0.01	.0005	rectangular	1220 417	102.00
With DATA VARIABLE											
▪	▪		150	6	40	1.57	0.01	.0005	Ø 1.5 mm	1220 516	133.00
▪	▪		150	6	40	1.57	0.01	.0005	rectangular	1220 517	133.00
▪			200	8	50	1.57	0.01	.0005	rectangular	1220 519	167.00
▪			300	12	65	2.34	0.01	.0005	without	1220 522	215.00
With extra long inside cross points (40 mm)											
			150	6	40	1.57	0.01	.0005	Ø 1.5 mm	1220 518	360.00

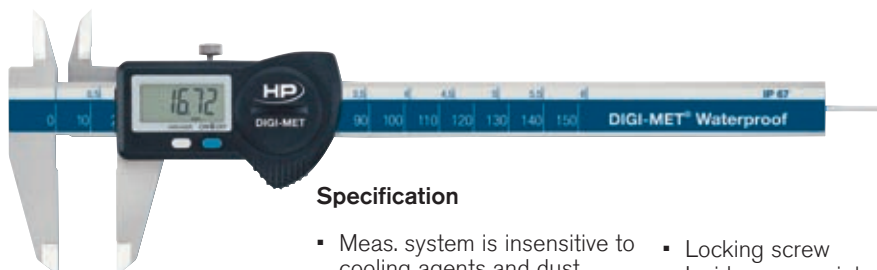
Accessories

	Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable for USB, incl. Software	1998 720	64.00
Cable for RS 232	1997 501	44.90
Cable for Digimatic	1998 501	44.90



1226 DIGI-MET® Pocket calipers IP67

HP



DIN 862

Specification

- Meas. system is insensitive to cooling agents and dust
- Protection class IP 67
- Stainless steel
- LCD display 7.5 mm
- DIN 862
- Housing and operating keys have an excellent chemical resistance
- Locking screw
- Inside cross points
- Four way measurement with measuring ranges 150 and 200 mm
- Three way measurement with measuring range 300 mm

Electronic functions

- ON/OFF switch
- QuickLock Function
- QuickStart Electronic
- Zero setting at any position
- mm/inch conversion

Shipment

Plastic case

			Measuring range		Jaw length		Reading		Depth gauge	Ref. No.	List price
			mm	inch	mm	inch	mm	inch			Euro
■	■		150	6	40	1.57	0.01	.0005	Ø 1.5 mm	1226 416	148.00
■	■		150	6	40	1.57	0.01	.0005	rectangular	1226 417	148.00
■	■		200	8	50	2.00	0.01	.0005	rectangular	1226 418	205.00
■	■		300	12	65	2.50	0.01	.0005	without	1226 422	259.00
With carbide tipped measuring jaws											
			150	6	40	1.57	0.01	.0005	Ø 1.5 mm	1226 914	308.00

Accessories

Battery, 3V-Lithium, CR 2032

Ref. No.

0220 704

List price

3.50

0220 DIGI-MET® Pocket calipers IP65 with data output

HP



DIN 862

Specification

- Protection class IP 65
- Measuring system is insensitive to fluids and cooling agents
- Stainless steel
- LCD display 6 mm
- DIN 862
- Locking screw
- Inside cross points
- Four way measurement

Shipment

- Wooden case

Electronic functions

- ON/OFF switch
- QuickStart Function
- Zero setting at any position
- mm/inch conversion
- Data output Opto RS 232
- Hold Function

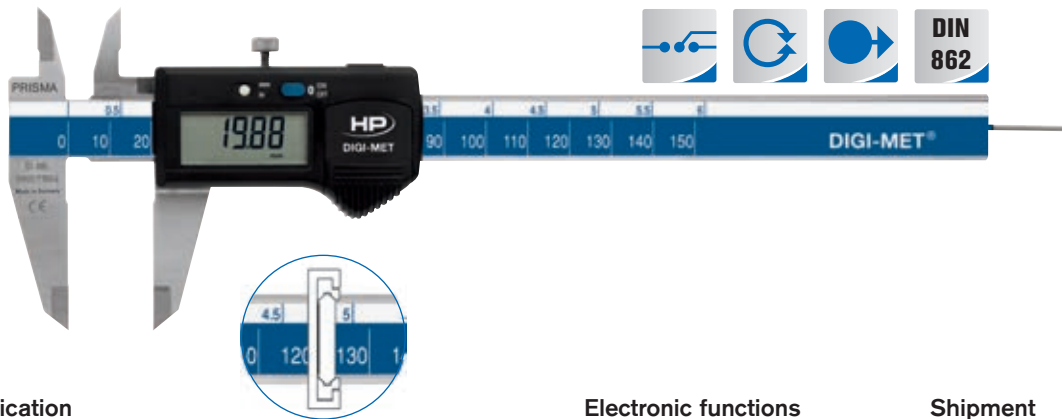
			Measuring range		Jaw length		Reading		Depth gauge	Ref. No.	List price
			mm	inch	mm	inch	mm	inch			Euro
■	■		150	6	40	1.57	0.01	.0005	rectangular	0220 721	148.00
■	■		200	8	40	1.57	0.01	.0005	rectangular	0220 723	216.00
Accessories										Ref. No.	List price
											Euro
Battery, 3V-Lithium, CR 2032										0220 704	3.50
Cable for Opto to RS 232										0996 701	69.00
Cable for Opto to USB										0996 705	132.00
USB-keyboard interface cable Opto RS 232										0997 770	225.00





1222 DIGI-MET® Pocket calipers PRISMA

HP



Specification




- Double prisma guide with excellent sliding characteristics
- Stainless steel
- DIN 862
- LCD display 7.5 mm
- Locking screw
- Inside cross points
- Four way measurement

Electronic functions

- ON/OFF switch
- **QuickStart** Electronic
- **QuickLock** Function
- Zero setting at any position
- mm/inch conversion
- Variable data output RS 232 + Digimatic + USB

Shipment

- Wooden case

			Measuring range		Jaw length		Reading		Depth gauge	Ref. No.	List price
			mm	inch	mm	inch	mm	inch			
Without data output											
▪	▪		150	6	40	1.57	0.01	.0005	Ø 1.5 mm	1222 416	167.00
With DATA VARIABLE											
▪	▪		150	6	40	1.57	0.01	.0005	Ø 1.5 mm	1222 516	172.00

Accessories

	Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable for USB, incl. Software	1998 720	64.00
Cable for RS 232	1997 501	44.90
Cable for Digimatic	1998 501	44.90

Depth attachment base

HP

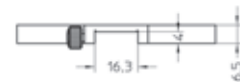


Specification

- Stainless steel
- Suitable for all pocket calipers
- Bridge length: 75 mm
- Dimensions: 75 x 7 mm

Shipment

- Cardboard box



	Ref. No.	List price Euro
Depth attachment base	0220 705	20.10



Connecting cables for DIGI-MET® instruments



1998 720



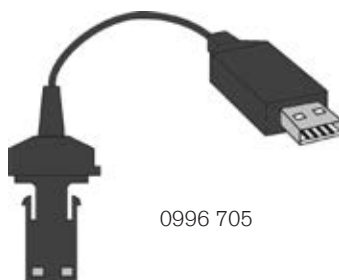
1997 501



1998 501



0996 701



0996 705

Note: detailed information regarding data cables, keyboard interfaces and wireless solutions see pages 7/2 and following

	Ref. No.	List price Euro
Cable for USB incl. Software	1998 720	64.00
Cable for RS 232	1997 501	44.90
Cable for Digimatic	1998 501	44.90
Cable for Opto to RS 232	0996 701	69.00
Cable for Opto to USB	0996 705	132.00

0145 Measuring tool set »Extensions«



Set consists of:

- Pair of measuring inserts with disc, disc dia. 6 / 10 / 12.5 mm
- Pair of measuring inserts with 60° cone, dia. 9 / 12.5 mm
- Pair of measuring inserts with cylindrical surfaces 1.5 mm
- Insert holder, right / left with thread M 2.5*
- Allen wrench $\frac{3}{64}$ " (1.2 mm)

Shipment

- Wooden case

	Ref. No.	List price Euro
Measuring tool set »Extensions«	0145 110	154.00



Measure distances
between bore holes



Measure grooves



Measure distances



Measure distances
between bore holes



Measure grooves

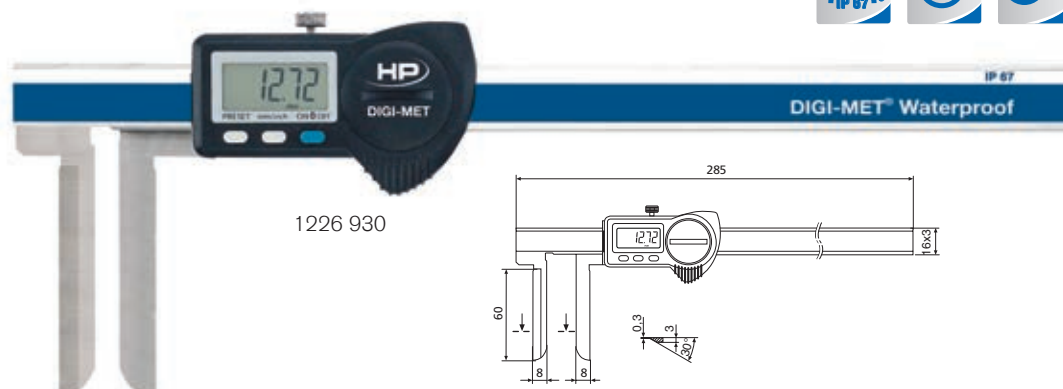
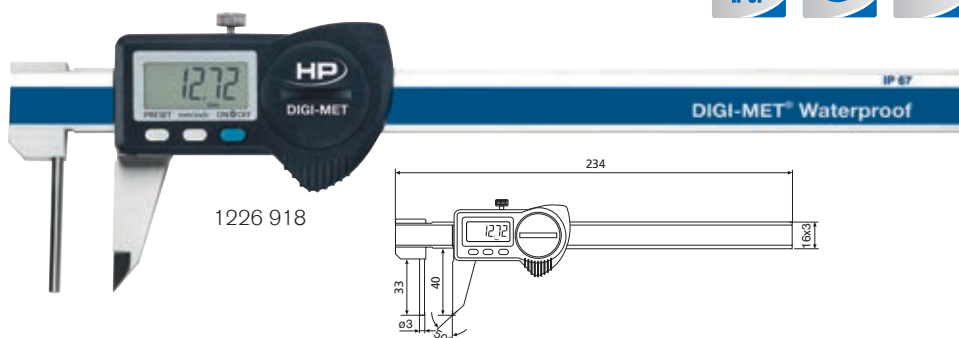
* further inserts see Ref No. 0710 pages 3/14 and following





1226 DIGI-MET® Pocket calipers for specific measuring tasks

HP



Specification




- Protection class IP 67
- Stainless steel
- LCD display 7.5 mm
- Factory standard
- Measuring system is insensitive to cooling agents and dust
- Housing and operating keys have an excellent chemical resistance
- Locking screw

Electronic functions

- ON/OFF switch
- QuickStart Electronic
- QuickLock Function
- Zero setting at any position
- mm/inch conversion
- PRESET Function (setting a numerical value)

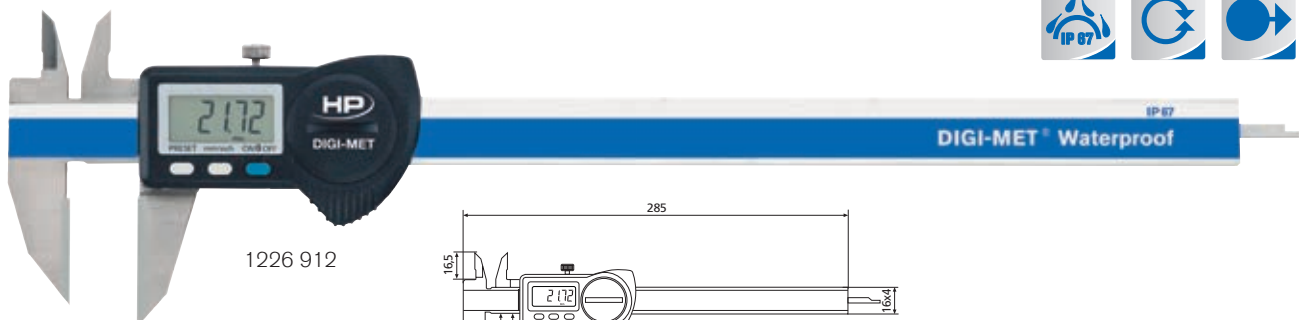
Shipment

- Wooden case

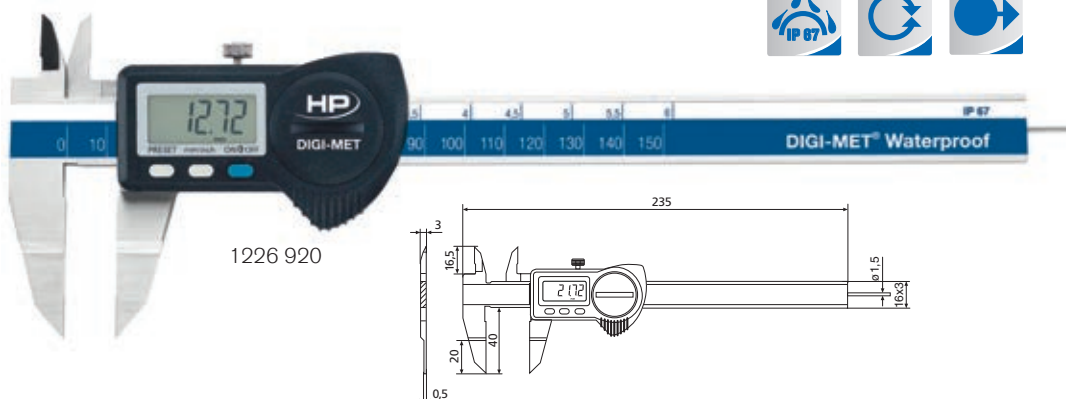
			Measuring range		Jaw length		Reading		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch		
Wall thickness pocket caliper										
▪			0 - 150	0 - 6	40	1.57	0.01	.0005	1226 918	452.00
With long narrow measuring jaws										
▪			10 - 200	4 - 8	60	2.36	0.01	.0005	1226 930	586.00
Accessories									Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032									0220 704	3.50



1226 DIGI-MET® Pocket calipers for specific measuring tasks



1226 912



1226 920



Specification




- Protection class IP 67
- Stainless steel
- LCD display 7.5 mm
- Factory standard
- Measuring system is insensitive to cooling agents and dust
- Housing and operating keys have an excellent chemical resistance
- Locking screw
- Inside cross points

Electronic functions

- ON/OFF switch
- QuickStart Electronic
- QuickLock Function
- Zero setting at any position
- mm/inch conversion
- PRESET Function (setting a numerical value)

Shipment

- Wooden case

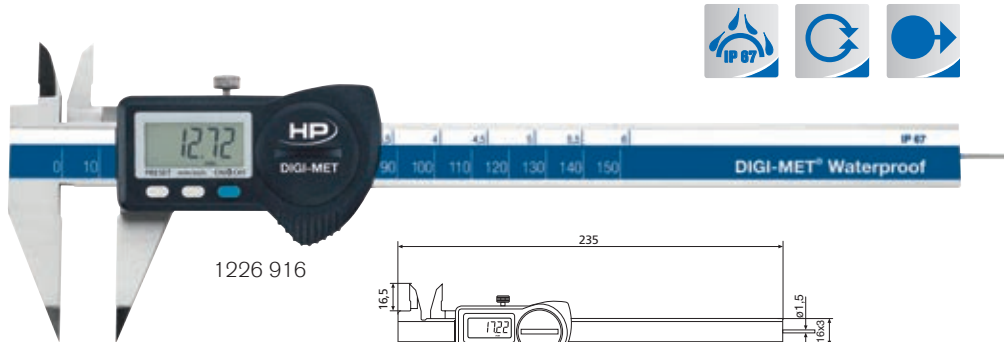
			Measuring range		Jaw length		Reading		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch		
Scribing / marking pocket caliper with carbide tipped measuring faces										
▪			200	8	33 / 40	1.29 / 1.57	0.01	.0005	1226 912	257.00
Blade type pocket caliper										
▪			150	6	40	1.57	0.01	.0005	1226 920	489.00
Accessories									Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032									0220 704	3.50



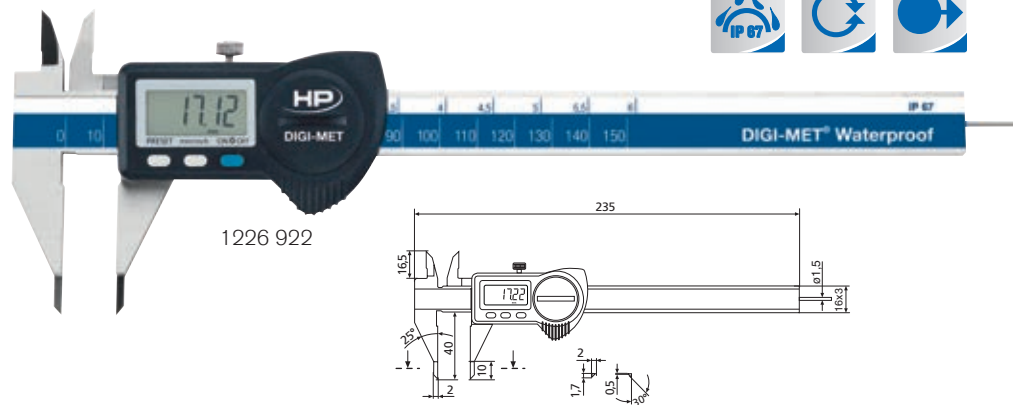


1226 DIGI-MET® Pocket calipers for specific measuring tasks

HP



1226 916



1226 922



Specification




- Protection class IP 67
- Stainless steel
- LCD display 7.5 mm
- Factory standard
- Measuring system is insensitive to cooling agents and dust
- Housing and operating keys have an excellent chemical resistance
- Locking screw
- Inside cross points

Electronic functions

- ON/OFF switch
- QuickStart Electronic
- QuickLock Function
- Zero setting at any position
- mm/inch conversion
- PRESET Function (setting a numerical value)

Shipment

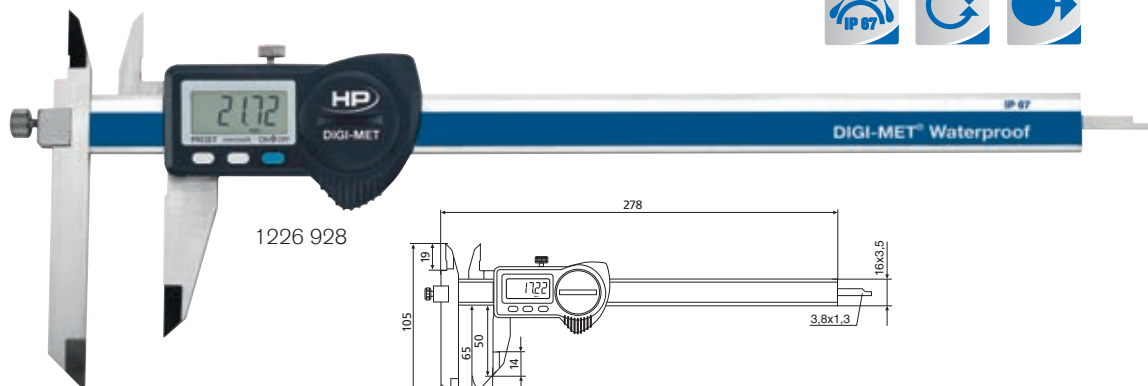
- Wooden case

			Measuring range		Jaw length		Reading		Ref. No.	List price
			mm	inch	mm	inch	mm	inch		
Point type pocket caliper										
▪			150	6	40	1.57	0.01	.0005	1226 916	356.00
Pocket caliper with pointed measuring jaws										
▪			150	6	40	1.57	0.01	.0005	1226 922	401.00
Accessories									Ref. No.	List price
Battery, 3V-Lithium, CR 2032									0220 704	3.50

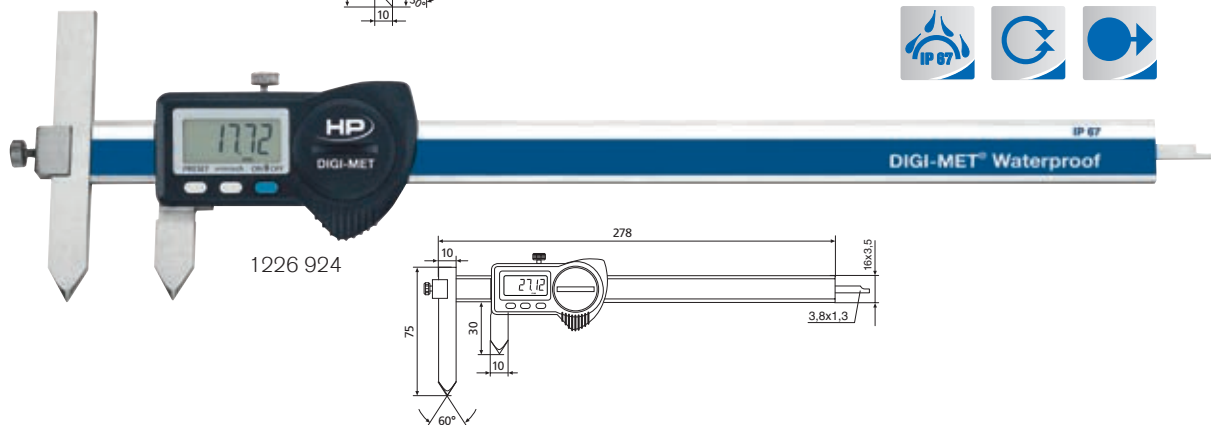
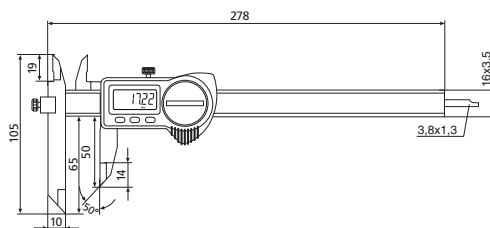


1226 DIGI-MET® Pocket calipers for specific measuring tasks

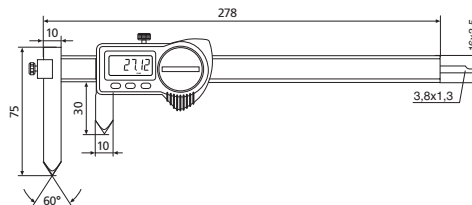
HP



1226 928



1226 924



Specification




- Protection class IP 67
- Stainless steel
- LCD display 7.5 mm
- Factory standard
- Measuring system is insensitive to cooling agents and dust
- Housing and operating keys have an excellent chemical resistance
- Locking screw

Electronic functions

- ON/OFF switch
- QuickStart Electronic
- QuickLock Function
- Zero setting at any position
- mm/inch conversion
- PRESET Function (setting a numerical value)

Shipment

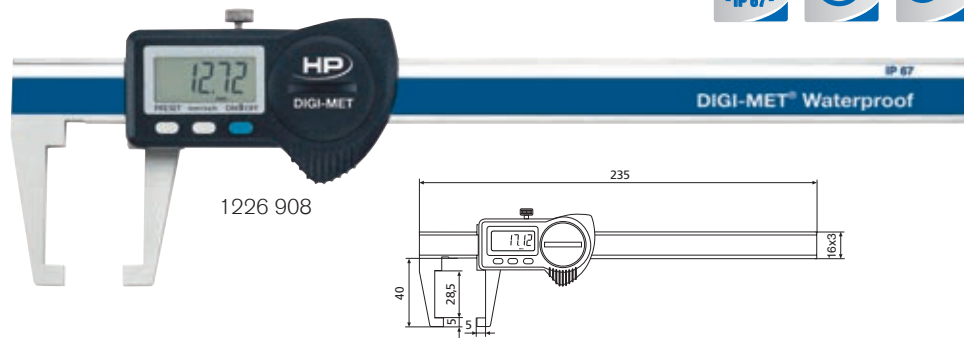
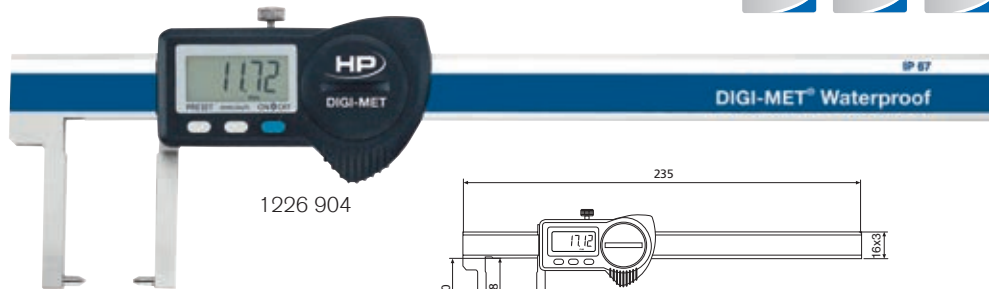
- Wooden case

			Measuring range		Jaw length		Reading		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch		
Offset type pocket caliper with adjustable measuring jaws + inside cross points										
▪			0 - 200	0 - 8	65 / 50	2.55 / 1.96	0.01	.0005	1226 928	428.00
Offset centreline pocket caliper with adjustable measuring jaws ideal for bore hole distance measurement										
▪			10 - 210	.4 - 8.3	75 / 30	2.95 / 1.18	0.01	.0005	1226 924	397.00
Accessories									Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032									0220 704	3.50





1226 DIGI-MET® Pocket calipers for specific measuring tasks



Specification




- Protection class IP 67
- Stainless steel
- LCD display 7.5 mm
- Factory standard
- Measuring system is insensitive to cooling agents and dust
- Housing and operating keys have an excellent chemical resistance
- Locking screw

Electronic functions

- ON/OFF switch
- QuickStart Electronic
- QuickLock Function
- Zero setting at any position
- mm/inch conversion
- PRESET Function (setting a numerical value)

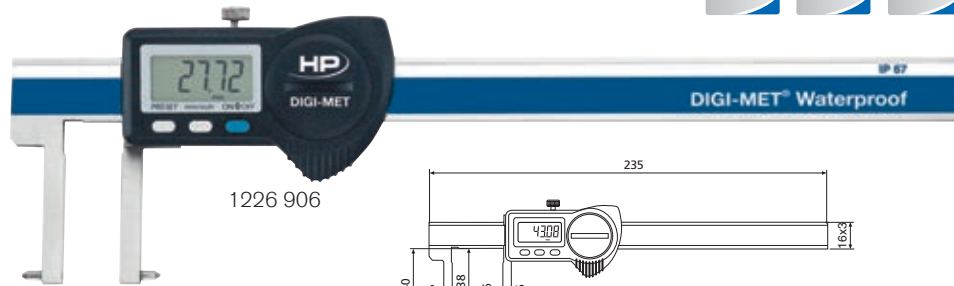
Shipment

- Wooden case

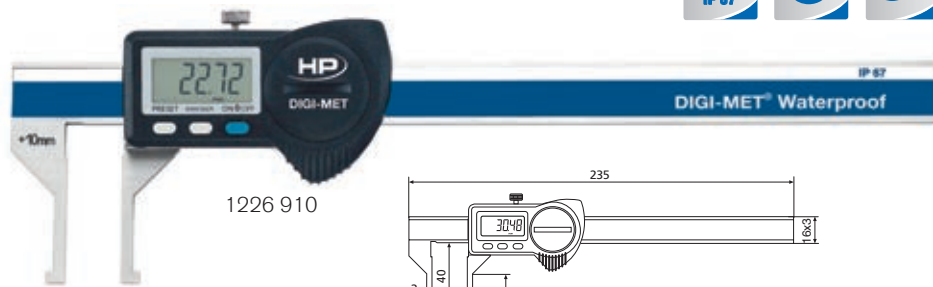
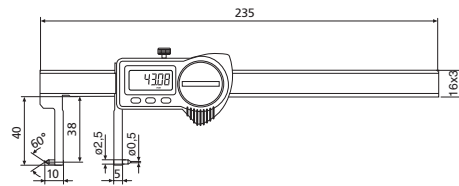
			Measuring range		Jaw length		Reading		Ref. No.	List price
			mm	inch	mm	inch	mm	inch		
Outwardly angled anvils										
▪			150	6	40	1.57	0.01	.0005	1226 904	514.00
Outwardly angled measuring jaws										
▪			150	6	40	1.57	0.01	.0005	1226 908	438.00
Accessories									Ref. No.	List price
Battery, 3V-Lithium, CR 2032									0220 704	3.50



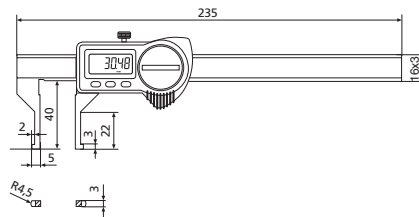
1226 DIGI-MET® Pocket calipers for specific measuring tasks



1226 906



1226 910



Specification




- Protection class IP 67
- Stainless steel
- LCD display 7.5 mm
- Factory standard
- Measuring system is insensitive to cooling agents and dust
- Housing and operating keys have an excellent chemical resistance
- Locking screw

Electronic functions

- ON/OFF switch
- QuickStart Electronic
- QuickLock Function
- Zero setting at any position
- mm/inch conversion
- PRESET Function (setting a numerical value)

Shipment

- Wooden case

			Measuring range		Jaw length		Reading		Ref. No.	List price
			mm	inch	mm	inch	mm	inch		
Inwardly angled anvils										
▪			20 - 170	.8 - 6.7	40	1.57	0.01	.0005	1226 906	510.00
Inwardly angled measuring jaws										
▪			10 - 160	.4 - 6.3	40	1.57	0.01	.0005	1226 910	504.00
Accessories									Ref. No.	List price
Battery, 3V-Lithium, CR 2032									0220 704	Euro 3.50



0230 / 0231 Workshop calipers with parallax-free reading

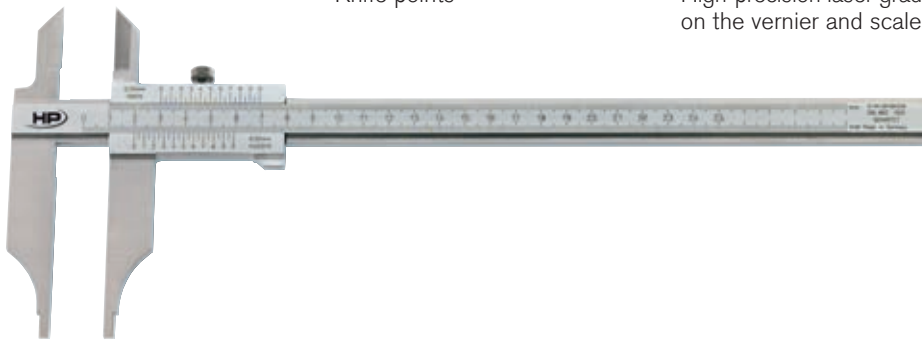
Specification




- **Parallax-free reading**
- Stainless steel
- Reading parts have a satin chrome finish
- DIN 862
- Locking screw
- Knife points
- Stepped jaws for inside measurement: 10 mm, for measuring range 500 mm: 20 mm
- Direct reading of internal and external measurements
- High-precision laser graduation on the vernier and scale

Shipment

- Cardboard box

**DIN
862**



			Measuring range		Jaw length		Reading		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	mm		
Without fine adjustment										
▪	▪		200	8	80	3.0	0.05	0.05	0230 501	122.00
▪	▪		250	10	80	3.0	0.05	0.05	0230 502	143.00
▪	▪		300	12	90	3.5	0.05	0.05	0230 503	158.00
▪			500	20	150	6.0	0.05	0.05	0230 508	458.00



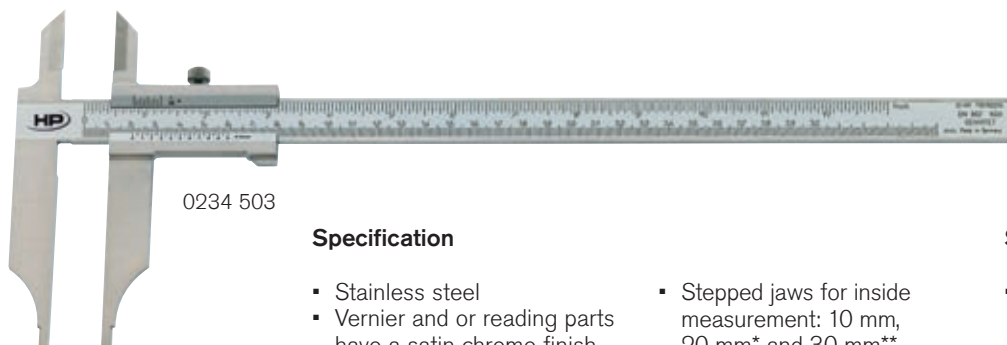
			Measuring range		Jaw length		Reading		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	mm		
With fine adjustment										
▪	▪		200	8	80	3.0	0.05	0.05	0231 501	146.00
▪	▪		250	10	80	3.0	0.05	0.05	0231 502	165.00
▪	▪		300	12	90	3.5	0.05	0.05	0231 503	180.00
▪			500	20	150	6.0	0.05	0.05	0231 508	500.00



0234 Workshop calipers

HP

DIN
862






0234 503

Specification

- Stainless steel
- Vernier and/or reading parts have a satin chrome finish
- DIN 862
- Locking screw
- Stepped jaws for inside measurement: 10 mm, 20 mm* and 30 mm**
- Knife points
- Low-set master scale
- High-precision laser graduation on the vernier and scale

Shipment

- Cardboard box for calipers up to a measuring range 1000 mm, larger measuring ranges are individually packed

			Measuring range		Jaw length		Reading		Ref. No.	List price
			mm	inch	mm	inch	mm	inch		Euro
Vernier satin chrome plated:										
▪	▪		200	8	80	3.0	0.05	1/128	0234 201	98.00
▪	▪		250	10	80	3.0	0.05	1/128	0234 202	120.00
▪	▪		300	12	90	3.5	0.05	1/128	0234 203	128.00
▪	▪		400	16	125	5.0	0.05		0234 205*	300.00
▪	▪		500	20	150	6.0	0.05		0234 208*	376.00
▪	▪		600	24	150	6.0	0.05		0234 211*	439.00
▪	▪		800	31	150	6.0	0.05		0234 214*	500.00
▪	▪		1000	39	150	6.0	0.05		0234 218*	607.00
▪		▪	1250	49	200	8.0	0.05		0234 222**	971.00
▪		▪	1500	59	200	8.0	0.05		0234 224**	1,256.00
▪		▪	2000	79	200	8.0	0.05		0234 226**	1,833.00
Vernier + scale satin chrome plated:										
▪	▪		200	8	80	3.0	0.05	1/128	0234 501	110.00
▪	▪		250	10	80	3.0	0.05	1/128	0234 502	134.00
▪	▪		300	12	90	3.5	0.05	1/128	0234 503	147.00
▪	▪		400	16	125	5.0	0.05		0234 505*	340.00
▪	▪		500	20	150	6.0	0.05		0234 508*	438.00
▪	▪		600	24	150	6.0	0.05		0234 511*	498.00
▪	▪		800	31	150	6.0	0.05		0234 514*	564.00
▪	▪		1000	39	150	6.0	0.05		0234 518*	677.00
▪		▪	1250	49	200	8.0	0.05		0234 522**	1,106.00
▪		▪	1500	59	200	8.0	0.05		0234 524**	1,423.00
▪		▪	2000	79	200	8.0	0.05		0234 526**	2,083.00

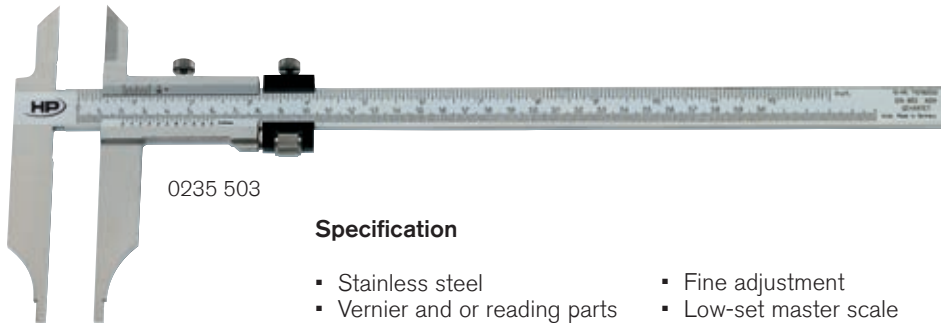




0235 Workshop calipers

HP

DIN
862






0235 503

Specification

- Stainless steel
- Vernier and or reading parts have a satin chrome finish
- DIN 862
- Locking screw
- Knife points
- Fine adjustment
- Low-set master scale
- Stepped jaws for inside measurement: 10 mm, 20 mm* and 30 mm**
- High-precision laser graduation on the vernier and scale

Shipment

- Cardboard box for calipers up to a meas. range 1000 mm, larger measuring ranges are individually packed

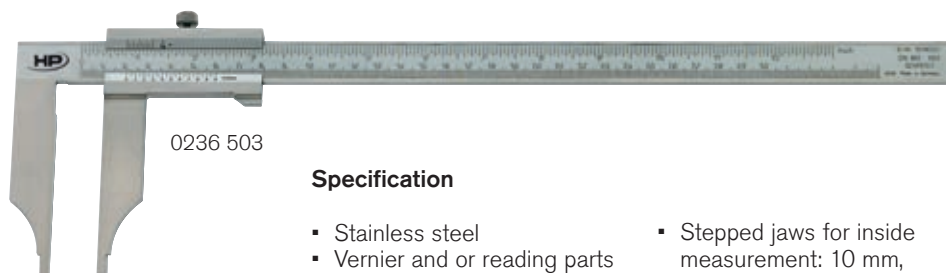
			Measuring range		Jaw length		Reading		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch		
Vernier satin chrome plated:										
▪	▪		200	8	80	3.0	0.05	1/128	0235 201	123.00
▪	▪		250	10	80	3.0	0.05	1/128	0235 202	143.00
▪	▪		300	12	90	3.5	0.05	1/128	0235 203	151.00
▪	▪		400	16	125	5.0	0.05		0235 205*	347.00
▪	▪		500	20	150	6.0	0.05		0235 208*	423.00
▪	▪		600	24	150	6.0	0.05		0235 211*	485.00
▪	▪		800	31	150	6.0	0.05		0235 214*	556.00
▪	▪		1000	39	150	6.0	0.05		0235 218*	647.00
▪		▪	1250	49	200	8.0	0.05		0235 222**	1,062.00
▪		▪	1500	59	200	8.0	0.05		0235 224**	1,342.00
▪		▪	2000	79	200	8.0	0.05		0235 226**	1,982.00
Vernier + scale satin chrome plated:										
▪	▪		200	8	80	3.0	0.05	1/128	0235 501	132.00
▪	▪		250	10	80	3.0	0.05	1/128	0235 502	158.00
▪	▪		300	12	90	3.5	0.05	1/128	0235 503	169.00
▪	▪		400	16	125	5.0	0.05		0235 505*	386.00
▪	▪		500	20	150	6.0	0.05		0235 508*	474.00
▪	▪		600	24	150	6.0	0.05		0235 511*	539.00
▪	▪		800	31	150	6.0	0.05		0235 514*	621.00
▪	▪		1000	39	150	6.0	0.05		0235 518*	734.00
▪		▪	1250	49	200	8.0	0.05		0235 522**	1,186.00
▪		▪	1500	59	200	8.0	0.05		0235 524**	1,508.00
▪		▪	2000	79	200	8.0	0.05		0235 526**	2,223.00



0236 Workshop calipers

HP

DIN
862






0236 503

Specification

- Stainless steel
- Vernier and/or reading parts have a satin chrome finish
- DIN 862
- Locking screw
- Low-set master scale
- Stepped jaws for inside measurement: 10 mm, 20 mm*, 30 mm** and 50 mm (0236 230)
- High-precision laser graduation on the vernier and scale

Shipment

- Cardboard box for calipers up to a measuring range 1000 mm, larger measuring ranges are individually packed

			Measuring range		Jaw length		Reading		Ref. No.	List price
			mm	inch	mm	inch	mm	inch		Euro
Vernier satin chrome plated:										
▪	▪		200	8	80	3.0	0.05	1/128	0236 201	85.00
▪	▪		250	10	80	3.0	0.05	1/128	0236 202	103.00
▪	▪		300	12	90	3.5	0.05	1/128	0236 203	116.00
▪	▪		400	16	125	5.0	0.05		0236 205*	237.00
▪	▪		500	20	150	6.0	0.05		0236 208*	313.00
▪	▪		600	24	150	6.0	0.05		0236 211*	375.00
▪	▪		800	31	150	6.0	0.05		0236 214*	400.00
▪	▪		1000	39	150	6.0	0.05		0236 218*	500.00
▪		▪	1250	49	200	8.0	0.05		0236 222**	775.00
▪		▪	1500	59	200	8.0	0.05		0236 224**	1,056.00
▪		▪	2000	79	200	8.0	0.05		0236 226**	1,456.00
▪		▪	3000***	118	200	8.0	0.05		0236 230	2,407.00
Vernier + scale satin chrome plated:										
▪	▪		200	8	80	3.0	0.05	1/128	0236 501	96.00
▪	▪		250	10	80	3.0	0.05	1/128	0236 502	121.00
▪	▪		300	12	90	3.5	0.05	1/128	0236 503	131.00
▪	▪		400	16	125	5.0	0.05		0236 505*	278.00
▪	▪		500	20	150	6.0	0.05		0236 508*	365.00
▪	▪		600	24	150	6.0	0.05		0236 511*	436.00
▪	▪		800	31	150	6.0	0.05		0236 514*	453.00
▪	▪		1000	39	150	6.0	0.05		0236 518*	565.00
▪		▪	1250	49	200	8.0	0.05		0236 522**	928.00
▪		▪	1500	59	200	8.0	0.05		0236 524**	1,245.00
▪		▪	2000	79	200	8.0	0.05		0236 526**	1,877.00

*** = Factory standard





0236 Workshop calipers with extra long measuring jaws






0236 504

Specification

- Stainless steel
- Vernier and or reading parts have a satin chrome finish
- Factory standard
- Locking screw
- Without knife points
- Without fine adjustment
- Low-set master scale
- High-precision laser graduation on the vernier and scale
- Stepped jaws for inside measurement: 10 mm, 20 mm*, 30 mm** and 50 mm (0236 231)

Shipment

- Cardboard box for calipers up to a meas. range 1000 mm, larger measuring ranges are individually packed

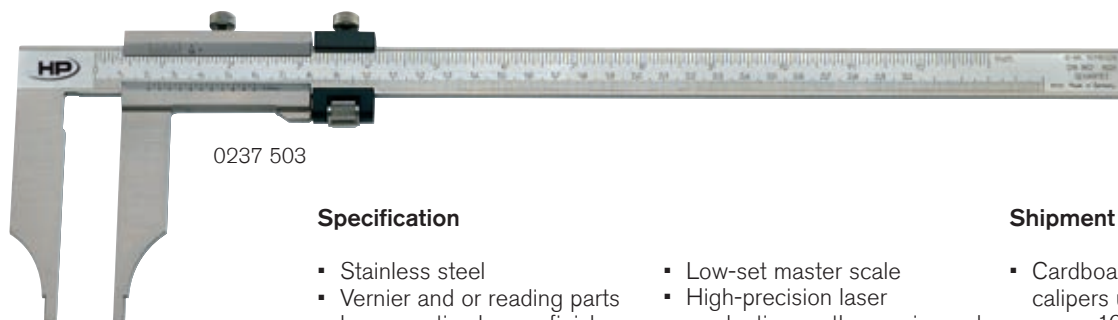
			Measuring range		Jaw length		Reading		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch		
Vernier satin chrome plated:										
			300	12	150	6.0	0.05	1/128	0236 204	215.00
			400	16	150	5.0	0.05		0236 206*	306.00
			400	16	200	8.0	0.05		0236 207*	373.00
			500	20	200	8.0	0.05		0236 209*	415.00
			500	20	250	10.0	0.05		0236 210*	500.00
			600	24	200	8.0	0.05		0236 212*	521.00
			600	24	300	12.0	0.05		0236 213*	640.00
			800	31	200	8.0	0.05		0236 215*	603.00
			800	31	300	12.0	0.05		0236 216*	771.00
			800	31	400	16.0	0.05		0236 217*	895.00
			1000	39	200	8.0	0.05		0236 219*	740.00
			1000	39	300	12.0	0.05		0236 220*	826.00
			1000	39	500	20.0	0.05		0236 221*	1,245.00
		▪	1500	59	300	12.0	0.05		0236 225**	1,277.00
		▪	2000	79	300	12.0	0.05		0236 227**	1,776.00
		▪	3000	118	300	12.0	0.05		0236 231	2,936.00
Vernier + scale satin chrome plated:										
			300	12	150	6.0	0.05	1/128	0236 504	232.00
			400	16	150	6.0	0.05		0236 506*	357.00
			400	16	200	8.0	0.05		0236 507*	433.00
			500	20	200	8.0	0.05		0236 509*	481.00
			500	20	250	10.0	0.05		0236 510*	574.00
			600	24	200	8.0	0.05		0236 512*	543.00
			600	24	300	12.0	0.05		0236 513*	707.00
			800	31	200	8.0	0.05		0236 515*	700.00
			800	31	300	12.0	0.05		0236 516*	892.00
			800	31	400	16.0	0.05		0236 517*	1,047.00
			1000	39	200	8.0	0.05		0236 519*	858.00
			1000	39	300	12.0	0.05		0236 520*	1,083.00
			1000	39	500	20.0	0.05		0236 521*	1,479.00
		▪	1500	59	300	12.0	0.05		0236 525**	1,519.00
		▪	2000	79	300	12.0	0.05		0236 527**	2,250.00



0237 Workshop calipers

HP

DIN
862






0237 503

Specification

- Stainless steel
- Vernier and/or reading parts have a satin chrome finish
- DIN 862
- Locking screw
- Fine adjustment
- Low-set master scale
- High-precision laser graduation on the vernier and scale
- Stepped jaws for inside measurement: 10 mm, 20 mm*, 30 mm** and 50 mm (0237 230)

Shipment

- Cardboard box for calipers up to a measuring range 1000 mm, larger measuring ranges are individually packed

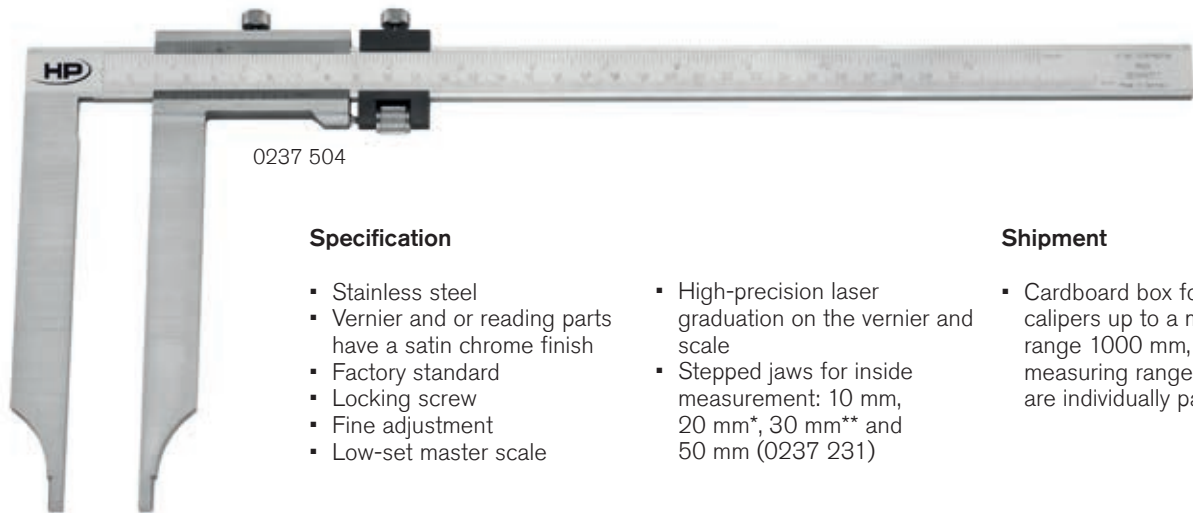
			Measuring range		Jaw length		Reading		Ref. No.	List price
			mm	inch	mm	inch	mm	inch		Euro
Vernier satin chrome plated:										
▪	▪		200	8	80	3.0	0.05	1/128	0237 201	109.00
▪	▪		250	10	80	3.0	0.05	1/128	0237 202	128.00
▪	▪		300	12	90	3.5	0.05	1/128	0237 203	140.00
▪	▪		400	16	125	5.0	0.05		0237 205*	285.00
▪	▪		500	20	150	6.0	0.05		0237 208*	362.00
▪	▪		600	24	150	6.0	0.05		0237 211*	423.00
▪	▪		800	31	150	6.0	0.05		0237 214*	456.00
▪	▪		1000	39	150	6.0	0.05		0237 218*	556.00
▪		▪	1250	49	200	8.0	0.05		0237 222**	862.00
▪		▪	1500	59	200	8.0	0.05		0237 224**	1,145.00
▪		▪	2000	79	200	8.0	0.05		0237 226**	1,600.00
▪		▪	3000***	118	200	8.0	0.05		0237 230	2,616.00
Vernier + scale satin chrome plated:										
▪	▪		200	8	80	3.0	0.05	1/128	0237 501	119.00
▪	▪		250	10	80	3.0	0.05	1/128	0237 502	145.00
▪	▪		300	12	90	3.5	0.05	1/128	0237 503	156.00
▪	▪		400	16	125	5.0	0.05		0237 505*	325.00
▪	▪		500	20	150	6.0	0.05		0237 508*	411.00
▪	▪		600	24	150	6.0	0.05		0237 511*	481.00
▪	▪		800	31	150	6.0	0.05		0237 514*	509.00
▪	▪		1000	39	150	6.0	0.05		0237 518*	622.00
▪		▪	1250	49	200	8.0	0.05		0237 522**	1,013.00
▪		▪	1500	59	200	8.0	0.05		0237 524**	1,332.00
▪		▪	2000	79	200	8.0	0.05		0237 526**	2,018.00

*** = Factory standard





0237 Workshop calipers with extra long measuring jaws






0237 504

Specification

- Stainless steel
- Vernier and or reading parts have a satin chrome finish
- Factory standard
- Locking screw
- Fine adjustment
- Low-set master scale
- High-precision laser graduation on the vernier and scale
- Stepped jaws for inside measurement: 10 mm, 20 mm*, 30 mm** and 50 mm (0237 231)

Shipment

- Cardboard box for calipers up to a meas. range 1000 mm, larger measuring ranges are individually packed

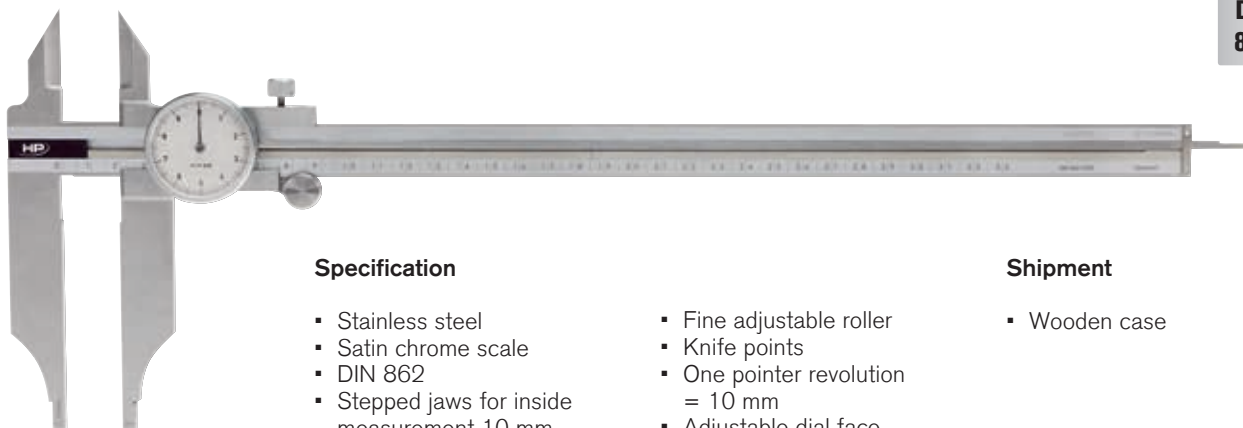
			Measuring range		Jaw length		Reading		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch		
Vernier satin chrome plated:										
			300	12	150	6.0	0.05	1/128	0237 204	238.00
			400	16	150	6.0	0.05		0237 206*	353.00
			400	16	200	8.0	0.05		0237 207*	421.00
			500	20	200	8.0	0.05		0237 209*	464.00
			500	20	250	10.0	0.05		0237 210*	547.00
			600	24	200	8.0	0.05		0237 212*	566.00
			600	24	300	12.0	0.05		0237 213*	688.00
			800	31	200	8.0	0.05		0237 215*	661.00
			800	31	300	12.0	0.05		0237 216*	828.00
			800	31	400	16.0	0.05		0237 217*	953.00
			1000	39	200	8.0	0.05		0237 219*	799.00
			1000	39	300	12.0	0.05		0237 220*	884.00
			1000	39	500	20.0	0.05		0237 221*	1,302.00
		▪	1500	59	300	12.0	0.05		0237 225**	1,365.00
		▪	2000	79	300	12.0	0.05		0237 227**	1,919.00
		▪	3000	118	300	12.0	0.05		0237 231	3,144.00
Vernier + scale satin chrome plated:										
			300	12	150	6.0	0.05	1/128	0237 504	255.00
			400	16	150	6.0	0.05		0237 506*	402.00
			400	16	200	8.0	0.05		0237 507*	479.00
			500	20	200	8.0	0.05		0237 509*	526.00
			500	20	250	10.0	0.05		0237 510*	620.00
			600	24	200	8.0	0.05		0237 512*	633.00
			600	24	300	12.0	0.05		0237 513*	755.00
			800	31	200	8.0	0.05		0237 515*	757.00
			800	31	300	12.0	0.05		0237 516*	947.00
			800	31	400	16.0	0.05		0237 517*	1,105.00
			1000	39	200	8.0	0.05		0237 519*	912.00
			1000	39	300	12.0	0.05		0237 520*	1,139.00
			1000	39	500	20.0	0.05		0237 521*	1,537.00
		▪	1500	59	300	12.0	0.05		0237 525**	1,608.00
		▪	2000	79	300	12.0	0.05		0237 527**	2,391.00



0219 Workshop dial calipers

HP

DIN
862



Specification

- Stainless steel
- Satin chrome scale
- DIN 862
- Stepped jaws for inside measurement 10 mm
- Locking screw
- Fine adjustable roller
- Knife points
- One pointer revolution = 10 mm
- Adjustable dial face

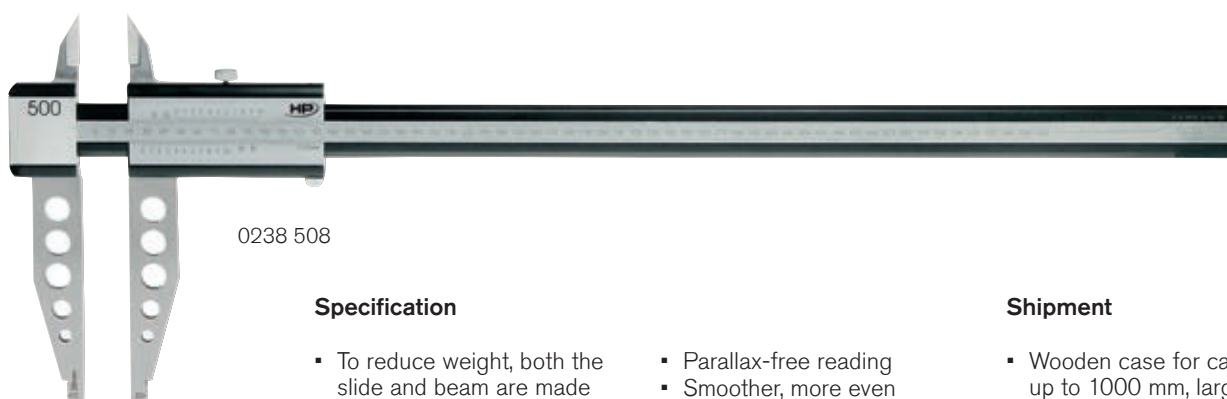
Shipment

- Wooden case

			Measuring range		Jaw length		Reading	Depth gauge	Ref. No.	List price
			mm	inch	mm	inch	mm			Euro
▪			300	12	90	3.5	0.05	rectangular	0219 503	269.00

0238 Lightweight workshop calipers

HP



0238 508

Specification

- To reduce weight, both the slide and beam are made of aluminium, with a hard anodized surface coating (1100 HV)
- Measuring faces are made of hardened stainless steel
- Factory standard
- Parallax-free reading
- Smoother, more even movement due to the double V-guide
- Locking screw
- Knife points
- Stepped jaws for inside measurement 20 mm

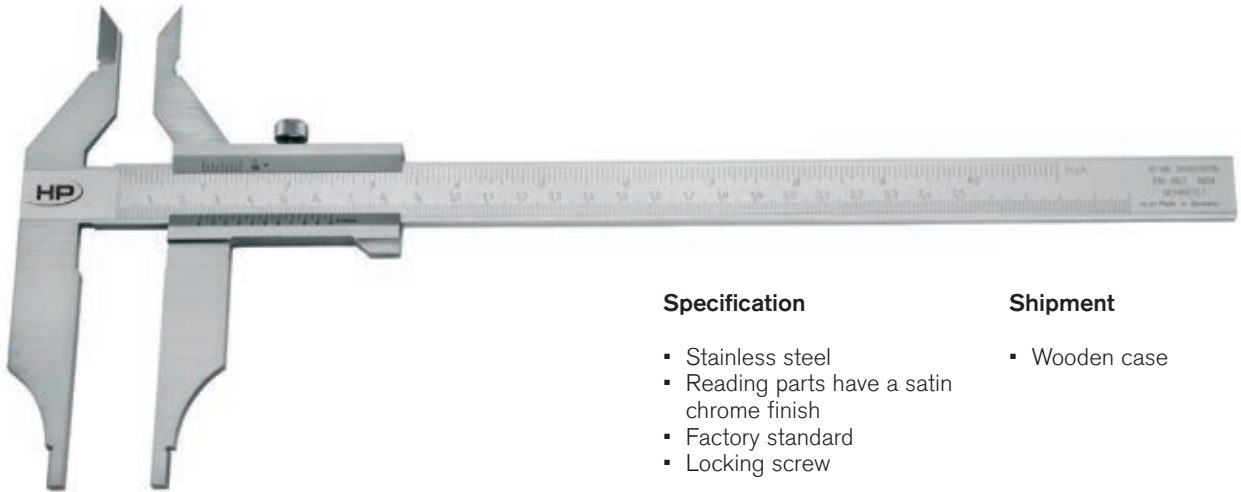
Shipment

- Wooden case for calipers up to 1000 mm, larger measuring ranges caliper is in a cardboard box

			Measuring range		Jaw length		Reading		Ref. No.	List price
			mm	inch	mm	inch	mm	mm		Euro
▪			300	12	90	3,5	0,02	0,02	0238 503	308,00
▪			500	20	150	6,0	0,02	0,02	0238 508	486,00
▪			800	32	150	6,0	0,02	0,02	0238 514	650,00
▪			1000	39	150	6,0	0,02	0,02	0238 518	761,00
	▪		1500	59	200	8,0	0,05	0,05	0238 524	1.974,00
	▪		2000	79	200	8,0	0,05	0,05	0238 526	2.298,00



0265 Caliper with cross points



Specification

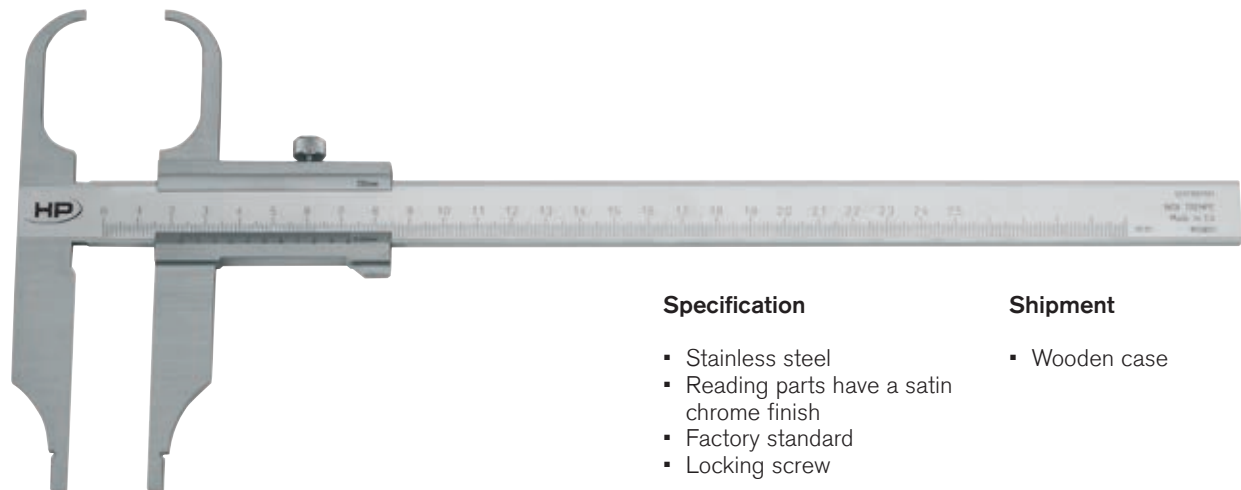
- Stainless steel
- Reading parts have a satin chrome finish
- Factory standard
- Locking screw

Shipment

- Wooden case

			Measuring range		Length of cross points		Reading		Cross section	Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch			
■			250	10	75	3.15	0.02	0.001	20 x 5	0265 52005	242.00

0266 Caliper with gripper points



Specification

- Stainless steel
- Reading parts have a satin chrome finish
- Factory standard
- Locking screw

Shipment

- Wooden case

			Measuring range		Length of gripper points		Reading		Cross section	Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch			
■			250	10	75	3.15	0.02	0.001	20 x 5	0266 52005	325.00



1230 / 1231 DIGI-MET® Workshop calipers



Specification

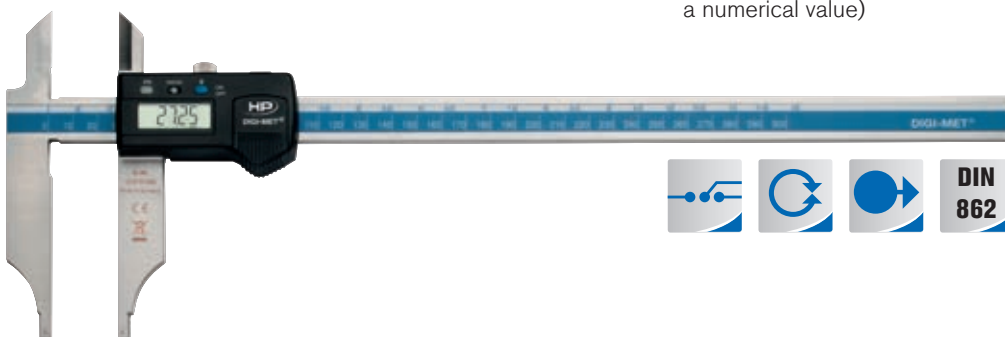
- Stainless steel
- Inductive measuring system, resistant to damp and sweat
- DIN 862
- Knife points
- LCD display: 8.5 mm, with measuring range 300 mm, 12.5 mm from measuring range 500 mm
- Locking screw




Electronic functions

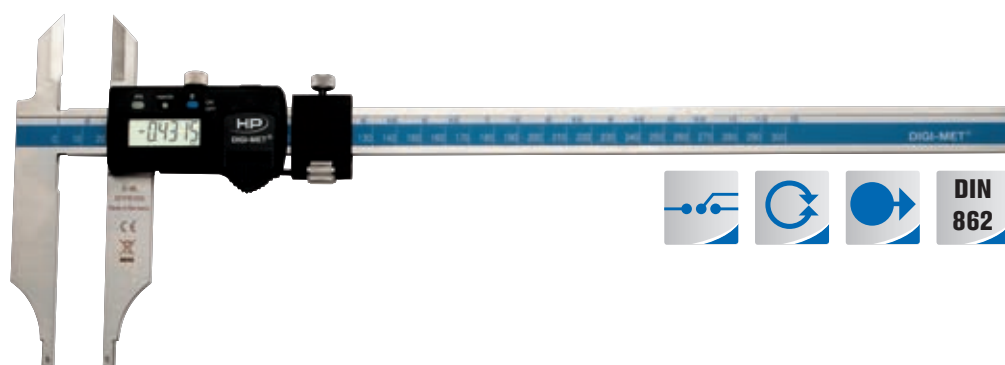
- ON/OFF switch
- QuickStart** Electronic
- QuickLock** Function
- Zero setting at any position
- mm/inch conversion
- Variable data output RS 232 + Digimatic + USB
- PRESET Function (setting a numerical value)




Shipment

- Wooden case



			Measuring range		Jaw length		Reading		Stepped jaws	Ref. No.	List price
			mm	inch	mm	inch	mm	inch	mm	Euro	
Without fine adjustment											
▪	▪		300	12	90	3.5	0.01	.0005	10	1230 522	360.00
▪	▪		500	20	125	5.0	0.01	.0005	20	1230 528	545.00
▪	▪		800	31	150	6.0	0.01	.0005	20	1230 532	890.00
▪	▪		1000	39	150	6.0	0.01	.0005	20	1230 534	1.078.00



			Measuring range		Jaw length		Reading		Stepped jaws	Ref. No.	List price
			mm	inch	mm	inch	mm	inch	mm	Euro	
With fine adjustment											
▪	▪		300	12	90	3.5	0.01	.0005	10	1231 522	414.00
▪	▪		500	20	125	5.0	0.01	.0005	20	1231 528	611.00
▪	▪		800	31	150	6.0	0.01	.0005	20	1231 532	942.00
▪	▪		1000	39	150	6.0	0.01	.0005	20	1231 534	1,083.00

Accessories

	Ref. No.	List price
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable for USB, incl. Software	1998 720	64.00
Cable for RS 232	1997 501	44.90
Cable for Digimatic	1998 501	44.90





1234 / 1235 DIGI-MET® Workshop calipers



Specification

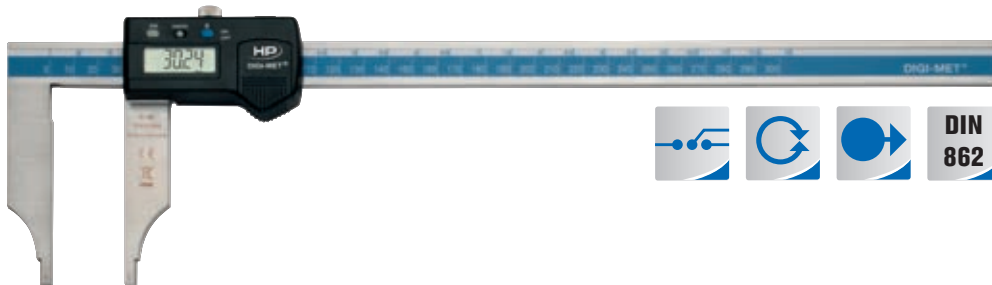
- Stainless steel
- Inductive measuring system, resistant to damp and sweat
- DIN 862
- LCD display: 8.5 mm, with measuring range 300 mm, 12.5 mm from measuring range 500 mm
- Locking screw




Electronic functions

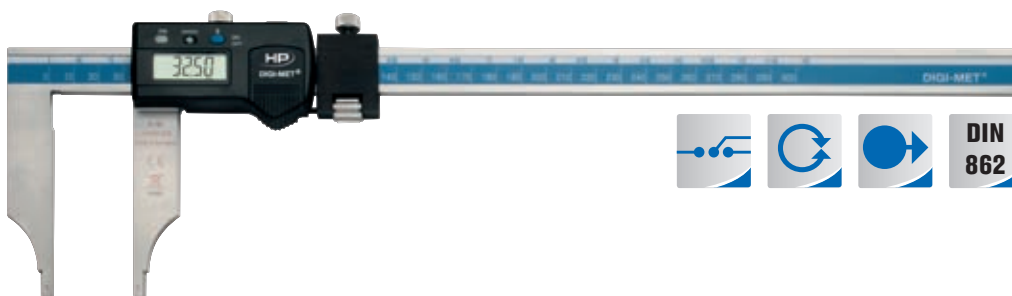
- ON/OFF switch
- QuickStart** Electronic
- QuickLock** Function
- Zero setting at any position
- mm/inch conversion
- Variable data output RS 232 + Digimatic + USB
- PRESET Function (setting a numerical value)




Shipment

- Wooden case



			Measuring range		Jaw length		Reading		Stepped jaws	Ref. No.	List price
			mm	inch	mm	inch	mm	inch	mm	Euro	
Without fine adjustment											
▪	▪		300	12	90	3.5	0.01	.0005	10	1234 522	331.00
▪	▪		500	20	125	5.0	0.01	.0005	20	1234 528	465.00
▪	▪		800	31	150	6.0	0.01	.0005	20	1234 532	812.00
▪	▪		1000	39	150	6.0	0.01	.0005	20	1234 534	961.00



			Measuring range		Jaw length		Reading		Stepped jaws	Ref. No.	List price
			mm	inch	mm	inch	mm	inch	mm	Euro	
With fine adjustment											
▪	▪		300	12	90	3.5	0.01	.0005	10	1235 522	379.00
▪	▪		500	20	125	5.0	0.01	.0005	20	1235 528	535.00
▪	▪		800	31	150	6.0	0.01	.0005	20	1235 532	874.00
▪	▪		1000	39	150	6.0	0.01	.0005	20	1235 534	1,004.00

Accessories

	Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable for USB, incl. Software	1998 720	64.00
Cable for RS 232	1997 501	44.90
Cable for Digimatic	1998 501	44.90



1240 / 1241 DIGI-MET® Workshop calipers IP65

HP

Specification

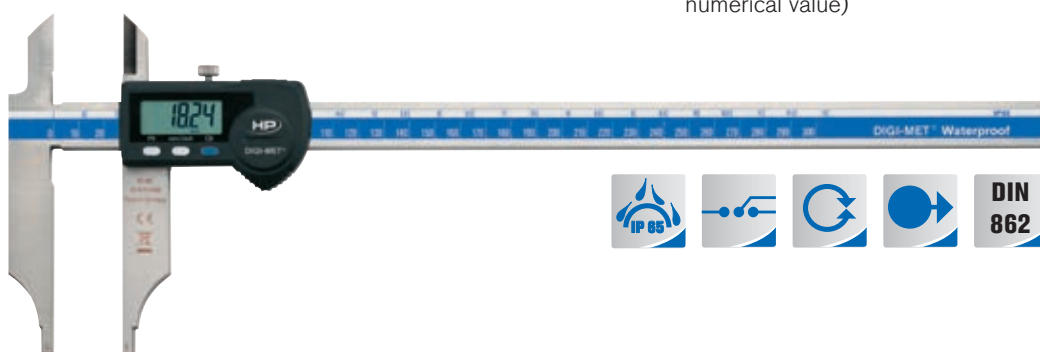
- Stainless steel
- Inductive measuring system, protection class IP65
- DIN 862
- Knife points
- LCD display: 8.5 mm, with measuring range 300 mm, 12.5 mm from measuring range 500 mm
- Locking screw




Electronic functions

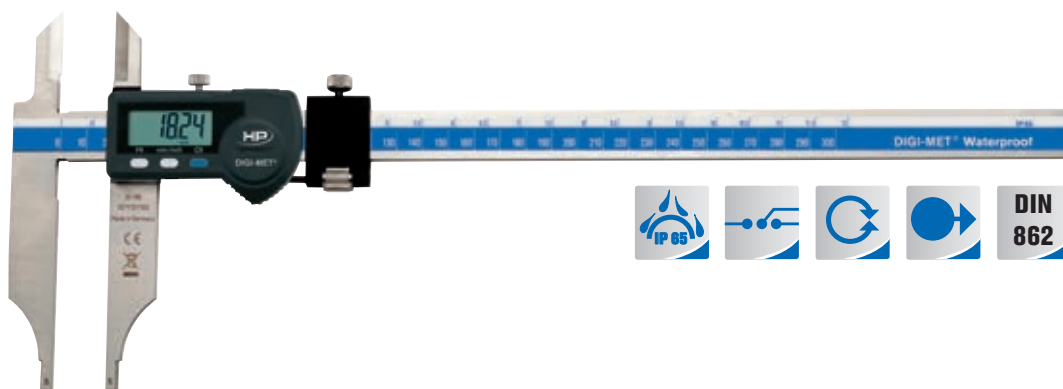
- ON/OFF switch
- QuickStart**-Electronic
- QuickLock**-Function
- Zero-setting at any position
- mm/inch-conversion
- variable data output RS 232 + Digimatic + USB
- PRESET Function (setting a numerical value)




Shipment

- Wooden case



			Measuring range		Jaw length		Reading		Stepped jaws	Ref. No.	List price
			mm	inch	mm	inch	mm	inch	mm	Euro	
Without fine adjustment											
▪	▪		300	12	90	3.5	0.01	.0005	10	1240 522	387.00
▪	▪		500	20	125	5.0	0.01	.0005	20	1240 528	738.00
▪	▪		800	31	150	6.0	0.01	.0005	20	1240 532	996.00
▪	▪		1000	39	150	6.0	0.01	.0005	20	1240 534	1,225.00



			Measuring range		Jaw length		Reading		Stepped jaws	Ref. No.	List price
			mm	inch	mm	inch	mm	inch	mm	Euro	
With fine adjustment											
▪	▪		300	12	90	3.5	0.01	.0005	10	1241 522	437.00
▪	▪		500	20	125	5.0	0.01	.0005	20	1241 528	788.00
▪	▪		800	31	150	6.0	0.01	.0005	20	1241 532	1,046.00
▪	▪		1000	39	150	6.0	0.01	.0005	20	1241 534	1,275.00

Accessories

	Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable for USB, incl. Software	1998 720	64.00
Cable for RS 232	1997 501	44.90
Cable for Digimatic	1998 501	44.90





1242 / 1243 DIGI-MET® Workshop calipers IP65



Specification

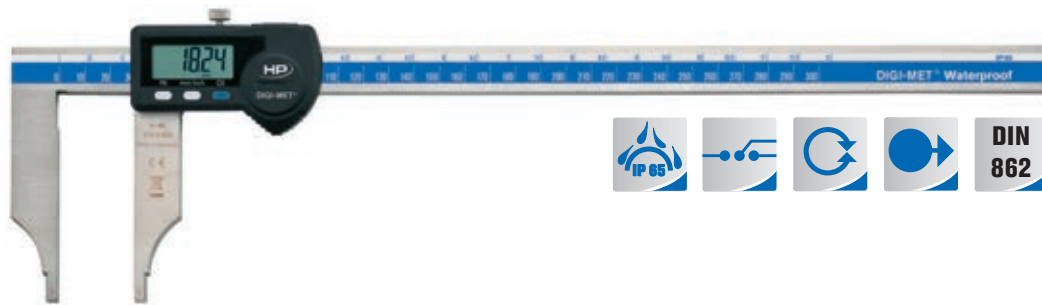
- Stainless steel
- Inductive measuring system, protection class IP65
- DIN 862
- without Knife points
- LCD display: 8.5 mm, with measuring range 300 mm, 12.5 mm from measuring range 500 mm
- Locking screw




Electronic functions

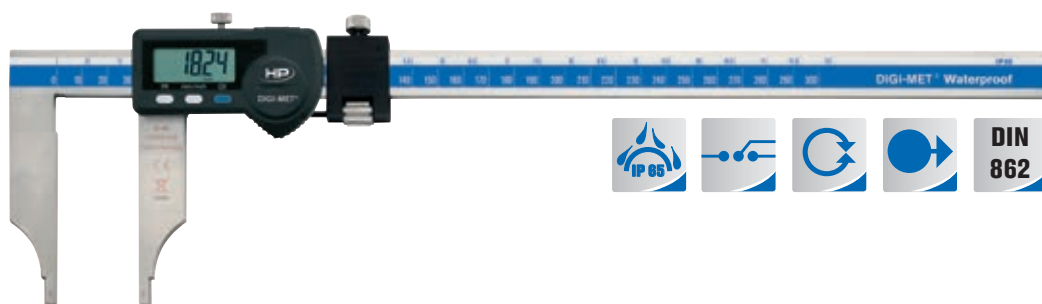
- ON/OFF switch
- QuickStart-Electronic
- QuickLock-Function
- Zero-setting at any position
- mm/inch-conversion
- variable data output RS 232 + Digimatic + USB
- PRESET Function (setting a numerical value)




Shipment

- Wooden case



			Measuring range		Jaw length		Reading		Stepped jaws	Ref. No.	List price
			mm	inch	mm	inch	mm	inch	mm	Euro	
Without fine adjustment											
▪	▪		300	12	90	3.5	0.01	.0005	10	1242 522	356.00
▪	▪		500	20	125	5.0	0.01	.0005	20	1242 528	657.00
▪	▪		800	31	150	6.0	0.01	.0005	20	1242 532	909.00
▪	▪		1000	39	150	6.0	0.01	.0005	20	1242 534	1,130.00



			Measuring range		Jaw length		Reading		Stepped jaws	Ref. No.	List price
			mm	inch	mm	inch	mm	inch	mm	Euro	
With fine adjustment											
▪	▪		300	12	90	3.5	0.01	.0005	10	1243 522	406.00
▪	▪		500	20	125	5.0	0.01	.0005	20	1243 528	707.00
▪	▪		800	31	150	6.0	0.01	.0005	20	1243 532	959.00
▪	▪		1000	39	150	6.0	0.01	.0005	20	1243 534	1.180.00

Accessories

Accessories	Ref. No.	List price
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable for USB, incl. Software	1998 720	64.00
Cable for RS 232	1997 501	44.90
Cable for Digimatic	1998 501	44.90



0222 / 0223 DIGI-MET® Workshop calipers



Specification

- Stainless steel
- LCD display 6 mm
- Locking screw
- Knife points




Electronic functions

- ON/OFF switch
- Zero setting at any position
- mm/inch conversion
- Data output Opto RS 232
- Hold Function

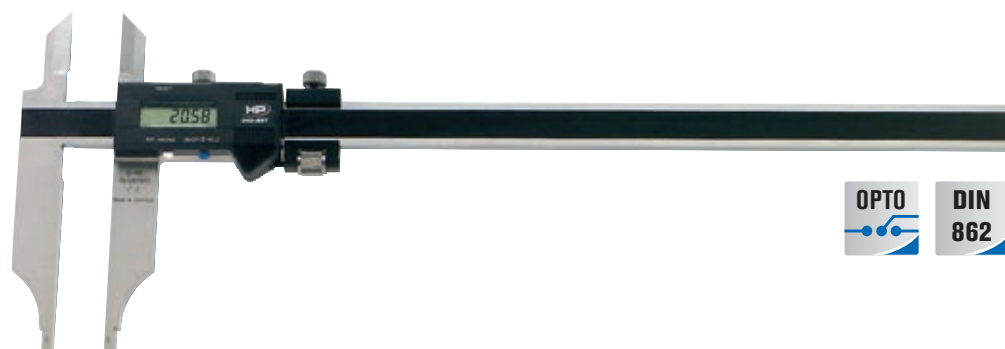
Shipment




- Wooden case



			Measuring range		Jaw length		Reading		Stepped jaws	Ref. No.	List price
			mm	inch	mm	inch	mm	inch	mm	Euro	
Without fine adjustment											
▪	▪		300	12	90	3.5	0.01	.0005	10	0222 701	351.00
▪	▪		500	20	125	5.0	0.01	.0005	20	0222 702	517.00
▪	▪		800	31	150	6.0	0.01	.0005	20	0222 703	846.00
▪	▪		1000	39	150	6.0	0.01	.0005	20	0222 704	970.00
		▪	1500*	59	200	8.0	0.01	.0005	30	0222 724*	2,403.00
		▪	2000*	79	200	8.0	0.01	.0005	30	0222 726*	2,883.00

* Factory standard error limit



			Measuring range		Jaw length		Reading		Stepped jaws	Ref. No.	List price
			mm	inch	mm	inch	mm	inch	mm	Euro	
With fine adjustment											
▪	▪		300	12	90	3.5	0.01	.0005	10	0223 701	392.00
▪	▪		500	20	125	5.0	0.01	.0005	20	0223 702	581.00
▪	▪		800	31	150	6.0	0.01	.0005	20	0223 703	897.00
▪	▪		1000	39	150	6.0	0.01	.0005	20	0223 704	1,033.00
		▪	1500*	59	200	8.0	0.01	.0005	30	0223 724*	2,564.00
		▪	2000*	79	200	8.0	0.01	.0005	30	0223 726*	2,971.00

* Factory standard error limit

Accessories

	Ref. No.	List price
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable for Opto to RS 232	0996 701	69.00
Cable for Opto to USB	0996 705	132.00
USB-keyboard interface cable Opto RS 232	0997 770	225.00





0224 / 0225 DIGI-MET® Workshop calipers



Specification

- Stainless steel
- LCD display 6 mm
- Locking screw
- Without knife points

Electronic functions

- ON/OFF switch
- Zero setting at any position
- mm/inch conversion
- Data output Opto RS 232
- Hold Function

Shipment

- Wooden case



			Measuring range		Jaw length		Reading		Stepped jaws	Ref. No.	List price
			mm	inch	mm	inch	mm	inch	mm		Euro
Without fine adjustment											
▪	▪		300	12	90	3.5	0.01	.0005	10	0224 701	319.00
▪	▪		500	20	125	5.0	0.01	.0005	20	0224 702	441.00
▪	▪		800	31	150	6.0	0.01	.0005	20	0224 703	771.00
▪	▪		1000	39	150	6.0	0.01	.0005	20	0224 704	887.00
		▪	1500*	59	200	8.0	0.01	.0005	30	0224 724*	2,173.00
		▪	2000*	79	200	8.0	0.01	.0005	30	0224 726*	2,634.00

* Factory standard error limit



			Measuring range		Jaw length		Reading		Stepped jaws	Ref. No.	List price
			mm	inch	mm	inch	mm	inch	mm		Euro
With fine adjustment											
▪	▪		300	12	90	3.5	0.01	.0005	10	0225 701	358.00
▪	▪		500	20	125	5.0	0.01	.0005	20	0225 702	508.00
▪	▪		800	31	150	6.0	0.01	.0005	20	0225 703	831.00
▪	▪		1000	39	150	6.0	0.01	.0005	20	0225 704	956.00
		▪	1500*	59	200	8.0	0.01	.0005	30	0225 724*	2,291.00
		▪	2000*	79	200	8.0	0.01	.0005	30	0225 726*	2,719.00

* Factory standard error limit

Accessories

	Ref. No.	List price
		Euro
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable for Opto to RS 232	0996 701	69.00
Cable for Opto to USB	0996 705	132.00
USB-keyboard interface cable Opto RS 232	0997 770	225.00



0221 DIGI-MET® Workshop calipers



Specification

- Stainless steel
- DIN 862
- LCD display 6 mm
- Locking screw
- Inside cross points
- Three way measurement

Electronic functions

- ON/OFF switch
- Zero setting at any position
- mm/inch conversion
- Data output Opto RS 232
- Hold Function

Shipment

- Wooden case



			Measuring range		Jaw length		Reading		Stepped jaws	Ref. No.	List price
			mm	inch	mm	inch	mm	inch	mm		Euro
Without fine adjustment											
▪			300	12	90	3.5	0.01	.0005	10	0221 701	498.00
▪			500	20	125	5.0	0.01	.0005	20	0221 702	643.00



			Measuring range		Jaw length		Reading		Stepped jaws	Ref. No.	List price
			mm	inch	mm	inch	mm	inch	mm		Euro
With fine adjustment											
▪			300	12	90	3.5	0.01	.0005	10	0221 711	531.00
▪			500	20	125	5.0	0.01	.0005	20	0221 712	704.00

Accessories

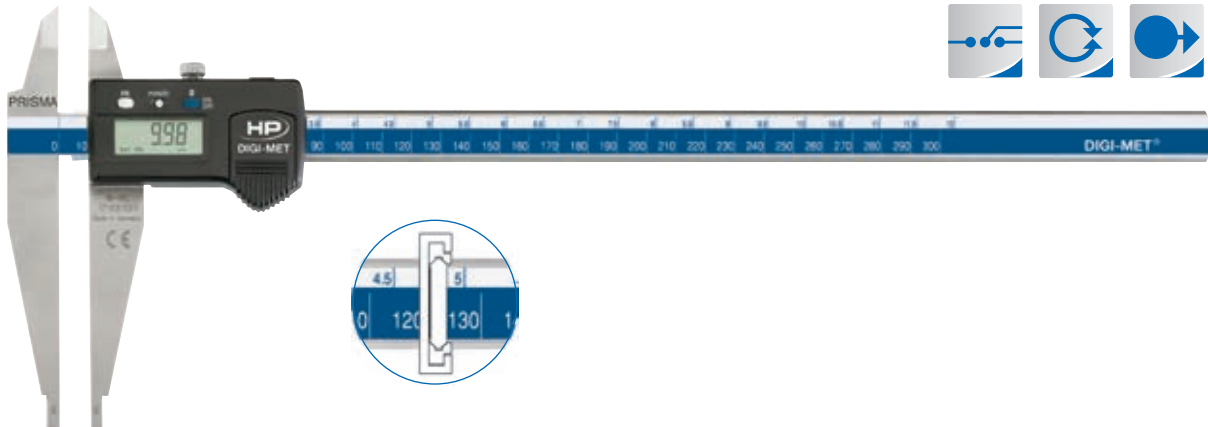
	Ref. No.	List price
		Euro
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable for Opto to RS 232	0996 701	69.00
Cable for Opto to USB	0996 705	132.00
USB-keyboard interface cable Opto RS 232	0997 770	225.00





1238 DIGI-MET® Workshop caliper PRISMA

HP



DIN
862

Specification

- Double prisma guide with excellent sliding characteristics
- Stainless steel
- Accuracy in accordance to DIN 862
- LCD display 7.5 mm
- Locking screw
- Knife points
- Stepped jaws for inside measurement 10 mm

Electronic functions

- ON/OFF switch
- **QuickStart** Electronic
- **QuickLock** Function
- Zero setting at any position
- mm/inch conversion
- Variable data output RS232 + Digimatic + USB
- PRESET Function (setting a numerical value)

Shipment

- Wooden case

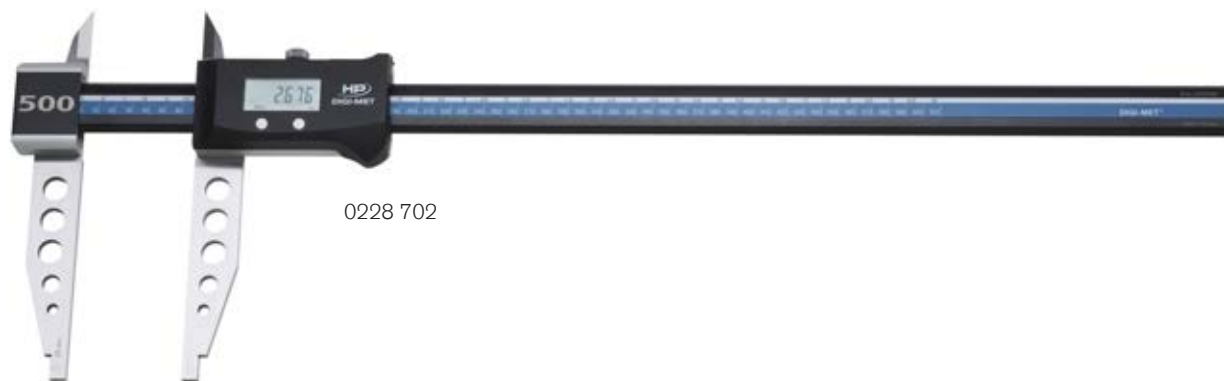
			Measuring range		Jaw length		Reading		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch		
■	■	■	300	12	90	3.5	0.01	.0005	1238 522	427.00

Accessories

	Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable for USB, incl. Software	1998 720	64.00
Cable for RS 232	1997 501	44.90
Cable for Digimatic	1998 501	44.90



0228 DIGI-MET® Workshop calipers lightweight



0228 702

Specification

- To reduce weight, both the slide and beam are made of aluminium, with a hard anodized surface coating (1100 HV)
- Measuring faces are made of hardened stainless steel
- Factory standard
- Smoother, more even movement due to the double V-guide
- LCD display 10.5 mm
- Locking screw
- Knife points

Electronic functions

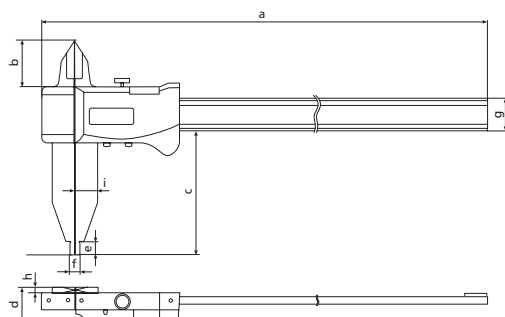
- ON/OFF switch
- Zero setting at any position
- mm/inch conversion
- Hold Function

Shipment

- Wooden case

			Measuring range		Jaw length		Reading		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch		
▪			300	12	90	3.5	0.01	.0005	0228 701*	442.00
▪			500	20	150	6.0	0.01	.0005	0228 702	615.00
▪			800	31	150	6.0	0.01	.0005	0228 703	865.00
▪			1000	39	150	6.0	0.01	.0005	0228 704	1,020.00

* With data output Opto RS232



Dimensions	a	b	c	d	e	f	g	h	i
300	450	33	90	24.5	10	10	25.0	4.5	17.0
500	726	42	150	33.5	15	20	31.9	6.0	29.0
800	1026	42	150	33.5	15	20	31.9	6.0	29.0
1000	1226	42	150	33.5	15	20	31.9	6.0	29.0

Accessories

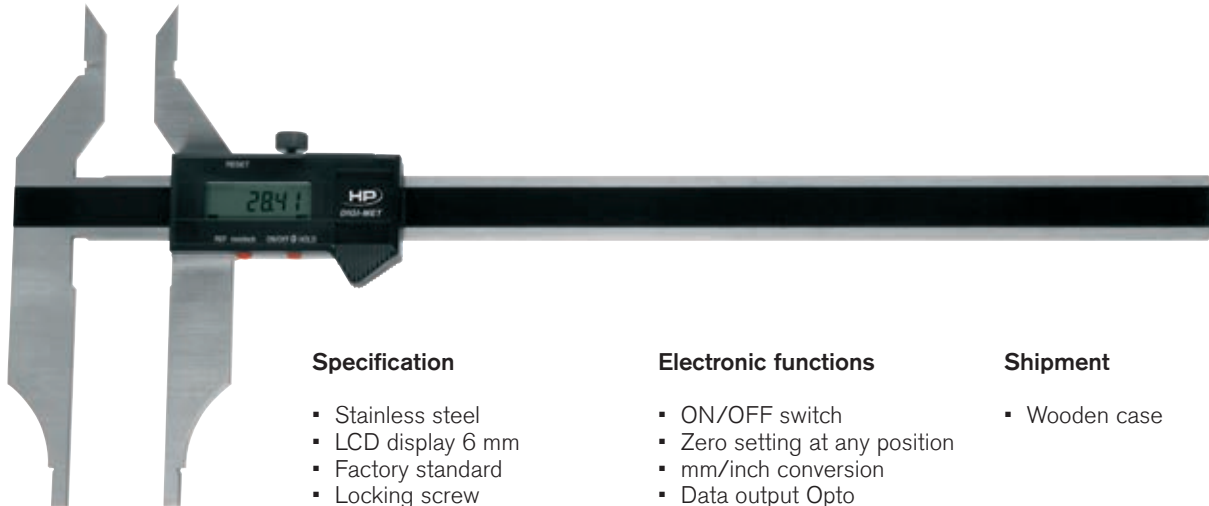
	Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032	0220 704	3.50



0265 DIGI-MET® Caliper with cross points

HP

OPTO



Specification

- Stainless steel
- LCD display 6 mm
- Factory standard
- Locking screw
- Inside cross points

Electronic functions

- ON/OFF switch
- Zero setting at any position
- mm/inch conversion
- Data output Opto RS 232
- Hold Function

Shipment

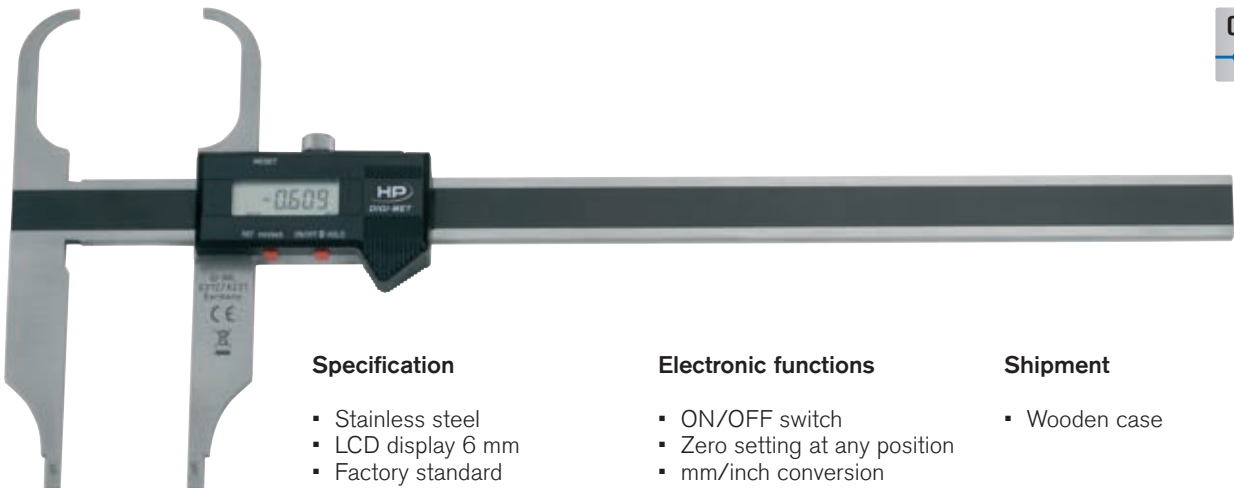
- Wooden case

			Measuring range		Length of cross points		Reading		Cross section	Ref. No.	List price
			mm	inch	mm	inch	mm	inch			
■			250	10	75	3.15	0.01	0.005	20 x 5	0265 720	448.00

0266 DIGI-MET® Caliper with gripper points

HP

OPTO



Specification

- Stainless steel
- LCD display 6 mm
- Factory standard
- Locking screw
- Gripper points

Electronic functions

- ON/OFF switch
- Zero setting at any position
- mm/inch conversion
- Data output Opto RS 232
- Hold Function

Shipment

- Wooden case

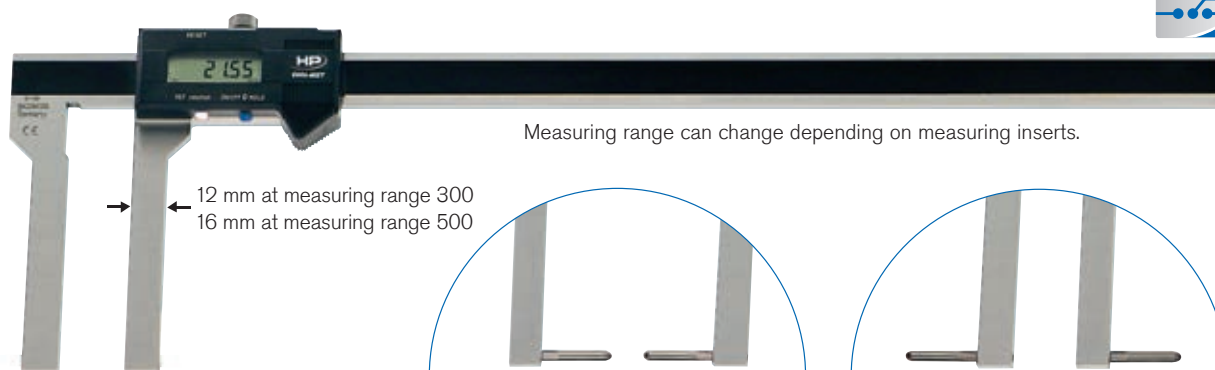
			Measuring range		Length of gripper points		Reading		Cross section	Ref. No.	List price
			mm	inch	mm	inch	mm	inch			
■			250	10	75	3.15	0.01	0.005	20 x 5	0266 720	530.00



0226 DIGI-MET® Universal calipers

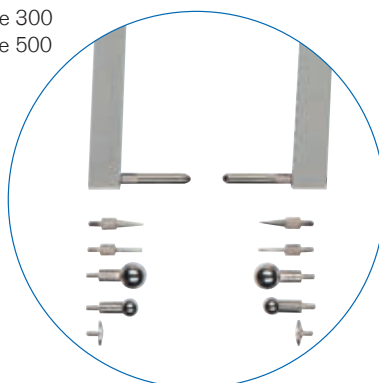
HP

OPTO

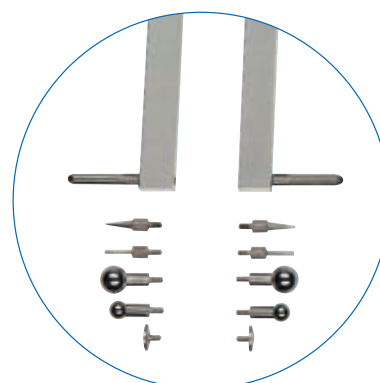


Measuring range can change depending on measuring inserts.

→ 12 mm at measuring range 300
← 16 mm at measuring range 500



▪ for external measurements



▪ for internal measurements

Specification

- Stainless steel
- Factory standard
- LCD display 6 mm
- Locking screw
- For internal and external measurements
- Individually adaptable on problematic measuring tasks through measuring inserts with thread M 2.5 (optional see pages 3/14 to 3/17)

Electronic functions

- ON/OFF switch
- Zero setting at any position
- mm/inch conversion
- Data output Opto RS 232
- Hold Function
- PRESET Function (setting a numerical value)

Shipment

- Wooden case
- Without measuring inserts (correct measuring inserts with thread M 2.5 see pages 3/14 to 3/17)

			Measuring range		Jaw length		Reading		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch		
▪			300	12	90	3.5	0.01	.0005	0226 701	511.00
▪			500	20	100	4.0	0.01	.0005	0226 702	661.00

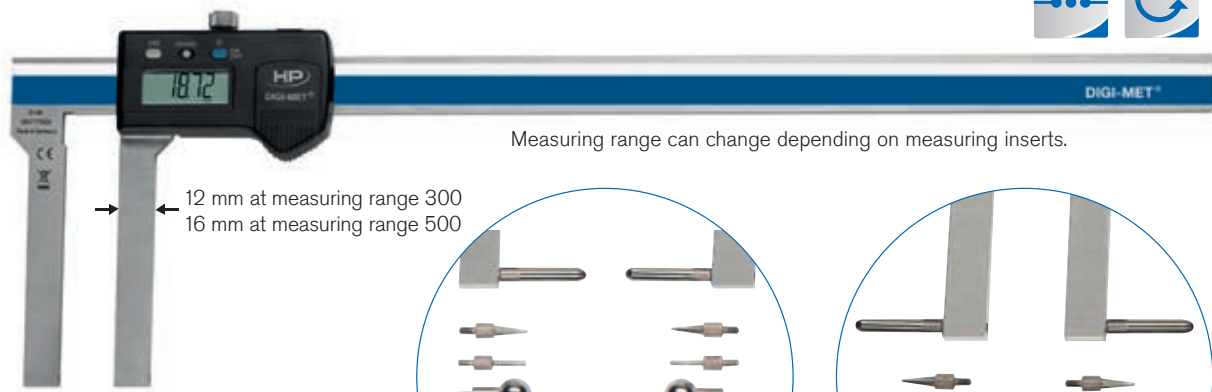
Accessories

	Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable for Opto to RS 232	0996 701	69.00
Cable for Opto to USB	0996 705	132.00
USB-keyboard interface cable Opto RS 232	0997 770	225.00



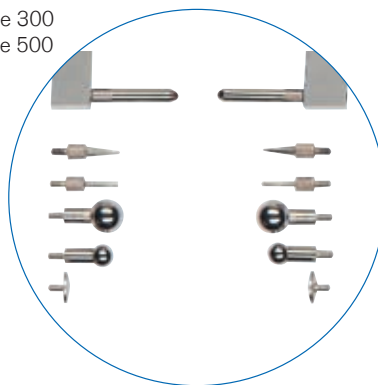


1248 DIGI-MET® Universal calipers

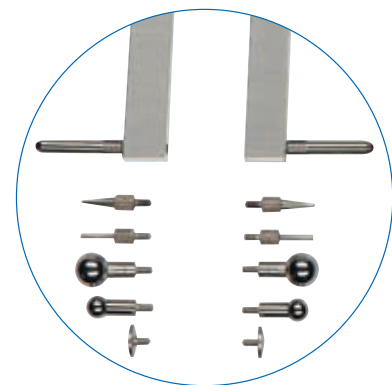


Measuring range can change depending on measuring inserts.

12 mm at measuring range 300
16 mm at measuring range 500



▪ for external measurements



▪ for internal measurements

Specification

- Stainless steel
- Factory standard
- LCD display 8.5 and/or 12.5 mm
- Locking screw
- For internal and external measurements
- Individually adaptable on problematic measuring tasks through measuring inserts with thread M 2.5 (optional see pages 3/14 to 3/17)

Electronic functions

- ON/OFF switch
- **QuickStart** Electronic
- **QuickLock** Function
- Zero setting at any position
- mm/inch conversion
- Variable data output
RS 232 + Digimatic + USB
- PRESET Function (setting a numerical value)

Shipment

- Wooden case
- Without measuring inserts (correct measuring inserts with thread M 2.5 see pages 3/14 to 3/17)

			Measuring range		Jaw length		Reading		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch		
▪			300	12	90	3.5	0.01	.0005	1248 722	545.00
▪			500	20	100	4.0	0.01	.0005	1248 728	699.00

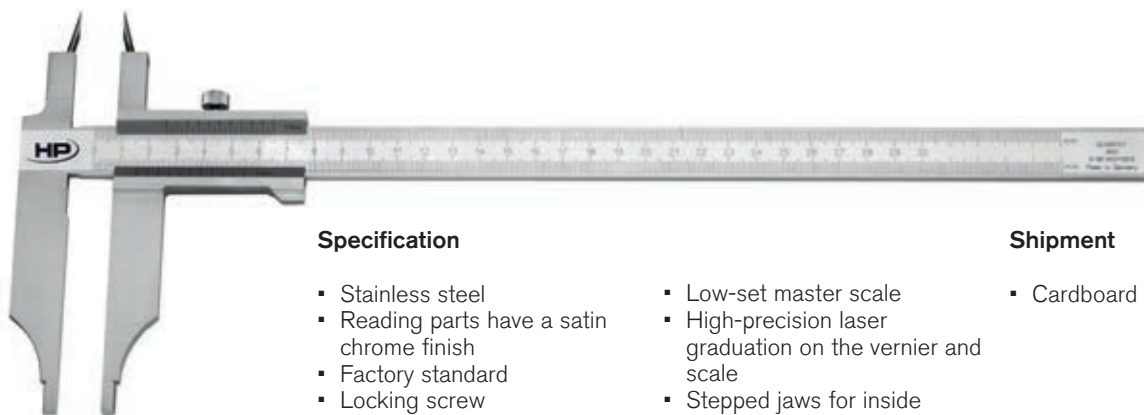
Accessories

	Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable for USB, incl. Software	1998 720	64.00
Cable for RS 232	1997 501	44.90
Cable for Digimatic	1998 501	44.90



0250 Contraction vernier calipers

HP






Specification

- Stainless steel
- Reading parts have a satin chrome finish
- Factory standard
- Locking screw
- With interchangeable hardened scribing jaws
- Low-set master scale
- High-precision laser graduation on the vernier and scale
- Stepped jaws for inside measurement: 10 mm and/or 20 mm*

Shipment




- Cardboard box

			Measuring range mm	Jaw length mm	Reading		Ref. No.	List price Euro
					mm	mm		
Direct reading for internal and external measurement:								
▪			300	90	0.05	0.05	0250 501	229.00
▪			500	150	0.05	0.05	0250 502*	624.00
▪			600	150	0.05	0.05	0250 503*	740.00
▪			800	150	0.05	0.05	0250 504*	934.00
▪			1000	150	0.05	0.05	0250 505*	1,134.00
Contraction scale divisions 1.0% ▪ 1.5% ▪ 2.0% ▪ 1/1 mm:								
▪			300	90	0.1		0250 511	247.00
			500	150	0.1		0250 512*	655.00
			600	150	0.1		0250 513*	778.00
			800	150	0.1		0250 514*	1,001.00
			1000	150	0.1		0250 515*	1,216.00
Contraction scale divisions 0.5% ▪ 0.8% ▪ 1.0% ▪ 1/1 mm:								
▪			300	90	0.1		0250 521	247.00
			500	150	0.1		0250 522*	655.00
			600	150	0.1		0250 523*	778.00
			800	150	0.1		0250 524*	1,001.00
			1000	150	0.1		0250 525*	1,216.00
Contraction scale divisions 1.0% ▪ 1.25% ▪ 1.5% ▪ 1/1 mm:								
▪			300	90	0.1		0250 531	247.00
			500	150	0.1		0250 532*	655.00
			600	150	0.1		0250 533*	778.00
			800	150	0.1		0250 534*	1,001.00
			1000	150	0.1		0250 535*	1,216.00
Contraction scale divisions 1.75% ▪ 2.0% ▪ 2.5% ▪ 1/1 mm:								
▪			300	90	0.1		0250 541	247.00
			500	150	0.1		0250 542*	655.00
			600	150	0.1		0250 543*	778.00
			800	150	0.1		0250 544*	1,001.00
			1000	150	0.1		0250 545*	1,216.00



0250 Contraction vernier calipers



				Measuring range mm	Jaw length mm	Reading		Ref. No.	List price Euro
						mm	mm		
Contraction scale divisions 1.0% ▪ 1.25% ▪ 2.0% ▪ 1/1 mm:									
▪			300	90	0.1			0250 551	247.00
			500	150	0.1			0250 552*	655.00
			600	150	0.1			0250 553*	778.00
			800	150	0.1			0250 554*	1,001.00
			1000	150	0.1			0250 555*	1,216.00
Contraction scale divisions 0.3% ▪ 0.4% ▪ 0.6% ▪ 1/1 mm:									
▪			300	90	0.1			0250 561	247.00
			500	150	0.1			0250 562*	655.00
			600	150	0.1			0250 563*	778.00
			800	150	0.1			0250 564*	1,001.00
			1000	150	0.1			0250 565*	1,216.00
Contraction scale divisions 1.0% ▪ 1.25% ▪ 1.5% ▪ 2.0%:									
▪			300	90	0.1			0250 571	259.00
			500	150	0.1			0250 572*	722.00
			600	150	0.1			0250 573*	859.00
			800	150	0.1			0250 574*	1,081.00
			1000	150	0.1			0250 575*	1,312.00

Interchangeable points (pair) for contraction vernier calipers



Specification

- dia. 3.0 mm and/or
dia. 4.0 mm*

			For measuring ranges	Material	Ref. No.	List price Euro
▪			300 mm	Hardened steel	0250 101	5.30
▪			500 + 600 mm	Hardened steel	0250 102	6.30
▪			800 + 1000 mm	Hardened steel	0250 103*	6.30
▪			300 mm	Carbide	0250 201	53.00
▪			500 + 600 mm	Carbide	0250 202	77.00



0262 Caliper for external locking grooves



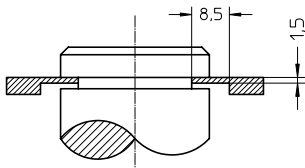
Specification

- Stainless steel
- Reading parts have a satin chrome finish
- Factory standard
- Locking screw
- Low-set master scale
- High-precision laser graduation on the vernier and scale

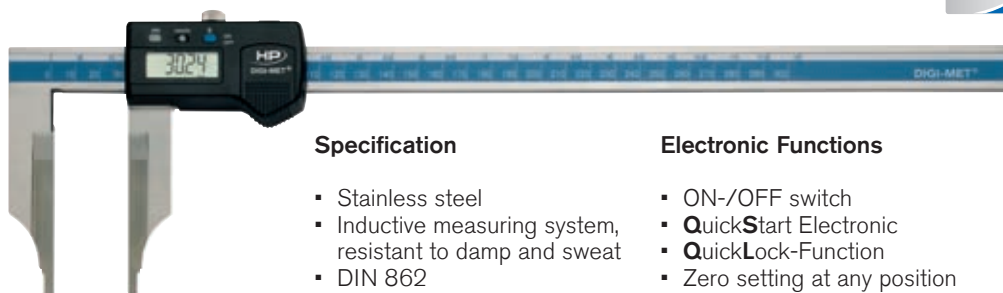
Shipment

- Cardboard box

			Measuring range		Jaw length		Reading		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch		
■			300	12	90	3.5	0.05	1/128	0262 503	243.00



1253 DIGI-MET® Caliper for external locking grooves



Specification

- Stainless steel
- Inductive measuring system, resistant to damp and sweat
- DIN 862

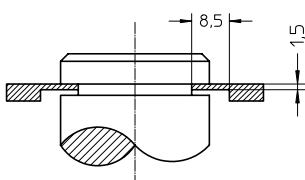
Electronic Functions

- ON-/OFF switch
- QuickStart Electronic
- QuickLock-Function
- Zero setting at any position
- mm/inch-conversion

Shipment

- Wooden case

			Measuring range		Jaw length		Reading		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch		
■			300	12	90	3.5	0.01	.0005	1253 522	440.00



Accessories

	Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable for USB, incl. Software	1998 720	64.00
Cable for RS 232	1997 501	44.90
Cable for Digimatic	1998 501	44.90





0252 Brake drum vernier calipers



Specification

- Stainless steel
- Vernier satin chrome plated
- Factory standard
- Locking screw
- Low-set master scale
- High-precision laser graduation on the vernier and scale

Shipment

- Cardboard box

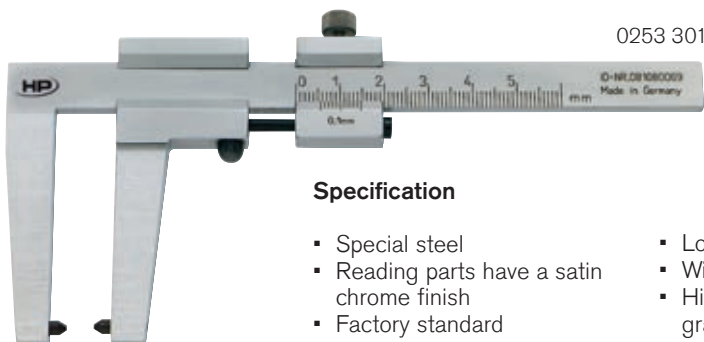
			Measuring range		Jaw length mm	Reading		Ref. No.	List price Euro
			Internal mm	External mm		mm	mm		
▪			40 - 300	0 - 300	90	0.05	0.05	0252 201	128.00
▪			50 - 500	0 - 500	150	0.05	0.05	0252 202	247.00
▪			50 - 600	0 - 600	200	0.05	0.05	0252 203	270.00

Replacement points (pair) for brake drum vernier caliper



			For measuring range	Ref. No.	List price Euro
▪			300 mm	0252 291	2.20
▪			500 + 600 mm	0252 293	3.50

0253 Brake disc inspection gauges



0253 301

Specification

- Special steel
- Reading parts have a satin chrome finish
- Factory standard
- Locking screw
- With trailing vernier
- High-precision laser graduation on the vernier and scale

Shipment

- Cardboard box

			Measuring range mm	Jaw length mm	Reading mm	Ref. No.	List price Euro
For motorcycles:							
▪			0 - 50	30	0.1	0253 300	76.00
For cars:							
▪			0 - 50	50	0.1	0253 301	76.00
For buses:							
▪			0 - 80	50	0.1	0253 302	96.00

Replacement points (pair) for brake disc inspection gauge



			Ref. No.	List price Euro
▪			0253 391	3.50



0258 Calipers for internal grooves



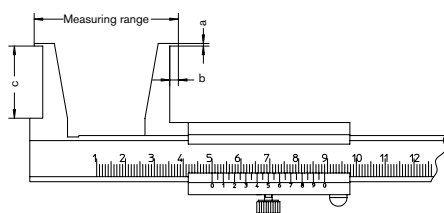
Specification

- Stainless steel
- Reading parts have a satin chrome finish
- Factory standard
- Locking screw
- Low-set master scale
- High-precision laser graduation on the vernier and scale

Shipment

- Cardboard box

			Measuring range mm	Jaw length c mm	Reading mm	Ref. No.	List price Euro
▪			10 - 160	25	0.05	0258 501	129.00
▪			20 - 160	40	0.05	0258 502	172.00
▪			26 - 200	60	0.05	0258 503	264.00
▪			30 - 250	80	0.05	0258 504	299.00
▪			35 - 300	100	0.05	0258 505	334.00



Dimensions for the digital version are identical

Measuring range mm	Jaw dimensions mm	
	a	b
10 - 160	0.9	3.0
20 - 160	2.0	5.0
26 - 200	3.0	7.0
30 - 250	4.0	8.5
35 - 300	5.0	10.0

0258 DIGI-MET® Calipers for internal grooves



Specification

- Stainless steel
- LCD display 6 mm
- Factory standard
- Locking screw

Electronic functions

- ON/OFF switch
- Zero setting at any position
- mm/inch conversion
- Data output Opto RS 232
- Hold Function
- PRESET Function (setting a numerical value)

Shipment

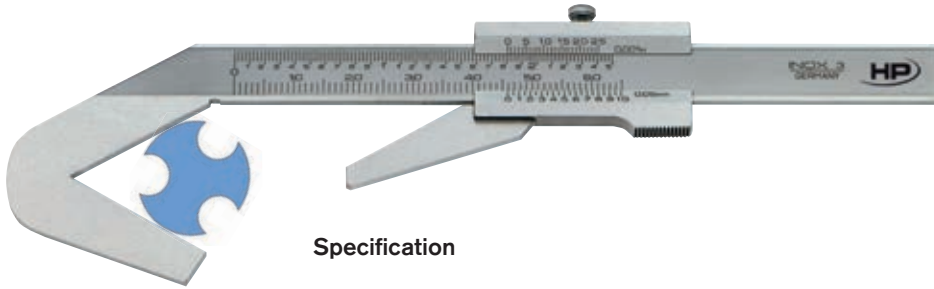
- Wooden case

			Measuring range mm	Jaw length		Reading		Ref. No.	List price Euro
				mm	inch	mm	inch		
▪			10 - 160	25	1.0	0.01	.0005	0258 701	348.00
▪			20 - 160	40	1.5	0.01	.0005	0258 702	392.00
▪			26 - 200	60	2.3	0.01	.0005	0258 703	718.00
▪			30 - 250	80	3.1	0.01	.0005	0258 704	809.00
▪			35 - 300	100	3.9	0.01	.0005	0258 705	843.00





0260 Calipers for 3/5 point measurement



Specification

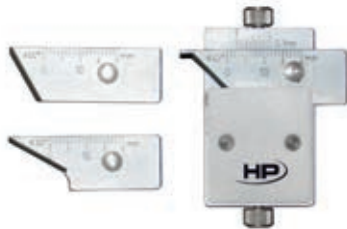
- Stainless steel
- Reading parts have a satin chrome finish
- Factory standard
- Locking screw

Shipment

- Cardboard box

			Measuring range mm	Reading mm	inch	Ref. No.	List price Euro
3 point measurement:							
■			4 - 40	0.05	0.001	0260 501	66.00
5 point measurement:							
■			2 - 40	0.05	0.001	0260 502	66.00

0597 Chamfer gauge



Specification

- Factory standard
- For simultaneously testing of the chamfer angle and the dimensional accuracy
- Stainless steel
- Reading 0.1 mm
- Reading parts are satin chrome finished
- 3 interchangeable blades: 30°, 45°, 60°
- Dimensions: 48x30x8.5 mm

Shipment

- Wooden case

			Measuring range mm	Reading mm	Ref. No.	List price Euro
■			10	0.1	0597 301	157.00

0597 Radius gauge



Specification

- To determine radii size workpieces
- Stainless steel
- Reading parts are satin chrome finished

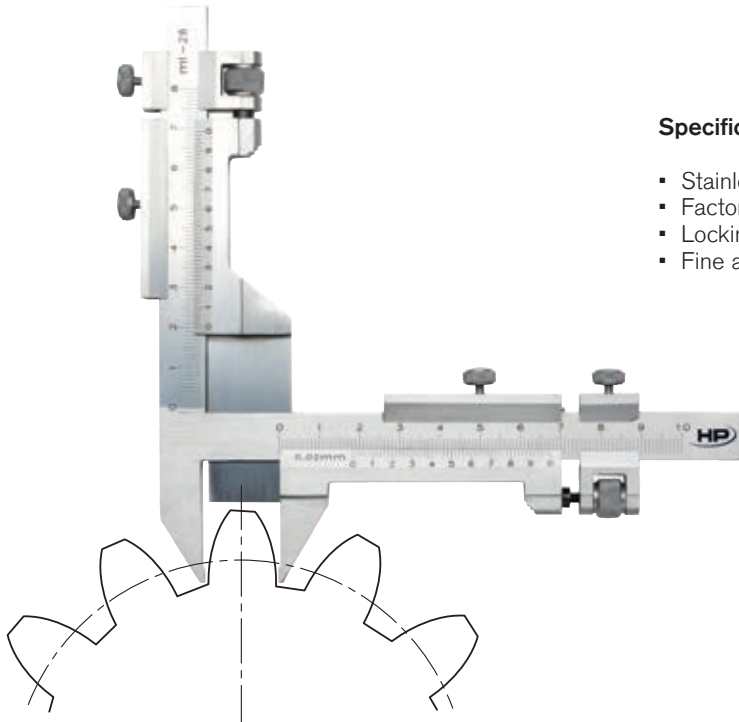
Shipment

- Wooden case

			Measuring range mm	Reading mm	Ref. No.	List price Euro
■			10	0.1	0597 305	157.00



0268 Gear tooth calipers






Specification

- Stainless steel
- Factory standard
- Locking screw
- Fine adjustment

Shipment

- Cardboard box

			Module mm	Reading mm	Ref. No.	List price Euro
Hardened jaw tips:						
▪			1 - 26	0.02	0268 201	277.00
Carbide tipped jaw tips:						
▪			1 - 26	0.02	0268 211	337.00





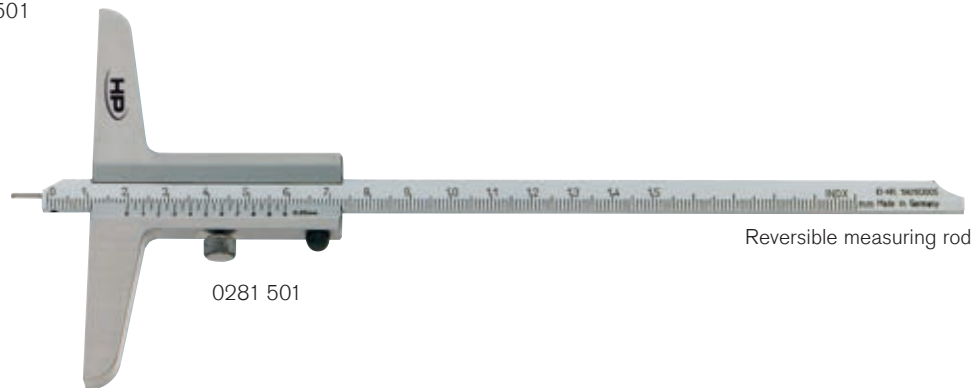
0280 / 0281 Vernier depth gauges

HP

DIN
862



0280 501



Reversible measuring rod




0281 501

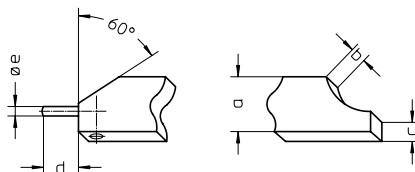
Specification

- Stainless steel
- Reading parts have a satin chrome finish
- DIN 862
- Low-set master scale
- Locking screw
- Measuring rod with interchangeable pin
- High-precision laser graduation on the vernier and scale

Shipment

- Imitation leather case

			Measuring range		Base length		Reading mm	Ref. No.	List price Euro
			mm	inch	mm	inch			
Vernier satin chrome plated, measuring rod with interchangeable pin:									
■	■		80		50	2	0.05	0280 501	45.80
Vernier satin chrome plated, reversible measuring rod with interchangeable pin:									
■	■		150	6	100	4	0.05	0281 201	73.00
■	■		200	8	100	4	0.05	0281 202	76.00
■	■		250	10	130	5	0.05	0281 204	85.00
■	■		300	12	150	6	0.05	0281 205	95.00
Vernier + scale satin chrome plated, reversible measuring rod with interchangeable pin:									
■	■		150	6	100	4	0.05	0281 501	80.00
■	■		200	8	100	4	0.05	0281 502	83.00
■	■		250	10	130	5	0.05	0281 504	94.00
■	■		300	12	150	6	0.05	0281 505	103.00



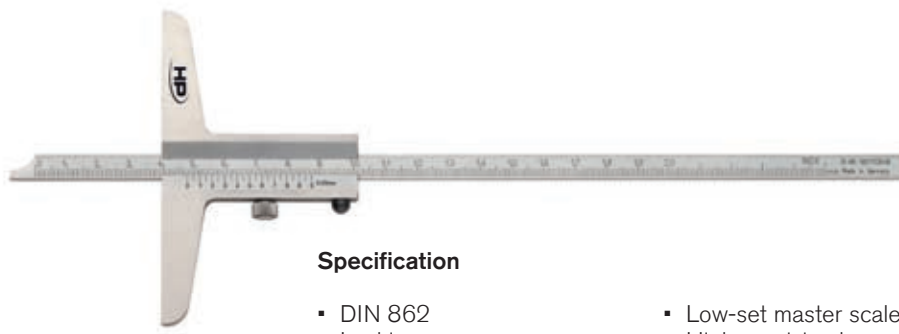
Meas. range mm	a	b	c	d	e
150 - 200	8	3	3.5	8	1.5
250 - 300	12	4	4	8	2



0282 Vernier depth gauges

HP

DIN
862






Specification

- DIN 862
- Locking screw
- Straight measuring rod
- Low-set master scale
- High-precision laser graduation on the vernier and scale

Shipment

- Cardboard box for calipers up to 1000 mm, larger measuring ranges are individually packed

			Measuring range		Base length		Reading mm	Ref. No.	List price Euro
			mm	inch	mm	inch			
Special steel, vernier satin chrome plated:									
▪	▪		150	6	100	4	0.05	0282 101	43.30
▪	▪		200	8	100	4	0.05	0282 102	45.10
▪	▪		250	10	130	5	0.05	0282 104	54.00
▪	▪		300	12	150	6	0.05	0282 105	60.00
▪	▪		500	20	250	10	0.05	0282 108	126.00
▪	▪		800	31	250	10	0.05	0282 109	219.00
▪	▪		1000	39	250	10	0.05	0282 110	303.00
Stainless steel, vernier satin chrome plated:									
▪	▪		150	6	100	4	0.05	0282 201	64.00
▪	▪		200	8	100	4	0.05	0282 202	66.00
▪	▪		300	12	100	4	0.05	0282 203	77.00
▪	▪		250	10	130	5	0.05	0282 204	74.00
▪	▪		300	12	150	6	0.05	0282 205	81.00
▪	▪		400	16	150	6	0.05	0282 206	90.00
▪	▪		500	20	150	6	0.05	0282 207	124.00
▪	▪		500	20	250	10	0.05	0282 208	191.00
▪	▪		800	31	250	10	0.05	0282 209	316.00
▪	▪		1000	39	250	10	0.05	0282 210	449.00
		▪	1500	59	300	12	0.05	0282 212	1,096.00
		▪	2000	79	300	12	0.05	0282 213	1,440.00
Stainless steel, vernier + scale satin chrome plated:									
▪	▪		150	6	100	4	0.05	0282 501	70.00
▪	▪		200	8	100	4	0.05	0282 502	74.00
▪	▪		300	12	100	4	0.05	0282 503	84.00
▪	▪		250	10	130	5	0.05	0282 504	81.00
▪	▪		300	12	150	6	0.05	0282 505	88.00
▪	▪		500	20	150	6	0.05	0282 507	137.00
▪	▪		500	20	250	10	0.05	0282 508	209.00
▪	▪		800	31	250	10	0.05	0282 509	347.00
▪	▪		1000	39	250	10	0.05	0282 510	492.00



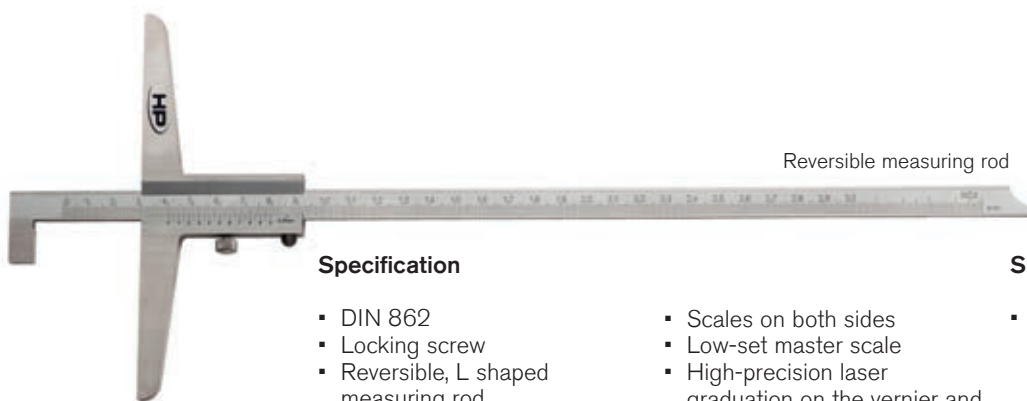
Measuring range mm		Dimension mm		
		A	B	C
150	- 200	8.0	3.0	3.5
250	- 500	12.0	4.0	4.0
500	- 1000	20.0	5.0	10.0
1500		25.0	6.0	13.0
2000		30.0	7.0	13.0



0286 Vernier depth gauges

HP

DIN
862



Reversible measuring rod




Specification

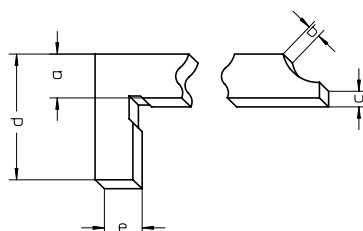
- DIN 862
- Locking screw
- Reversible, L shaped measuring rod

- Scales on both sides
- Low-set master scale
- High-precision laser graduation on the vernier and scale

Shipment

- Cardboard box for calipers up to 1000 mm, larger measuring ranges are individually packed

			Measuring range		Base length		Reading mm	Ref. No.	List price Euro
			mm	inch	mm	inch			
Special steel, vernier satin chrome plated:									
▪	▪		150	6	100	4	0.05	0286 101	53.00
▪	▪		200	8	100	4	0.05	0286 102	54.00
▪	▪		250	10	130	5	0.05	0286 104	66.00
▪	▪		300	12	150	6	0.05	0286 105	73.00
Stainless steel, vernier satin chrome plated:									
▪	▪		150	6	100	4	0.05	0286 201	77.00
▪	▪		200	8	100	4	0.05	0286 202	79.00
▪	▪		250	10	130	5	0.05	0286 204	88.00
▪	▪		300	12	150	6	0.05	0286 205	95.00
▪	▪		400	16	150	6	0.05	0286 206	118.00
▪	▪		500	20	150	6	0.05	0286 207	150.00
▪	▪		500	20	250	10	0.05	0286 208	251.00
▪	▪		800	31	250	10	0.05	0286 209	393.00
▪	▪		1000	39	250	10	0.05	0286 210	545.00
		▪	1500	59	300	12	0.05	0286 212	1,178.00
		▪	2000	79	300	12	0.05	0286 213	1,518.00
Stainless steel, vernier + scale satin chrome plated:									
▪	▪		150	6	100	4	0.05	0286 501	84.00
▪	▪		200	8	100	4	0.05	0286 502	85.00
▪	▪		250	10	130	5	0.05	0286 504	97.00
▪	▪		300	12	150	6	0.05	0286 505	103.00
▪	▪		500	20	150	6	0.05	0286 507	165.00
▪	▪		500	20	250	10	0.05	0286 508	348.00
▪	▪		800	31	250	10	0.05	0286 509	469.00
▪	▪		1000	39	250	10	0.05	0286 510	598.00



Meas. range mm	a	b	c	d	e
150 - 200	8	3	3.5	20	5
250 - 500	12	4	4	28	10
500 - 1000	20	5	10	70	19
1500	25	6	10	90	24
2000	30	7	10	90	29



0289 Contraction vernier depth gauges



Specification

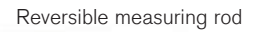
- Stainless steel
- Reading parts have a satin chrome finish
- Factory standard
- Locking screw
- Straight measuring rod
- Low-set master scale
- Scales on both sides
- High-precision laser graduation on the vernier and scale

Shipment

- Cardboard box

			Measuring range mm	Base length mm	Reading mm	Ref. No.	List price Euro
Contraction scale divisions: 1.0% ▪ 1.5% ▪ 2.0% ▪ 1/1 mm							
▪			300	150	0.1	0289 511	170.00
▪			500	150	0.1	0289 512	256.00
Contraction scale divisions: 0.5% ▪ 0.8% ▪ 1.0% ▪ 1/1 mm							
▪			300	150	0.1	0289 521	170.00
▪			500	150	0.1	0289 522	256.00
Contraction scale divisions: 1.0% ▪ 1.25% ▪ 1.5% ▪ 1/1 mm							
▪			300	150	0.1	0289 531	170.00
▪			500	150	0.1	0289 532	256.00
Contraction scale divisions: 1.75% ▪ 2.0% ▪ 2.5% ▪ 1/1 mm							
▪			300	150	0.1	0289 541	170.00
▪			500	150	0.1	0289 542	256.00
Contraction scale divisions: 1.0% ▪ 1.25% ▪ 2.0% ▪ 1/1 mm							
▪			300	150	0.1	0289 551	170.00
▪			500	150	0.1	0289 552	256.00
Contraction scale divisions: 0.3% ▪ 0.4% ▪ 0.6% ▪ 1/1 mm							
▪			300	150	0.1	0289 561	169.00
▪			500	150	0.1	0289 562	256.00
Contraction scale divisions: 1.0% ▪ 1.25% ▪ 1.5% ▪ 2.0%							
▪			300	150	0.1	0289 571	182.00
▪			500	150	0.1	0289 572	270.00

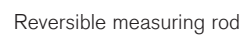




- Stainless steel
- Reading parts have a satin chrome finish
- Factory standard
- Locking screw
- Reversible, offset meas. rod
- Low-set master scale
- Scales on both sides
- High-precision laser graduation on the vernier and scale

Shipment

- Cardboard box



Specification

- Stainless steel
- Reading parts have a satin chrome finish
- Factory standard
- Locking screw
- Sliding measuring base
- With measuring plate and pin
- Low-set master scale
- Scales on both sides
- High-precision laser graduation on the vernier and scale

Shipment

- Cardboard box

Technical drawing of a mechanical part showing dimensions: C , d , R , and a tolerance of 0.01 .

Meas. range mm	a	b	c	d	e	f
250 - 500	12	4	18	6	2	2
750 - 1000	20	5	30	8	3	3

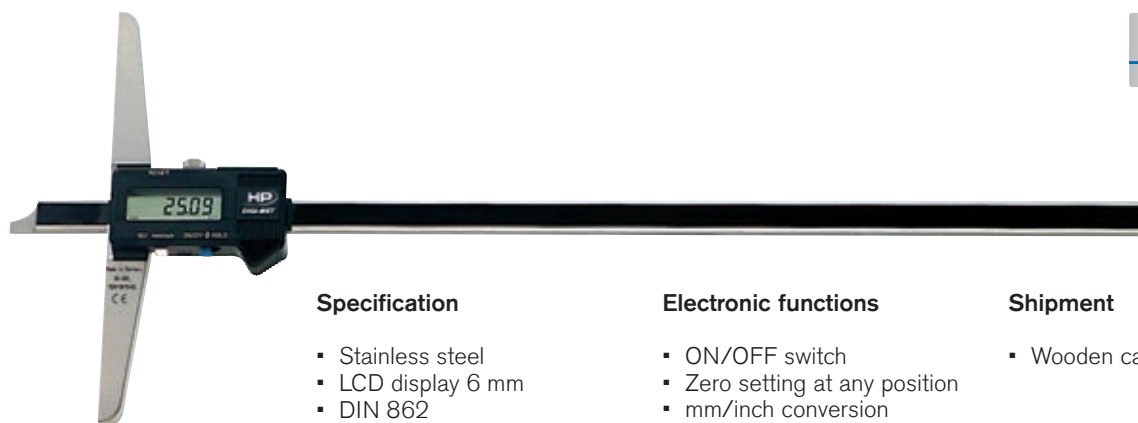


0274 DIGI-MET® Depth gauges

HP



DIN
862



Specification

- Stainless steel
- LCD display 6 mm
- DIN 862
- Locking screw
- Straight measuring rod

Electronic functions

- ON/OFF switch
- Zero setting at any position
- mm/inch conversion
- Data output Opto RS 232
- Hold Function

Shipment

- Wooden case

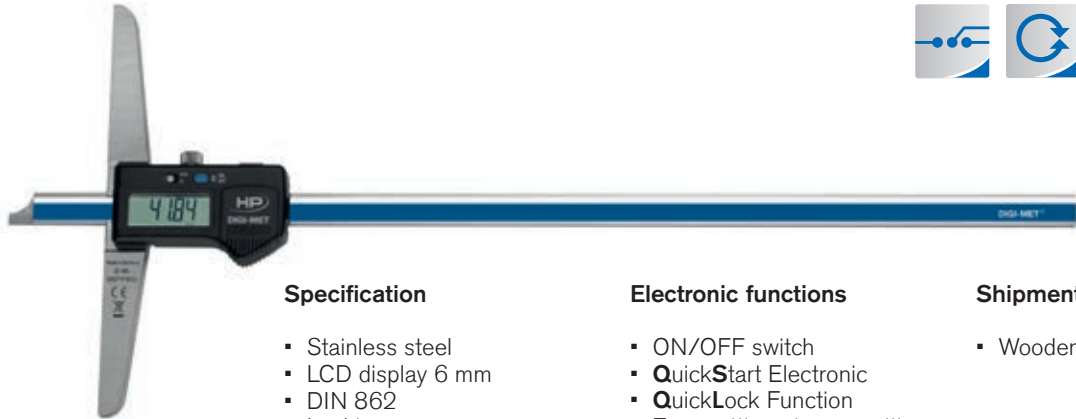
			Measuring range		Base length		Reading		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch		
▪	▪		150	6	100	4	0.01	.005	0274 708	295.00
▪	▪		200	8	100	4	0.01	.0005	0274 700	309.00
▪	▪		300	12	150	6	0.01	.0005	0274 701	345.00
▪	▪		500	20	150	6	0.01	.0005	0274 702	409.00
▪	▪		1000	39	250	10	0.01	.0005	0274 704	1,645.00
		▪	1500	59	250	10	0.01	.0005	0274 712	1,877.00
		▪	2000	79	250	10	0.01	.0005	0274 713	2,227.00

Accessories

	Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable for Opto to RS 232	0996 701	69.00
Cable for Opto to USB	0996 705	132.00
USB-keyboard interface cable Opto RS 232	0997 770	225.00



1260 DIGI-MET® Depth gauges



DIN
862

Specification

- Stainless steel
- LCD display 6 mm
- DIN 862
- Locking screw
- Straight measuring rod

Electronic functions

- ON/OFF switch
- **QuickStart** Electronic
- **QuickLock** Function
- Zero setting at any position
- mm/inch conversion
- Variable data output
RS 232 + Digimatic + USB

Shipment

- Wooden case

			Measuring range		Base length		Reading		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch		
			150	6	100	4	0.01	.005	1260 716	295.00
▪			200	8	100	4	0.01	.0005	1260 718	335.00
▪			300	12	150	6	0.01	.0005	1260 722	376.00
▪			500	20	150	6	0.01	.0005	1260 728	432.00
▪			1000	39	250	10	0.01	.0005	1260 734	1,230.00

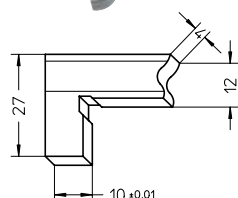
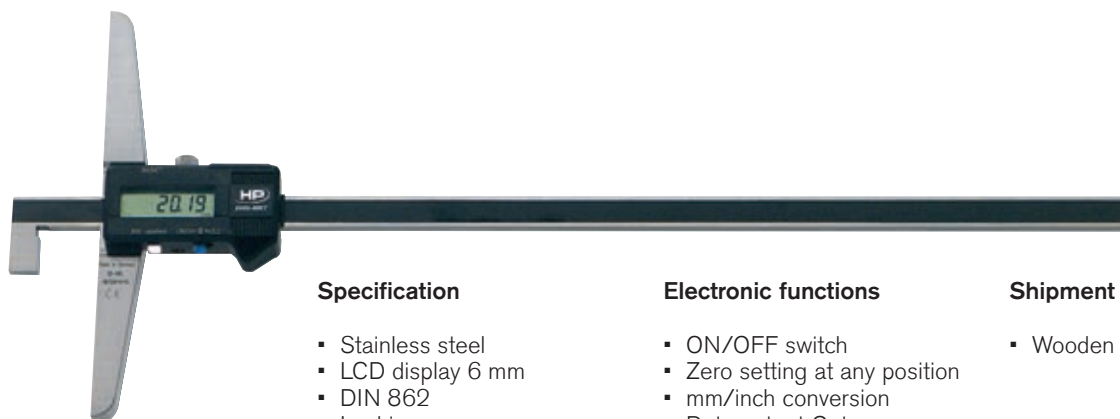
Accessories

	Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable for USB, incl. Software	1998 720	64.00
Cable for RS 232	1997 501	44.90
Cable for Digimatic	1998 501	44.90



0275 DIGI-MET® Depth gauges

HP



Specification

- Stainless steel
- LCD display 6 mm
- DIN 862
- Locking screw
- L shaped measuring rod
- Larger measuring ranges are available upon request

Electronic functions

- ON/OFF switch
- Zero setting at any position
- mm/inch conversion
- Data output Opto RS 232
- Hold Function

Shipment

- Wooden case

			Measuring range		Base length		Reading		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch		
▪	▪		300	12	150	6	0.01	.0005	0275 701	375.00
▪	▪		500	20	150	6	0.01	.0005	0275 702	452.00

Accessories

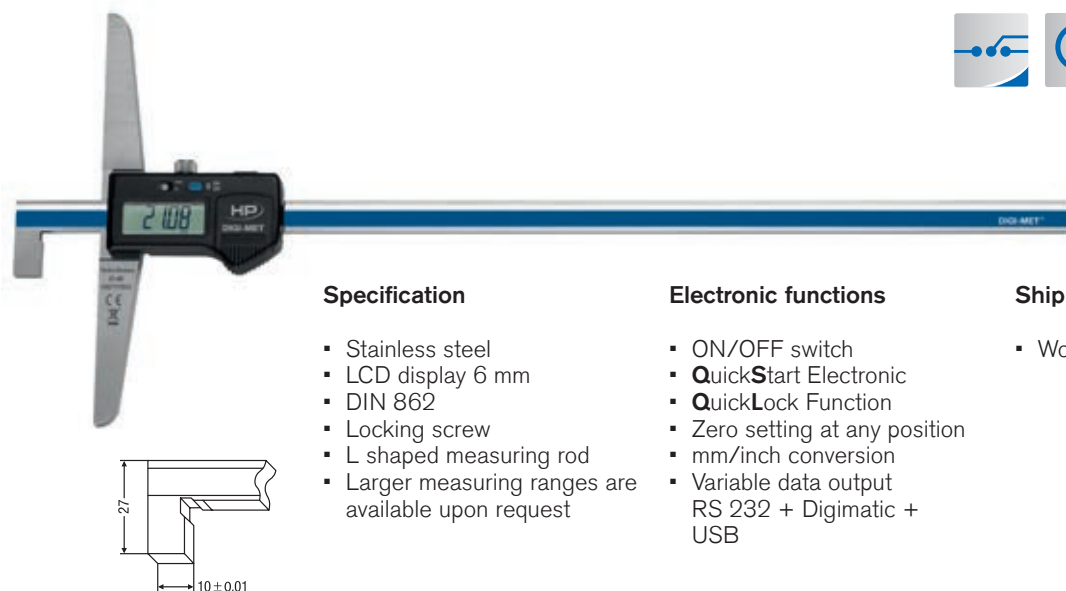
	Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable for Opto to RS 232	0996 701	69.00
Cable for Opto to USB	0996 705	132.00
USB-keyboard interface cable Opto RS 232	0997 770	225.00





1262 DIGI-MET® Depth gauges

HP



DIN
862

Specification

- Stainless steel
- LCD display 6 mm
- DIN 862
- Locking screw
- L shaped measuring rod
- Larger measuring ranges are available upon request

Electronic functions

- ON/OFF switch
- **QuickStart** Electronic
- **QuickLock** Function
- Zero setting at any position
- mm/inch conversion
- Variable data output RS 232 + Digimatic + USB

Shipment

- Wooden case

			Measuring range		Base length		Reading		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch		
▪	▪		300	12	150	6	0.01	.0005	1262 722	386.00
▪	▪		500	20	150	6	0.01	.0005	1262 728	448.00

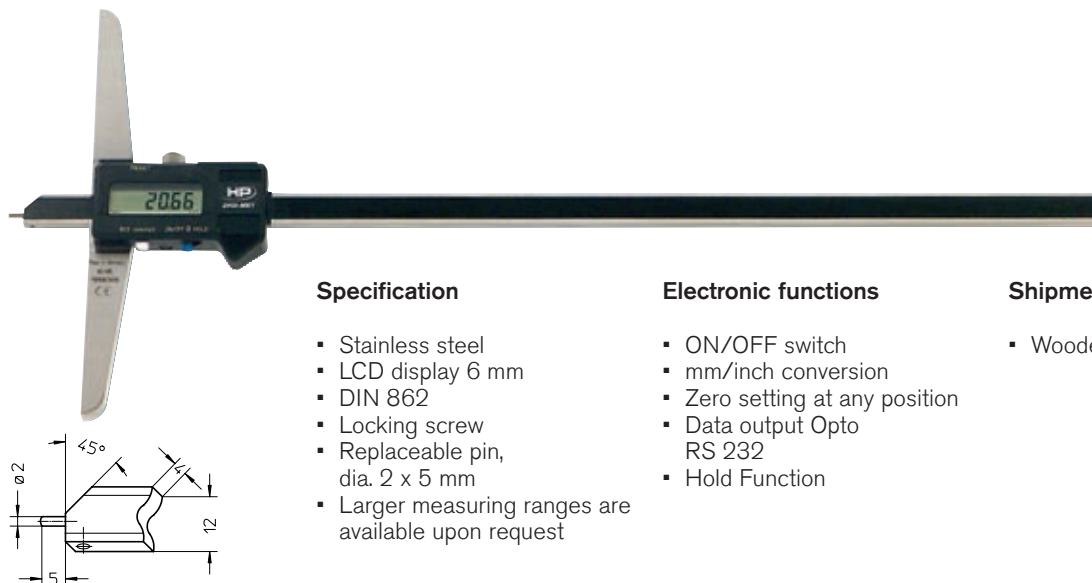
Accessories

	Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable for USB, incl. Software	1998 720	64.00
Cable for Opto to RS 232	1997 501	44.90
Cable for Digimatic	1998 501	44.90



0276 DIGI-MET® Depth gauges

HP



Specification

- Stainless steel
- LCD display 6 mm
- DIN 862
- Locking screw
- Replaceable pin, dia. 2 x 5 mm
- Larger measuring ranges are available upon request

Electronic functions

- ON/OFF switch
- mm/inch conversion
- Zero setting at any position
- Data output Opto RS 232
- Hold Function

Shipment

- Wooden case

			Measuring range		Base length		Reading		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch		
▪	▪		200	8	100	4	0.01	.0005	0276 700	351.00
▪	▪		300	12	150	6	0.01	.0005	0276 701	394.00
Accessories									Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032									0220 704	3.50
Cable for Opto to RS 232									0996 701	69.00
Cable for Opto to USB									0996 705	132.00
USB-keyboard interface cable Opto RS 232									0997 770	225.00

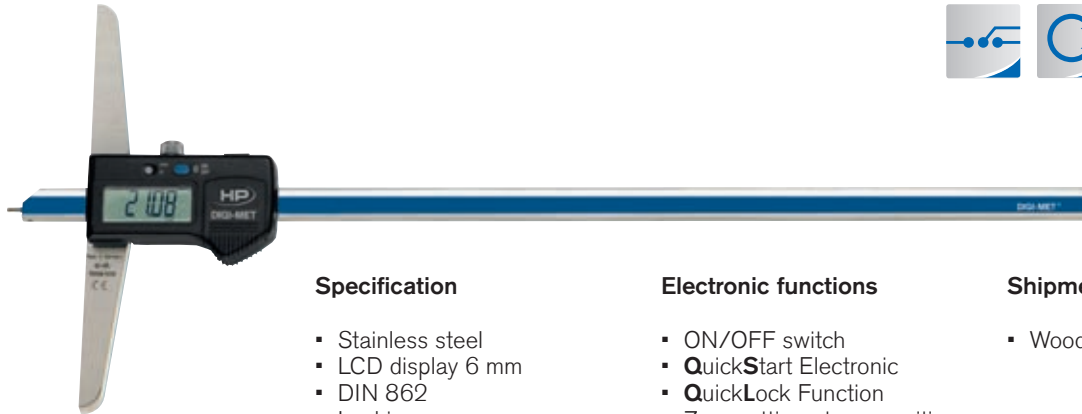
Replacement measuring pin for 0276

HP

			Ref. No.	List price Euro
▪			0276 711	5.70

1264 DIGI-MET® Depth gauges

HP



DIN
862

Specification

- Stainless steel
- LCD display 6 mm
- DIN 862
- Locking screw
- Replaceable pin, dia. 2 x 5 mm
- Larger measuring ranges are available upon request

Electronic functions

- ON/OFF switch
- **QuickStart** Electronic
- **QuickLock** Function
- Zero setting at any position
- mm/inch conversion
- Variable data output RS 232 + Digimatic + USB

Shipment

- Wooden case

			Measuring range		Base length		Reading		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch		
▪	▪		200	8	100	6	0.01	.0005	1264 722	364.00
▪	▪		300	12	150	6	0.01	.0005	1264 728	406.00

Accessories

	Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable for USB, incl. Software	1998 720	64.00
Cable for RS 232	1997 501	44.90
Cable for Digimatic	1998 501	44.90

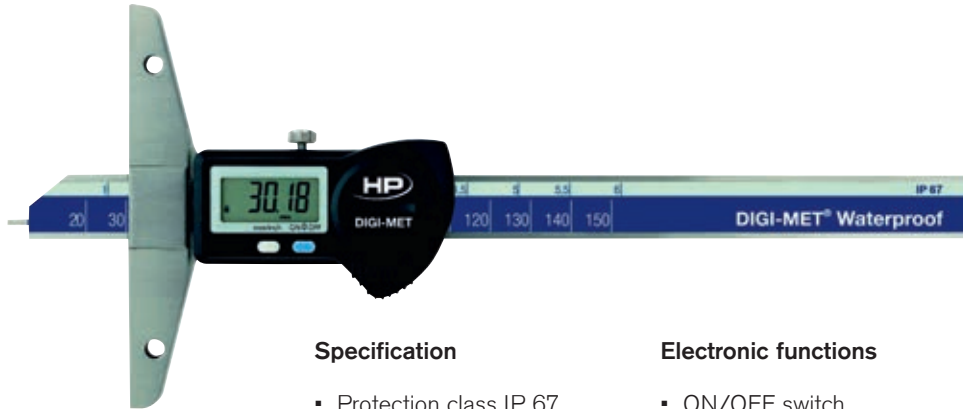


1271 DIGI-MET® Depth gauges

HP



DIN
862



Specification

- Protection class IP 67
- Measuring system is insensitive to cooling agents and dust
- Stainless steel
- DIN 862
- Locking screw
- LCD display 7.5 mm
- Measuring pin dia. 1.5 mm

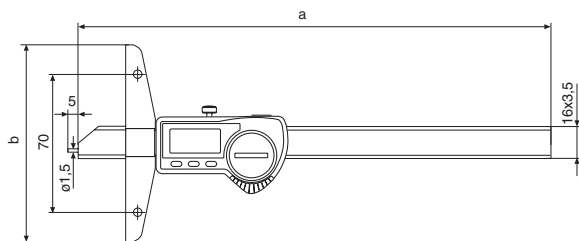
Electronic functions

- ON/OFF switch
- QuickLock Function zero position is protected against operating error
- Zero setting at any position
- mm/inch conversion

Shipment

- Wooden case

			Measuring range		Base length		Reading		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch		
■	■		150	6	100	4	0.01	.0005	1271 416	348.00
■	■		300	12	150	6	0.01	.0005	1271 422	427.00
■	■		500	20	150	6	0.01	.0005	1271 428	491.00



Dimensions	a	b
150 mm	234	100
300 mm	384	150
500 mm	584	150

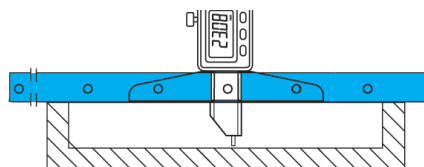
Accessories

Battery, 3V-Lithium, CR 2032

Ref. No.	List price Euro
0220 704	3.50

Extension depth attachment base

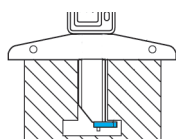
HP



			Depth attachment base length mm	Ref. No.	List price Euro
■			200	1271 451	80.00
■			300	1271 452	92.00

Measuring insert for distance measurements

HP



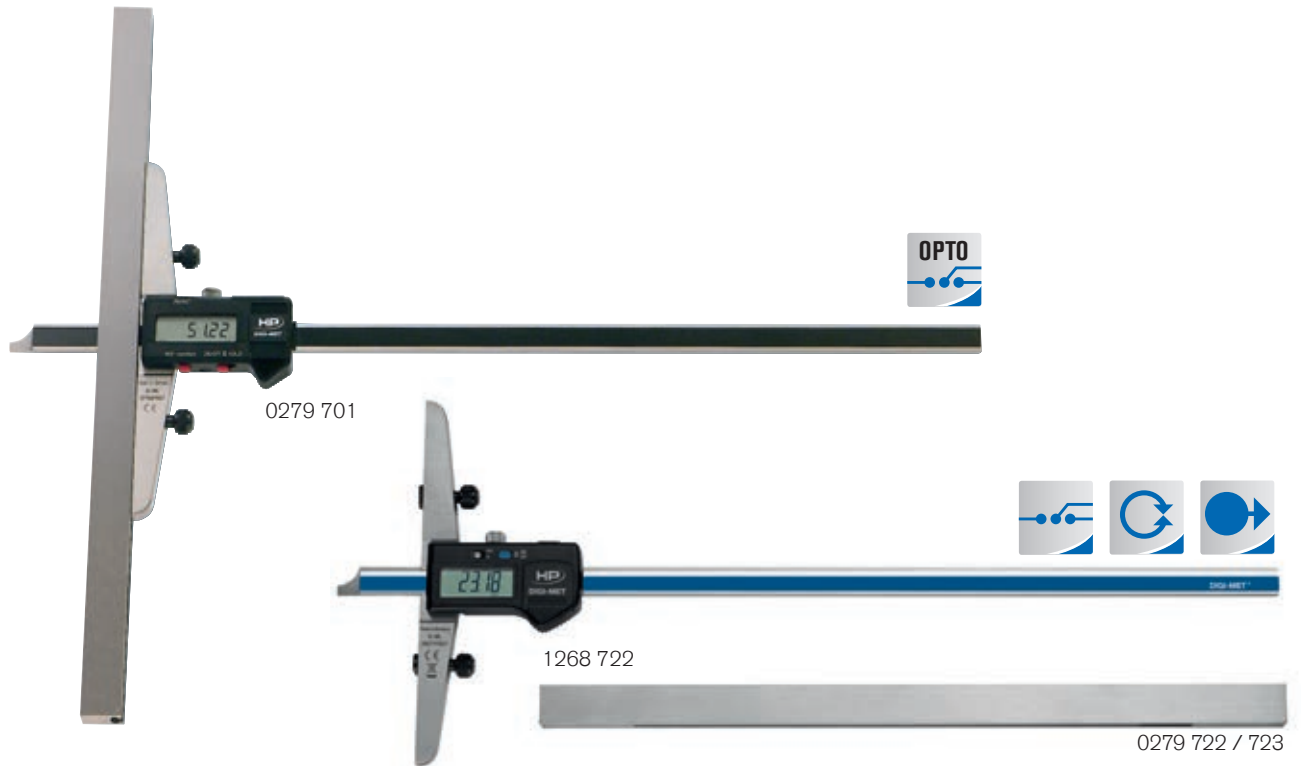
- To be attached to the measuring pin

			Ref. No.	List price Euro
■			1271 455	34.60





0279 / 1268 DIGI-MET® Depth gauges



Specification

- Stainless steel
- LCD display 6 mm
- Locking screw
- The sliding measuring base must be ordered separately

Electronic functions

- ON/OFF switch
- Zero setting at any position
- mm/inch conversion
- Data output Opto RS 232
- Hold Function

Shipment

- Wooden case
- Without sliding measuring bridge (optional)

			Measuring range		Base length		Reading		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch		
▪			300	12	150	6	0.01	.0005	0279 701	353.00
▪			500	20	150	6	0.01	.0005	0279 703	416.00
With QuickStart Electronic + QuickLock Function										
			300	12	150	6	0.01	.0005	1268 722	386.00
			500	20	150	6	0.01	.0005	1268 728	438.00

Accessories

	Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032	0220 704	3.50

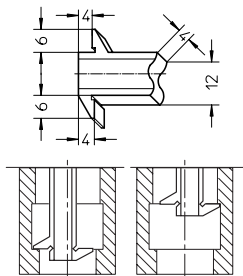
Sliding measuring base, stainless steel



		Dimensions mm	Ref. No.	List price Euro
▪		300 x 16	0279 722	244.00
▪		400 x 16	0279 723	256.00



0278 DIGI-MET® Offset depth gauges



Specification

- Stainless steel
- LCD display 6 mm
- Factory standard
- Locking screw
- Offset measuring rod
- Larger measuring ranges are available upon request

Electronic functions

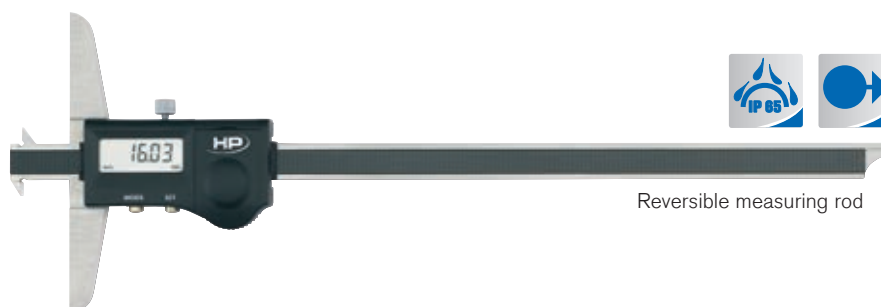
- ON/OFF switch
- Zero setting at any position
- mm/inch conversion
- Data output Opto RS 232 - only for gauges 0278 700 to 0278 702
- Hold Function

Shipment




- Wooden case



			Measuring range		Base length		Reading		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch		
▪	▪		200	8	100	4	0.01	.0005	0278 700	379.00
▪	▪		300	12	150	6	0.01	.0005	0278 701	478.00
▪	▪		500	20	150	6	0.01	.0005	0278 702	578.00



Reversible measuring rod

			Measuring range		Base length		Reading		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch		
Protection class IP65, reversible measuring rod:										
			200	8	100	4	0.01	.0005	0278 720	421.00
			300	12	150	6	0.01	.0005	0278 721	528.00

Accessories

	Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable for Opto to RS 232	0996 701*	69.00
Cable for Opto to USB	0996 705*	132.00
USB-keyboard interface cable Opto RS 232	0997 770	225.00

* Only for Ref. No. 0278 700 - 0278 702



1266 DIGI-MET® Offset depth gauge

HP



Specification

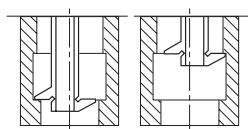
- Stainless steel
- LCD display 8.5 mm
- Factory standard
- Housing and operating keys have an excellent chemical resistance
- Locking screw

Electronic functions

- ON/OFF switch
- **QuickStart** Electronic
- **QuickLock** Function
- Zero setting at any position
- mm/inch conversion
- Variable data output
RS 232 + Digimatic + USB

Shipment

- Wooden case



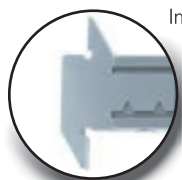
			Measuring range		Base length		Reading		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch		
▪	▪		300	12	150	6	0.01	.0005	1266 722	458.00
▪	▪		500	20	150	6	0.01	.0005	1266 728	576.00

Accessories

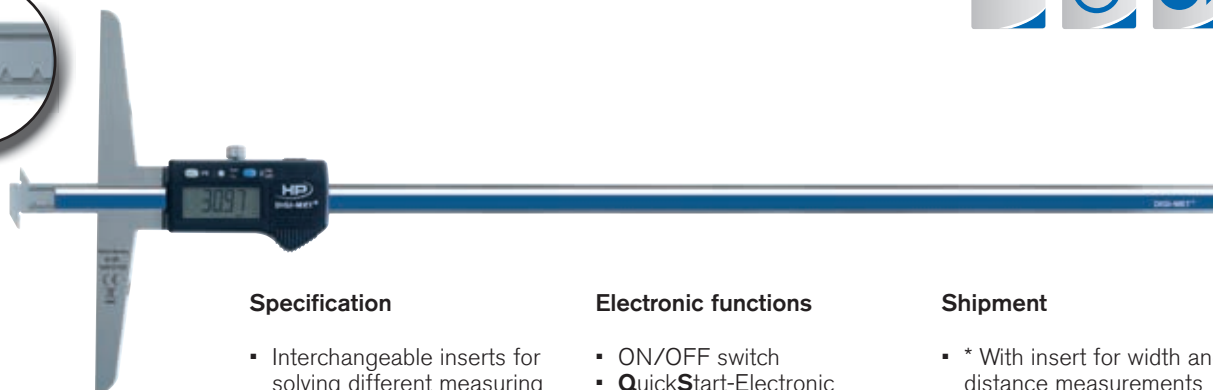
	Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable for USB, incl. Software	1998 720	64.00
Cable for RS 232	1997 501	44.90
Cable for Digimatic	1998 501	44.90



1279 DIGI-MET® Depth gauges with interchangeable inserts

HP

Interchangeable inserts



Specification

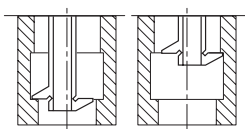
- Interchangeable inserts for solving different measuring tasks
- Measuring base can be attached (optional, see accessories)
- Stainless steel
- Inductive measuring system resistant to damp and sweat
- Factory standard

Electronic functions

- ON/OFF switch
- **QuickStart**-Electronic
- **QuickLock**-Function
- Zero setting at any position
- mm/inch-conversion
- Variable data output RS 232 + Digimatic + USB
- PRESET Function (setting a numerical value)

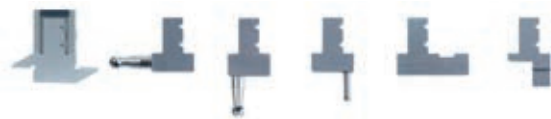
Shipment

- * With insert for width and distance measurements Ref. No. 1279 780
- Wooden case
- [More inserts and measuring base optional](#)



			Measuring range		Base length		Reading		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch		
▪	▪		300	12	150	6	0.01	.0005	1279 722	595.00
▪	▪		500	20	150	6	0.01	.0005	1279 728	820.00

Inserts see next page



Accessories

	Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable for USB, incl. Software	1998 720	64.00
Cable for RS 232	1997 501	44.90
Cable for Digimatic	1998 501	44.90

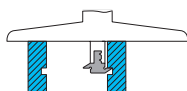
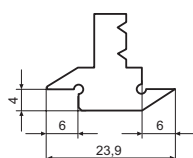




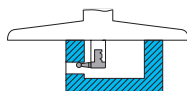
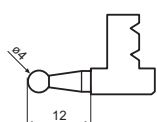
1279 Interchangeable inserts made of stainless steel, hardened



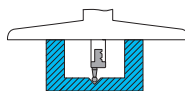
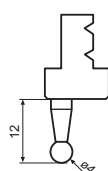
1279 780*



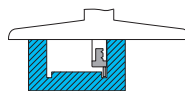
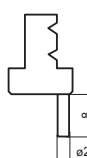
1279 781



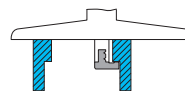
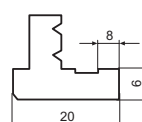
1279 782



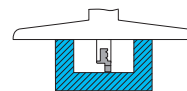
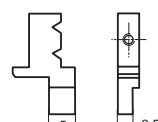
1279 783






1279 784



1279 785



				Ref. No.	List price Euro
			Insert for width and distance measurements*	1279 780*	102.00
			Insert with ball, angled	1279 781	102.00
			Insert with ball, straight	1279 782	102.00
			Insert with measuring pin	1279 783	102.00
			Insert with hook	1279 784	102.00
			Insert with straight measuring rod	1279 785	102.00

* Standard insert included in the delivery of the basic instrument

Sliding measuring base made of stainless steel



			Dimensions mm	Ref. No.	List price Euro
			300 x 16	0279 722	244.00
			400 x 16	0279 723	256.00



0277 DIGI-MET® Small depth gauge

HP

Specification

- Stainless steel
- LCD display 6 mm
- DIN 862
- Measuring pin, dia. 2 mm

Electronic functions

- ON/OFF switch
- Zero setting at any position
- mm/inch conversion
- Data output Opto RS 232
- Hold Function

Shipment

- Wooden case

			Measuring range		Base length		Reading		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch		
▪			25	1	48	1.89	0.01	.0005	0277 701	224.00

Accessories

	Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable for Opto to RS 232	0996 701	69.00
Cable for Opto to USB	0996 705	132.00
USB-keyboard interface cable Opto RS 232	0997 770	225.00





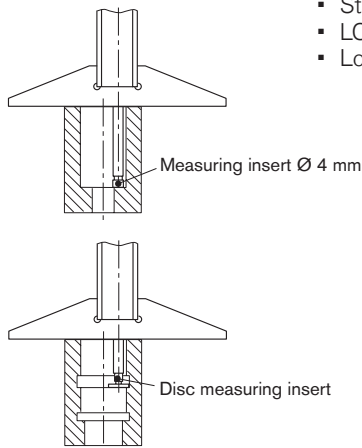
1276 DIGI-MET® Depth gauge

HP



DIN
862

Example of use



Specification

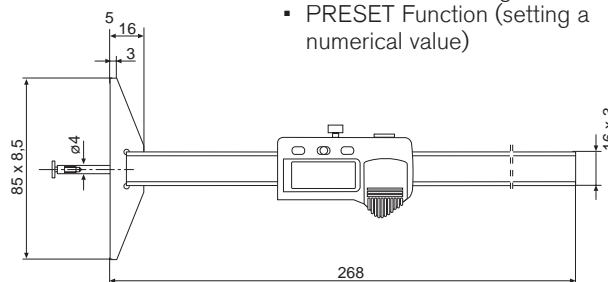
- Stainless steel
- LCD display 6 mm
- Locking screw

Electronic functions

- ON/OFF switch
- QuickStart Electronic
- QuickLock Function
- Zero setting at any position
- mm/inch conversion
- Variable data output
RS 232 + Digimatic + USB
- Reversal of counting direction
- PRESET Function (setting a numerical value)

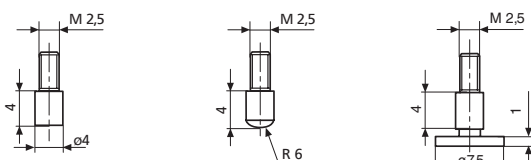
Shipment

- Wooden case



	Measuring range		Base length		Reading		Ref. No.	List price Euro
	mm	inch	mm	inch	mm	inch		
■	100	4	85	3.4	0.01	.0005	1276 514	464.00

Standard accessories



1276 591

Accessories

	Ref. No.	List price Euro
Disc type measuring insert dia. 7.5 x 1 mm	1276 591	16.80
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable for USB	1998 720	64.00
Cable for RS 232	1997 501	44.90
Cable for Digimatic	1998 501	44.90



1278 DIGI-MET® Depth gauges for one-handed operation



Specification

- Stainless steel
- Locking screw
- Factory standard
- Constant measuring force through spring pressure
- Interchangeable measuring inserts, M 2.5 mm thread
- Included in delivery: ball measuring inserts dia. 1/8" for depth measurement
- All measuring inserts with a M 2.5 mm thread size can be used
- Measuring inserts for **core hole bores** (for additional costs) see table

Electronic functions

- ON/OFF switch
- QuickStart Electronic
- QuickLock Function
- Zero setting at any position
- mm/inch conversion
- Variable data output RS 232 + Digimatic + USB
- PRESET Function (setting a numerical value)

Shipment

- Wooden case

			Measuring range		Reading		Ref. No.	List price Euro
			mm	inch	mm	inch		
▪			0 - 60	0 - 2.4	0.01	.0005	1278 505	707.00
▪			0 - 100	0 - 4.0	0.01	.0005	1278 508	761.00

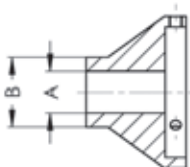
Measuring inserts for core hole bores

			Thread size mm	Core diameter mm	Measuring insert diameter mm	Ref. No.	List price Euro
▪			M 16 x 1.5	14.38	14.32	1278 923	25.30
▪			M 16 x 1	14.92	14.87	1278 924	25.30
			M 12 x 1.25	10.65	10.59	1278 936	25.30
			M 12 x 1	10.92	10.87	1278 938	25.30
			M 10 x 1	8.92	8.87	1278 940	25.30
			M 10 x 0.75	9.19	9.13	1278 942	25.30
			M 8 x 1	6.92	6.87	1278 944	25.30
			M 8 x 0.75	7.19	7.14	1278 946	25.30
			M 6 x 0.75	5.19	5.14	1278 948	25.30
			M 5 x 0.5	4.46	4.41	1278 950	25.30
			M 16	13.84	13.79	1278 952	25.30
			M 12	10.11	10.05	1278 954	25.30
			M 10	8.38	8.32	1278 956	25.30
			M 8	6.65	6.59	1278 958	25.30
			M 6	4.92	4.87	1278 960	25.30
			M 5	4.13	4.08	1278 962	25.30
			16 pieces - set			1278 930	370.00

Measuring inserts
for core hole bores



Reduction



Reductions

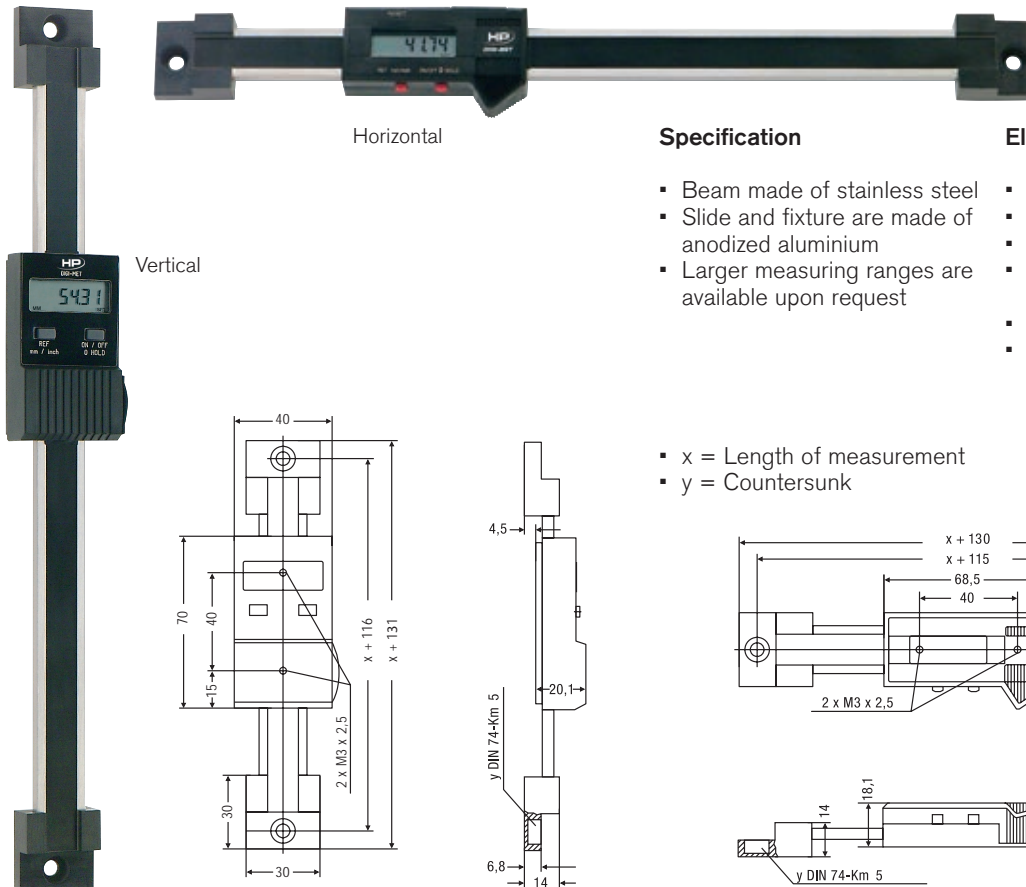
Type	Dim. A mm	Dim. B mm	Ref. No.	List price Euro
6/12	dia. 6	dia. 12	1278 912	102.00
9.5/16	dia. 9.5	dia. 16	1278 916	102.00
15/20	dia. 15	dia. 20	1278 920	102.00





0273 DIGI-MET® Mounting scales

HP






Specification

- Beam made of stainless steel
- Slide and fixture are made of anodized aluminium
- Larger measuring ranges are available upon request

Electronic functions

- ON/OFF switch
- Zero setting at any position
- mm/inch conversion
- Data output Opto RS 232
- Hold Function
- PRESET Function (setting a numerical value)

- x = Length of measurement
- y = Countersunk

			Measuring range		LCD display mm	Reading		Ref. No.	List price Euro
			mm	inch		mm	mm		
Horizontal:									
▪			150	6	6	0.01	.0005	0273 731	161.00
▪			200	8	6	0.01	.0005	0273 732	168.00
▪			300	12	6	0.01	.0005	0273 735	171.00
▪			450	18	6	0.01	.0005	0273 738	218.00
▪			600	24	6	0.01	.0005	0273 741	264.00
			800	31	6	0.01	.0005	0273 745	463.00
			1000	39	6	0.01	.0005	0273 746	504.00
Vertical:									
▪			150	6	6	0.01	.0005	0273 751	218.00
			200	8	6	0.01	.0005	0273 752	227.00
			300	12	6	0.01	.0005	0273 755	230.00
			450	18	6	0.01	.0005	0273 758	278.00
			600	24	6	0.01	.0005	0273 761	326.00
			800	31	6	0.01	.0005	0273 765	565.00
			1000	39	6	0.01	.0005	0273 766	607.00

Accessories

Accessories	Ref. No.	List price
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable for Opto to RS 232	0996 701	69.00
Cable for Opto to USB	0996 705	132.00
USB-keyboard interface cable Opto RS 232	0997 770	225.00



0003 Wooden cases with foam padding

HP



Standard packaging:
Cardboard box with
cutout insert

			Measuring range mm	Jaw length mm	Internal dimensions L x W x H mm	Ref. No.	List price Euro
For calipers <i>with knife points</i> :							
▪			160	40	250 x 90 x 20	0003 219	6.90
▪			200	80	315 x 130 x 20	0003 220	8.30
▪			250	80	370 x 145 x 20	0003 221	10.40
▪			300	90	435 x 175 x 20	0003 222	14.40
▪			400	125	590 x 220 x 20	0003 225	31.50
▪			400	150	590 x 250 x 20	0003 226	37.60
▪			400	200	590 x 300 x 20	0003 227	34.40
▪			500	150	690 x 250 x 21	0003 229	43.10
▪			500	200	700 x 315 x 21	0003 230	44.10
▪			500	250	700 x 350 x 21	0003 231	45.10
▪			600	150	790 x 250 x 21	0003 233	54.00
▪			600	200	790 x 300 x 21	0003 234	60.00
▪			800	150	1000 x 270 x 21	0003 237	59.00
▪			800	200	1000 x 320 x 21	0003 238	60.00
▪			800	300	1000 x 420 x 21	0003 240	78.00
▪			1000	150	1200 x 270 x 21	0003 243	79.00
▪			1000	200	1200 x 320 x 21	0003 244	88.00
▪			1000	300	1230 x 420 x 21	0003 246	106.00
▪			1250	200	1520 x 380 x 25	0003 249	103.00
▪			1250	300	1520 x 440 x 25	0003 250	131.00
▪			1500	200	1800 x 380 x 25	0003 252	148.00
▪			1500	300	1800 x 440 x 25	0003 253	176.00
▪			2000	200	2300 x 380 x 25	0003 255	270.00
▪			2000	300	2300 x 460 x 25	0003 256	256.00
▪			3000	200	3310 x 400 x 25	0003 258	286.00
▪			3000	300	3310 x 460 x 25	0003 259	330.00



0003 Wooden cases with foam padding

			Measuring range mm	Jaw length mm	Internal dimensions L x W x H mm	Ref. No.	List price Euro
For calipers <i>without</i> knife points:							
▪			160	40	250 x 90 x 20	0003 219	6.90
▪			200	80	315 x 130 x 20	0003 220	8.30
▪			250	80	370 x 145 x 20	0003 221	10.40
▪			300	90	435 x 175 x 20	0003 222	14.40
▪			300	150	435 x 205 x 20	0003 223	16.10
▪			400	125	610 x 180 x 20	0003 224	24.20
▪			400	150	590 x 220 x 20	0003 225	31.50
▪			400	200	590 x 250 x 20	0003 226	37.60
▪			500	150	690 x 200 x 20	0003 228	41.90
▪			500	200	690 x 250 x 21	0003 229	43.10
▪			500	250	700 x 315 x 21	0003 230	44.10
▪			600	150	790 x 200 x 21	0003 232	45.10
▪			600	200	790 x 250 x 21	0003 233	54.00
▪			600	300	810 x 400 x 21	0003 235	65.00
▪			800	150	1000 x 220 x 21	0003 236	55.00
▪			800	200	1000 x 270 x 21	0003 237	59.00
▪			800	300	1000 x 380 x 21	0003 239	67.00
▪			800	400	1100 x 480 x 21	0003 241	78.00
▪			1000	150	1200 x 220 x 21	0003 242	74.00
▪			1000	200	1200 x 270 x 21	0003 243	79.00
▪			1000	300	1200 x 380 x 21	0003 245	98.00
▪			1000	500	1300 x 600 x 25	0003 247	121.00
▪			1250	200	1520 x 310 x 25	0003 248	103.00
▪			1250	300	1520 x 380 x 25	0003 249	103.00
▪			1500	200	1800 x 310 x 25	0003 251	137.00
▪			1500	300	1800 x 380 x 25	0003 252	148.00
▪			2000	200	2300 x 310 x 25	0003 254	229.00
▪			2000	300	2300 x 380 x 25	0003 255	270.00
▪			3000	200	3310 x 310 x 25	0003 257	275.00
▪			3000	300	3310 x 400 x 25	0003 258	286.00



EXPERIENCE HAS TRADITION AND PROSPECTS

Even if it takes a little while, with us it will be right in the end – for example, both the successful HELIOS and PREISSER brands combined have 175 years of competence; resulting in HELIOS•PREISSER which offers wide ranging and highly interesting perspectives, then:

- the traditional premium quality is an irrevocable part of the brand,
- we offer a fascinating wide and deep range of products regarding hand measuring instruments,
- we are tangible medium sized company who are focused on the wishes of our customers from fast delivery times, special orders and to a fair price/performance ratio.

The two traditional brands which have formed HELIOS•PREISSER have a common goal; to always offer the maximum. Developed by professionals for professionals; precise hand measuring instruments that you need to succeed



CHAPTER 2 MICROMETERS



External micrometers	2/2
Digital micrometers	2/8
Precision micrometers with dial reading	2/11
Micrometers for specific measuring tasks	2/12
Setting standards for micrometers	2/15
Precision micrometers for thread flank measurement	2/16
Precision micrometers for gear width measurement	2/19
Internal micrometers	2/20
Digital internal micrometers / Internal measuring pistol	2/26
Depth micrometers	2/30





0800 External micrometers

HP

DIN
863-1



Specification

- DIN 863-1
- Reading: 0.01 mm
- Reading parts are satin chrome plated
- Locking lever
- Ratchet stop
- Carbide measuring faces
- Thermally insulated

Shipment

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

			Measuring range mm	Spindle dia. mm	Thimble dia. mm	Pitch mm	Ref. No.	List price Euro
▪			0 - 25	6.5	17	0.5	0800 501	16.90
▪			25 - 50	6.5	17	0.5	0800 502	20.60
▪			50 - 75	6.5	17	0.5	0800 503	23.60
▪			75 - 100	6.5	17	0.5	0800 504	27.90

0800 Set of external micrometers

HP

DIN
863-1



Specification

- Includes 4 external micrometers
- Setting standards 25 mm + 50 mm + 75 mm

Shipment

- Wooden case

			Measuring range mm	Spindle dia. mm	Thimble dia. mm	Pitch	Ref. No.	List price Euro
▪			0 - 100	6.5	17	0.5	0800 513	99.00

0807 Holder for external micrometers

HP



Specification

- With heavy cast iron base
- Vertically rotating and lockable

Shipment

- Cardboard box

			For measuring range mm	Ref. No.	List price Euro
▪			0 - 300	0807 101	51.00





0806 External micrometers

HP



DIN
863-1

Specification

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

Shipment

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

			Measuring range mm	Spindle dia. mm	Thimble dia. mm	Pitch mm	Ref. No.	List price Euro
▪			0 - 25	6.5	17.5	0.5	0806 521	41.90
▪			25 - 50	6.5	17.5	0.5	0806 522	66.00
▪			50 - 75	6.5	17.5	0.5	0806 523	82.00
▪			75 - 100	6.5	17.5	0.5	0806 524	94.00
			100 - 125	6.5	17.5	0.5	0806 525	128.00
			125 - 150	6.5	17.5	0.5	0806 526	144.00
			150 - 175	6.5	17.5	0.5	0806 527	160.00
			175 - 200	6.5	17.5	0.5	0806 528	176.00

0806 Set of external micrometers

HP



DIN
863-1

Specification

- Includes 4 external micrometers
- Setting standards 25 mm + 75 mm or 125 mm + 175 mm

Shipment

- Wooden case

			Measuring range mm	Spindle dia. mm	Thimble dia. mm	Pitch mm	Ref. No.	List price Euro
▪			0 - 100	6.5	17.5	0.5	0806 540	247.00
▪			100 - 200	6.5	17.5	0.5	0806 542	543.00



0810 External micrometers

HP

DIN
863-1



Specification

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

Shipment

- Wooden case
- Without setting standard

			Measuring range mm	Spindle dia. mm	Thimble dia. mm	Pitch mm	Ref. No.	List price Euro
■			0 - 25	8	30	1	0810 501	211.00
■			25 - 50	8	30	1	0810 502	233.00
■			50 - 75	8	30	1	0810 503	251.00
■			75 - 100	8	30	1	0810 504	268.00

0815 External micrometers with deep frame

HP

DIN
863-1



Specification

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

Shipment

- Wooden case
- Without setting standard

			Meas. range x frame depth mm	Spindle dia. mm	Thimble dia. mm	Pitch mm	Max. error µm	Ref. No.	List price Euro
			0 - 25 x 100	8	24	1	3	0815 510	266.00
			0 - 25 x 150	6.5	24	1	5	0815 514	280.00
			0 - 25 x 250	6.5	24	1	7	0815 518	350.00
			0 - 50 x 50	8	24	1	3	0815 530	304.00
			0 - 50 x 100	8	24	1	4	0815 534	458.00
			50 - 100 x 100	8	24	1	4	0815 540	489.00



0816 External micrometers

HP

DIN
863-1



Specification

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

Shipment

- Wooden case
- Without setting standard

			Measuring range mm	Spindle dia. mm	Thimble dia. mm	Pitch mm	Ref. No.	List price Euro
▪			0 - 50	8	24	1	0816 501	259.00
▪			50 - 100	8	24	1	0816 502	319.00
▪			100 - 150	8	24	1	0816 503	368.00
▪			150 - 200	8	24	1	0816 504	420.00
			200 - 250	8	24	1	0816 505	456.00
			250 - 300	8	24	1	0816 506	508.00
			300 - 350	10	24	1	0816 507*	724.00
			350 - 400	10	24	1	0816 508*	745.00
			400 - 450	10	24	1	0816 509*	809.00
			450 - 500	10	24	1	0816 510*	853.00
			500 - 550	10	24	1	0816 511*	939.00
			550 - 600	10	24	1	0816 512*	1,004.00



0817 External micrometers

HP

DIN
863-1



Specification

- DIN 863-1
- Reading 0.01 mm without the addition of thread pitch 1 mm
- Reading parts are satin chrome plated
- Spindle adjustment 50 mm
- Gauge block extension 50 mm
- Locking ring
- Ratchet stop
- Carbide measuring faces
- Thermally insulated
- Robust coated light alloy frame

Shipment

- Wooden case
- Without setting standard

			Measuring range mm	Spindle dia. mm	Thimble dia. mm	Pitch mm	Max. error µm	Ref. No.	List price Euro
▪			200 - 300	10	24	1	6	0817 512	1,024.00
▪			300 - 400	10	24	1	7	0817 514	1,066.00
▪			400 - 500	10	24	1	8	0817 516	1,189.00
▪			500 - 600	10	24	1	9	0817 518	1,348.00
			600 - 700	10	24	1	9	0817 520	1,513.00
		▪	700 - 800	10	24	1	9	0817 522	1,678.00
		▪	800 - 900	10	24	1	10	0817 524	1,842.00
		▪	900 - 1000	10	24	1	10	0817 526	2,038.00
		▪	1000 - 1100	10	24	1	11	0817 528	2,244.00
		▪	1100 - 1200	10	24	1	11	0817 530	2,460.00
		▪	1200 - 1300	10	24	1	12	0817 532	2,691.00
		▪	1300 - 1400	10	24	1	12	0817 534	2,985.00
		▪	1400 - 1500	10	24	1	13	0817 536	3,180.00
		▪	1500 - 1600	10	24	1	18	0817 538	4,981.00
		▪	1600 - 1700	10	24	1	19	0817 540	5,290.00
		▪	1700 - 1800	10	24	1	20	0817 542	5,691.00
		▪	1800 - 1900	10	24	1	21	0817 544	6,030.00
		▪	1900 - 2000	10	24	1	22	0817 546	6,406.00

0817 Replacement gauge block extension

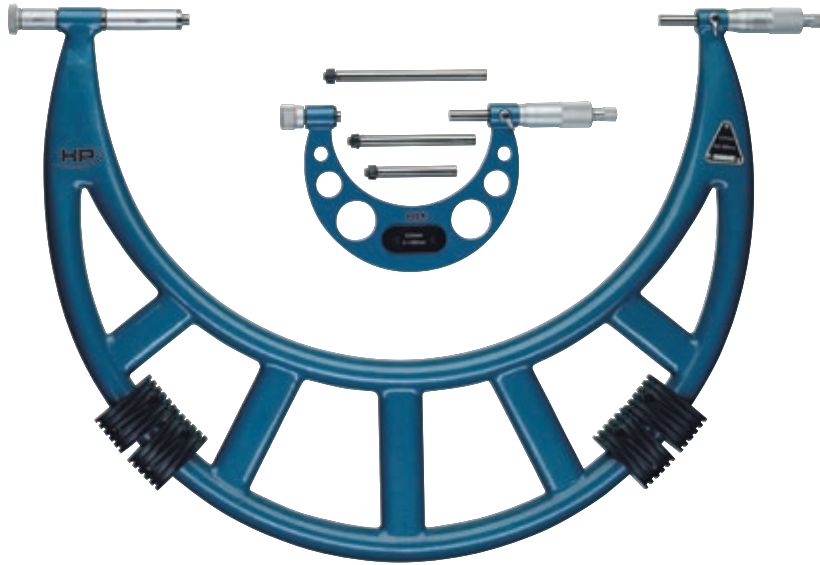
HP

			Length mm	Ref. No.	List price Euro
▪			Exchangeable for all measuring ranges	0817 910	160.00



0819 External micrometers with interchangeable inserts

HP



Specification

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

Shipment

- Includes a setting standard
- Wooden case

			Measuring range mm	Spindle dia. mm	Thimble dia. mm	Pitch mm	Ref. No.	List price Euro
▪			0 - 100	8	20	0.5	0819 501*	268.00
▪			100 - 200	8	20	0.5	0819 503*	358.00
▪			200 - 300	8	20	0.5	0819 510*	386.00
▪			300 - 400	8	24	0.5	0819 511	509.00
			400 - 500	8	24	0.5	0819 512	539.00
			500 - 600	8	24	0.5	0819 513	796.00
			600 - 700	8	24	0.5	0819 514	881.00
		▪	700 - 800	8	24	0.5	0819 515	1,005.00
		▪	800 - 900	8	24	0.5	0819 516	1,130.00
		▪	900 - 1000	8	24	0.5	0819 517	1,166.00
		▪	1000 - 1200	8	24	1.0	0819 519	1,264.00
		▪	1200 - 1400	8	24	1.0	0819 521	1,370.00
		▪	1400 - 1600	8	24	1.0	0819 523	1,604.00
		▪	1600 - 1800	8	24	1.0	0819 525	1,842.00
		▪	1800 - 2000	8	24	1.0	0819 527	2,119.00



0912 Digital micrometers

HP



DIN
863-1

Specification

- DIN 863-1
- Protection class IP 54
- Reading: 0.001 mm / .00005 inch
- Locking lever
- Ratchet stop
- Carbide measuring faces
- Thermally insulated

Electronic functions

- ON/OFF switch
- Automatic OFF
- Zero setting at any position
- mm/inch conversion

Shipment

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

			Measuring range		Spindle dia. mm	Pitch mm	Ref. No.	List price Euro
			mm	inch				
▪			0 - 25	0 - 1	6.5	0.5	0912 501	73.00
▪			25 - 50	1 - 2	6.5	0.5	0912 502	83.00
▪			50 - 75	2 - 3	6.5	0.5	0912 503	94.00
▪			75 - 100	3 - 4	6.5	0.5	0912 504	108.00
			100 - 125	4 - 5	6.5	0.5	0912 505	119.00
			125 - 150	5 - 6	6.5	0.5	0912 506	130.00
			150 - 175	6 - 7	6.5	0.5	0912 507	140.00
			175 - 200	7 - 8	6.5	0.5	0912 508	151.00

Accessories

Battery 1.5V, type 357

Ref. No.

0220 204

List price Euro

3.00

0912 Set of digital micrometers

HP



DIN
863-1

Shipment

- Includes 4 micrometers
- Includes setting standards 25/50/75 mm
- Wooden case

			Measuring range mm	Spindle dia. mm	Pitch mm	Ref. No.	List price Euro
▪			0 - 100	6.5	0.5	0912 521	390.00



1865 Digital micrometers

HP



Specification

- DIN 863-1
- Reading: 0.001 mm/.00005 inch
- LCD display 7.5 mm
- Locking lever
- Rapid drive
- Carbide measuring faces
- Thermally insulated

Electronic functions

- ON/OFF switch
- **QuickStart** Electronic
- **QuickLock** Function
- Zero setting at any position
- mm/inch conversion
- Absolute/Relative measurement
- Variable data output RS 232 + Digimatic + USB
- PRESET Function (setting a numerical value)

Shipment

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

			Measuring range		Spindle dia. mm	Pitch mm	Ref. No.	List price Euro
			mm	inch				
▪			0 - 25	0 - 1	6.5	0.635	1865 510	176.00
▪			25 - 50	1 - 2	6.5	0.635	1865 513	227.00
▪			50 - 75	2 - 3	6.5	0.635	1865 517	312.00
▪			75 - 100	3 - 4	6.5	0.635	1865 520	360.00

Accessories

	Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable for USB	1998 720	64.00
Cable for RS 232	1997 501	44.90
Cable for Digimatic	1998 501	44.90



0932 DIGI-MET® External micrometers

HP



0932 701



0932 731

Specification

- Factory standard
- Selectable resolution
0.01 mm / 0.001 mm;
0.0005 inch /
0.00005 inch
- LCD display 6 mm
- Positive counting
direction
- Non-rotating spindle
- Linear measuring system
- Locking lever*
- Carbide measuring faces
dia. 8 mm
- Thermally insulated
- Ratchet stop

Electronic functions

- ON/OFF switch
- Zero setting at any position
- mm/inch conversion
- Data output Opto RS 232
- Max/Min value memory
- Enter tolerance value
- Hold Function
- PRESET Function
(setting a numerical value)

Shipment

- Wooden case
- Without setting standard

			Measuring range		Spindle dia. mm	Pitch mm	Ref. No.	List price Euro
			mm	inch				
▪			0 - 25	0 - 1	8	1	0932 701*	379.00
▪			25 - 50	1 - 2	8	1	0932 702*	443.00
▪			50 - 75	2 - 3	8	1	0932 703*	496.00
▪			75 - 100	3 - 4	8	1	0932 704*	540.00
			100 - 125	4 - 5	8	1	0932 705*	647.00
			125 - 150	5 - 6	8	1	0932 706*	702.00
			150 - 175	6 - 7	8	1	0932 707*	760.00
			175 - 200	7 - 8	8	1	0932 708*	820.00
With lifter - retraction stroke 1.5 mm								
▪			0 - 25	0 - 1	8	1	0932 731	463.00
▪			25 - 50	1 - 2	8	1	0932 732	542.00
▪			50 - 75	2 - 3	8	1	0932 733	607.00
▪			75 - 100	3 - 4	8	1	0932 734	661.00

Accessories

	Ref. No.	List price Euro
Battery 3V-Lithium, CR 2032	0220 704	3.50
Cable Opto RS 232	0996 701	69.00
Cable Opto for USB	0996 705	132.00
USB-keyboard interface cable Opto RS 232	0997 770	225.00





0849 Precision dial micrometers

HP



DIN
863-3

Specification

- DIN 863-3
- Reading: 0.01 mm
- Reading on the dial: 1 μ m
- Reading parts are satin chrome plated
- Retraction stroke 1.5 mm
- Spindle made of hardened stainless steel
- Constant measuring force
- Locking lever
- Carbide measuring faces
- Thermally insulated
- Adjustable tolerance markers

Shipment

- Wooden case
- Without setting standard

			Measuring range mm	Spindle dia. mm	Thimble dia. mm	Pitch mm	Ref. No.	List price Euro
▪			0 - 25	7.5	17.5	0.5	0849 501	661.00
▪			25 - 50	7.5	17.5	0.5	0849 502	786.00

0850 Precision dial micrometers

HP



DIN
863-3

Specification

- DIN 863-3
- Reading: 0.01 mm
- Reading on the dial: 1 μ m
- Reading parts are satin chrome plated
- Retraction stroke 1.2 mm
- Locking lever
- Carbide measuring faces
- Constant measuring force
- Thermally insulated
- Spindle made of hardened stainless steel
- Adjustable tolerance markers

Shipment

- incl. dial comparator gauge, reading 0.001 mm
- Wooden case
- Without setting standard

			Measuring range mm	Spindle dia. mm	Thimble dia. mm	Pitch mm	Ref. No.	List price Euro
▪			0 - 25	7.5	17.5	0.5	0850 511	523.00
▪			25 - 50	7.5	17.5	0.5	0850 512	580.00
			50 - 100	7.5	17.5	0.5	0850 514	616.00
			100 - 150	7.5	17.5	0.5	0850 516	659.00
			150 - 200	7.5	17.5	0.5	0850 518	689.00



0822 Disc micrometers

HP



Specification

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

Shipment

- Cardboard box

			Measuring range mm	Spindle dia. mm	Thimble dia. mm	Pitch mm	Ref. No.	List price Euro
Frame depth 50 mm:								
▪			0 - 15	6.5	20	1	0822 301	86.00
▪			0 - 25	6.5	20	1	0822 302	129.00
▪			0 - 50	6.5	20	1	0822 303	237.00
Frame depth 100 mm:								
▪			0 - 50	6.5	20	1	0822 304	389.00

0824 Micrometers for tube wall measurement

HP



DIN
863-3

Specification

- DIN 863-3
- Reading: 0.01 mm
- Reading parts are satin chrome plated
- Ratchet stop
- Hardened measuring faces
- Malleable cast iron frame, lacquered

Shipment

- Cardboard box

			Measuring range mm	Spindle dia. mm	Thimble dia. mm	Pitch mm	Ref. No.	List price Euro
Ball dia. 2.5 mm:								
▪			0 - 15	6.5	20	0.5	0824 302	151.00
Ball dia. 6.5 mm:								
▪			0 - 25	6.5	20	0.5	0824 303	162.00



0854 Micrometers with reduced measuring faces

HP



DIN
863-3

Specification

- DIN 863-3
- Reading: 0.01 mm
- Reading parts are satin chrome plated
- Ratchet stop
- Thermally insulated
- Hardened spindle and anvil
- Coated steel frame

Shipment

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

			Measuring range mm	Spindle dia. mm	Thimble dia. mm	Pitch mm	Ref. No.	List price Euro
Measuring faces dia. 0.8 x 7 mm:								
▪			0 - 25	8.0	17.5	0.5	0854 301	231.00
▪			25 - 50	8.0	17.5	0.5	0854 302	280.00
▪			50 - 75	8.0	17.5	0.5	0854 303	300.00
▪			75 - 100	8.0	17.5	0.5	0854 304	326.00

0855 Blade micrometers

HP



DIN
863-3

Specification

- DIN 863-3
- Reading: 0.01 mm
- Reading parts are satin chrome plated
- Locking lever
- Ratchet stop
- Carbide measuring faces
- Thermally insulated
- Hardened spindle and anvil
- Coated steel frame

Shipment

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

			Measuring range mm	Spindle dia. mm	Thimble dia. mm	Pitch mm	Ref. No.	List price Euro
Measuring faces dia. 3 mm, length 8.5 mm:								
▪			0 - 25	6.5	17.5	0.5	0855 301	166.00
▪			25 - 50	6.5	17.5	0.5	0855 302	204.00
▪			50 - 75	6.5	17.5	0.5	0855 303	231.00
▪			75 - 100	6.5	17.5	0.5	0855 304	244.00



0858 Flute micrometers

HP

DIN
863



To measure an uneven number of grooved workpieces

Specification

- DIN 863
- Reading: 0.01 mm
- Reading parts are satin chrome plated
- Locking lever
- Ratchet stop
- Carbide measuring faces
- Thermally insulated
- Adjustment with setting discs (available on request)
- Pitch: per number of workpieces - flutes

Shipment

- Wooden case

			Measuring range mm	Thimble dia. mm	Ref. No.	List price Euro
For 3+9 flute workpieces: 60°						
			1 - 15	19	0858 501	465.00
			3 - 20	19	0858 502	546.00
			20 - 35	19	0858 503	548.00
			35 - 50	19	0858 504	553.00
			50 - 65	19	0858 505	655.00
			65 - 80	19	0858 506	735.00
For 5 flute workpieces: 108°						
			5 - 25	19	0858 508	574.00
			25 - 45	19	0858 509	768.00
			45 - 65	19	0858 510	800.00
			65 - 85	19	0858 511	999.00
			85 - 105	19	0858 512	1,096.00





0898 Setting standards for micrometers



Specification

- Rod
- Special steel, aged
- Hardened measuring faces
- Tolerance zone js 2
- Thermally insulated
- Parallel lapped measuring faces

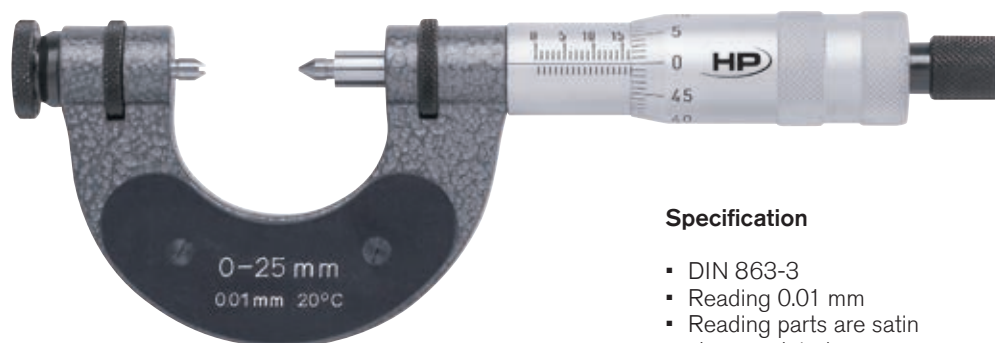
			Measuring range	Measuring faces dia.	Ref. No.	List price
			mm	mm		Euro
▪			25	6.5	0898 101	10.20
▪			50	6.5	0898 102	17.10
▪			75	6.5	0898 103	20.30
▪			100	6.5	0898 104	23.20
▪			125	6.5	0898 105	26.80
▪			150	6.5	0898 106	30.10
▪			175	6.5	0898 107	33.30
▪			200	6.5	0898 108	36.60
▪			225	6.5	0898 109	40.90
▪			250	6.5	0898 110	44.10
▪			275	6.5	0898 111	47.30
▪			300	10.0	0898 112	60.00
▪			325	10.0	0898 113	64.00
▪			350	10.0	0898 114	70.00
▪			375	10.0	0898 115	74.00
▪			400	10.0	0898 116	81.00
▪			425	10.0	0898 117	84.00
▪			450	10.0	0898 118	87.00
▪			475	10.0	0898 119	92.00
▪			500	10.0	0898 120	96.00
			525	10.0	0898 121	101.00
			550	10.0	0898 122	104.00
			575	10.0	0898 123	110.00
			600	10.0	0898 124	117.00
			625	10.0	0898 125	122.00
			650	10.0	0898 126	127.00
			675	10.0	0898 127	131.00
			700	10.0	0898 128	134.00
			725	10.0	0898 129	141.00
			750	10.0	0898 130	145.00
			775	10.0	0898 131	152.00
			800	10.0	0898 132	157.00
			825	10.0	0898 133	162.00
			850	10.0	0898 134	164.00
			875	10.0	0898 135	171.00
			900	10.0	0898 136	177.00
			925	10.0	0898 137	182.00
			950	10.0	0898 138	190.00
			975	10.0	0898 139	194.00
			1000	10.0	0898 140	199.00
	▪		1050	10.0	0898 142	283.00
	▪		1150	10.0	0898 146	314.00
	▪		1250	10.0	0898 150	340.00
	▪		1350	10.0	0898 154	371.00
	▪		1450	10.0	0898 158	397.00
	▪		1550	10.0	0898 162	638.00
	▪		1650	10.0	0898 166	669.00
	▪		1750	10.0	0898 170	695.00
	▪		1850	10.0	0898 174	726.00
	▪		1950	10.0	0898 178	757.00



0870 Precision micrometers for thread flank measurement

HP

**DIN
863-3**



Specification

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

Shipment

- Wooden case
- Without setting standard
- Thread flank inserts are not included
- Thread flank inserts and setting standards must be ordered separately

			Measuring range mm	Spindle adjustment mm	Thimble dia. mm	Pitch mm	Maximum error mm	Required length of setting standard mm	Ref. No.	List price Euro
For inserts with shank dimensions, dia. 3.5 x 13.5 mm:										
			0 - 25	25	20	0.5	3	—	0870 301	304.00
			25 - 50	25	20	0.5	3	25	0870 302	308.00
			50 - 75	25	20	0.5	4	50	0870 303	335.00
			75 - 100	25	20	0.5	4	75	0870 304	370.00
			100 - 125	25	20	0.5	4	100	0870 305	401.00
			125 - 150	25	20	0.5	4	125	0870 306	448.00
			150 - 200	50	20	0.5	5	175	0870 307	627.00
			200 - 250	50	20	0.5	5	225	0870 309	685.00
			250 - 300	50	20	0.5	5	275	0870 311	752.00





0870 Thread flank inserts for external measurement



Specification

- 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

			Flank angle	Applicable for UNC, UNF 60°	Pitch mm	Pitch range TPI mm	Ref. No.	List price Euro
Metric ISO - threads:								
			60°	72 - 48	0.35 - 0.5		0870 901	90.00
			60°	44 - 32	0.6 - 0.8		0870 903	82.00
			60°	28 - 18	0.9 - 1.25		0870 905	82.00
			60°	16 - 11	1.5 - 2		0870 907	82.00
			60°	10 - 7	2.5 - 3.5		0870 909	82.00
			60°	6 - 4	4 - 6		0870 911	90.00
Whitworth - threads:								
			55°			60 - 48	0870 921	110.00
			55°			40 - 32	0870 923	89.00
			55°			28 - 22	0870 925	89.00
			55°			20 - 16	0870 927	89.00
			55°			14 - 11	0870 929	89.00
			55°			10 - 7	0870 931	89.00
			55°			6 - 4	0870 933	96.00
Metric ISO - Trapezoid threads (DIN 103):								
			30°		1.5		0870 941	291.00
			30°		2		0870 943	211.00
			30°		3		0870 945	185.00
			30°		4		0870 947	185.00
			30°		5 - 6		0870 949	185.00
			30°		7 - 8		0870 951	185.00
			30°		9 - 10		0870 953	211.00
			30°		12 - 14		0870 955	291.00



0870 Thread flank setting standards for external measurement



Specification

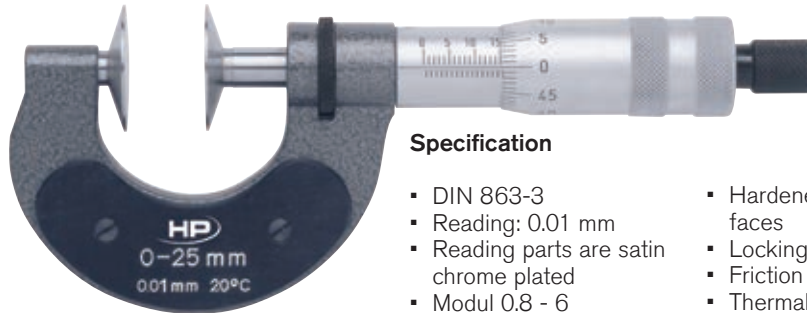
- Measuring faces made of hardened special steel
 - One end is rounded, the lapped bore simplifies the fitting upon the conical insert
 - Thermally insulated handle
- **Note:**
With trapezoid threads, every pitch requires a separate setting standard

			Length	Maximum error $\pm \mu\text{m}$	Available for the following pitches mm	Ref. No.	List price Euro
Metric ISO - threads 60°:							
			25	3		0870 801	72.00
			50	3		0870 802	73.00
			75	3		0870 803	74.00
			100	4		0870 804	75.00
			125	4		0870 805	76.00
			175	4		0870 807	85.00
			225	4		0870 809	94.00
			275	4		0870 811	102.00
Whitworth - threads 55°:							
			25	3		0870 821	72.00
			50	3		0870 822	73.00
			75	3		0870 823	74.00
			100	4		0870 824	79.00
			125	4		0870 825	80.00
			175	4		0870 827	92.00
			225	4		0870 829	105.00
			275	4		0870 831	120.00
Metric ISO - Trapezoid threads 30° (DIN 103):							
			25	4	2 / 3 / 4 / 5 - 6 / 7 - 8 / 9 - 10	0870 841	157.00
			50	4	2 / 3 / 4 / 5 - 6 / 7 - 8 / 9 - 10	0870 842	160.00
			75	4	2 / 3 / 4 / 5 - 6 / 7 - 8 / 9 - 10	0870 843	164.00
			100	5	3 / 4 / 5 - 6 / 7 - 8 / 9 - 10 / 12 - 14	0870 844	172.00
			125	5	4 / 5 - 6 / 7 - 8 / 9 - 10 / 12 - 14	0870 845	185.00
			175	5	4 / 5 - 6 / 7 - 8 / 9 - 10 / 12 - 14	0870 847	222.00
			225	5	5 - 6 / 7 - 8 / 9 - 10 / 12 - 14	0870 849	271.00
			275	5	5 - 6 / 7 - 8 / 9 - 10 / 12 - 14	0870 851	331.00





0864 Disc micrometers to measure tooth span



DIN
863-3

Specification

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

Shipment

- Wooden case

			Measuring range mm	Disc dia. mm	Thimble dia. mm	Pitch mm	Ref. No.	List price Euro
▪			0 - 25	25.0	20.0	0.5	0864 321	228.00
▪			25 - 50	25.0	20.0	0.5	0864 322	256.00
▪			50 - 75	25.0	20.0	0.5	0864 323	264.00
▪			75 - 100	25.0	20.0	0.5	0864 324	314.00
			100 - 125	25.0	20.0	0.5	0864 325	325.00
			125 - 150	25.0	20.0	0.5	0864 326	382.00
			150 - 175	25.0	20.0	0.5	0864 327	405.00
			175 - 200	25.0	20.0	0.5	0864 328	438.00

Versions with disc dia. 30 mm and pitch 1 mm are available upon request.

0933 DIGI-MET® Disc micrometers to measure tooth span



OPTO

Specification

- Factory standard
- Selectable resolution 0.01 mm / 0.001 mm; 0.0005 inch / 0.00005 inch
- Non-rotating spindle
- Linear measuring system
- Locking lever

- Thermally insulated
- Ratchet stop

Electronic functions

- ON/OFF switch
- Zero setting at any position
- mm/inch conversion
- Data output Opto RS 232

- Max/Min value memory
- Hold Function
- PRESET Function (setting a numerical value)
- Enter tolerance value

Shipment

- Wooden case

			Measuring range mm	inch	Module	Spindle dia. mm	Disc dia. mm	Pitch mm	Ref. No.	List price Euro
▪			0 - 25	0 - 1	0.4	8	25	1	0933 701	708.00
▪			25 - 50	1 - 2	0.4	8	25	1	0933 702	789.00
▪			50 - 75	2 - 3	0.4	8	25	1	0933 703	831.00
▪			75 - 100	3 - 4	0.4	8	25	1	0933 704	853.00
			100 - 125	4 - 5	0.6	8	30	1	0933 705	885.00
			125 - 150	5 - 6	0.6	8	30	1	0933 706	950.00
			150 - 175	6 - 7	0.6	8	30	1	0933 707	1,025.00
			175 - 200	7 - 8	0.6	8	30	1	0933 708	1,058.00

Accessories

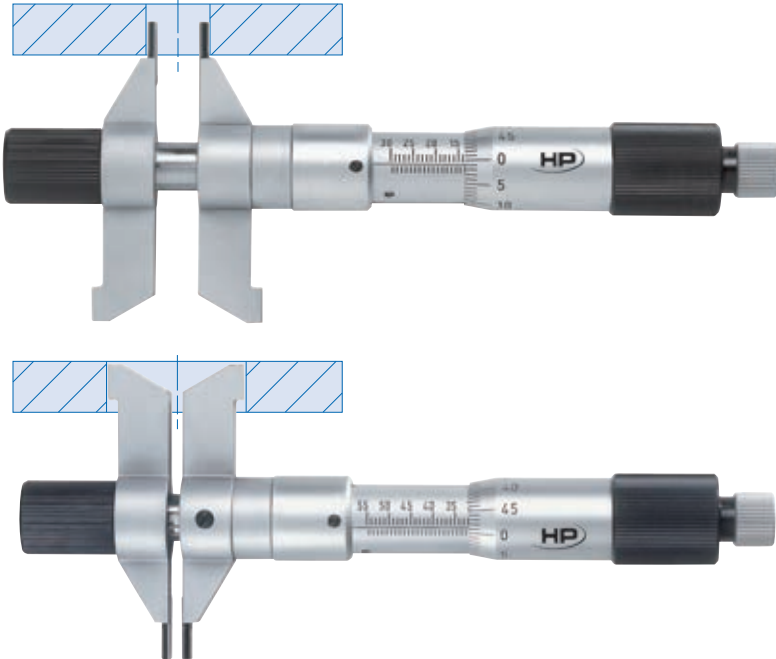
	Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable for Opto to RS 232	0996 701	69.00
Cable for Opto to USB	0996 705	132.00
USB-keyboard interface cable Opto RS 232	0997 770	225.00



0884 Internal micrometer with measuring jaws

HP

DIN
863-4



Specification

- DIN 863-4
- Reading: 0.01 mm
- Reading parts are satin chrome plated
- 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

Shipment

- Wooden case

			Measuring range mm	Thimble dia. mm	Pitch mm	Ref. No.	List price Euro
▪			5 - 55	20	0.5	0884 501	665.00

0885 Internal micrometers with measuring jaws

HP



Specification

- Factory standard
- Reading: 0.01 mm
- Readings parts and body are satin chrome plated
- Ratchet stop
- Carbide measuring faces
- Excludes setting ring

Shipment

- Wooden case

			Measuring range mm	Thimble dia. mm	Pitch mm	Ref. No.	List price Euro
▪			5 - 30	17	0.5	0885 501	164.00
▪			25 - 50	17	0.5	0885 502	183.00
▪			50 - 75	17	0.5	0885 503	190.00
▪			75 - 100	17	0.5	0885 504	229.00
			100 - 125	17	0.5	0885 505	291.00
			125 - 150	17	0.5	0885 506	336.00
			150 - 175	17	0.5	0885 507	428.00
			175 - 200	17	0.5	0885 508	485.00





0888 Internal micrometers cylindrical version

HP



DIN
863-4

Specification

- DIN 863-4
- Reading: 0.01 mm
- Reading parts are satin chrome plated
- 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

Shipment

- Wooden case

			Measuring range mm	Thimble dia. mm	Pitch mm	Ref. No.	List price Euro
▪			25 - 30	15	0.5	0888 501	129.00
▪			30 - 35	15	0.5	0888 502	129.00
▪			35 - 50	15	0.5	0888 503	129.00
▪			50 - 75	16	0.5	0888 504	135.00
▪			75 - 100	17	0.5	0888 505	140.00
			100 - 125	20	0.5	0888 506	156.00
			125 - 150	20	0.5	0888 507	160.00
			150 - 175	20	0.5	0888 508	166.00
			175 - 200	20	0.5	0888 509	171.00
			200 - 225	20	0.5	0888 510	176.00
			225 - 250	20	0.5	0888 511	183.00
			250 - 275	20	0.5	0888 512	190.00
			275 - 300	20	0.5	0888 513	195.00
			300 - 325	20	0.5	0888 514	202.00
			325 - 350	20	0.5	0888 515	208.00
			350 - 375	20	0.5	0888 516	216.00
			375 - 400	20	0.5	0888 517	221.00
			400 - 425	20	0.5	0888 518	231.00
			425 - 450	20	0.5	0888 519	236.00
			450 - 475	20	0.5	0888 520	241.00
			475 - 500	20	0.5	0888 521	247.00

Measuring ranges up to 1000 mm are available upon request

0888 Holder for internal micrometers

HP



Specification

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



			Ref. No.	List price Euro
▪			0888 101	40.40



0892 Internal micrometers interchangeable extensions



DIN
863-4



Specification

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

Shipment

- Wooden case

			Measuring range mm	Extension rods mm	Thimble dia. mm	Pitch mm	Ref. No.	List price Euro
▪			50 - 150	25 / 50	17	0.5	0892 501	318.00
▪			50 - 250	25 / 50 / 100	17	0.5	0892 502	387.00
▪			50 - 450	25 / 50 / 100 / 200	17	0.5	0892 503	478.00
▪			50 - 850	25 / 50 / 100 / 200 / 400	17	0.5	0892 504	600.00
▪			50 - 1450	25 / 50 / 100 / 200 / 400 / 600	17	0.5	0892 505	762.00

0892 Extensions for internal micrometers



0892 334

			Length mm	Ref. No.	List price Euro
▪			25	0892 332	54.00
▪			50	0892 333	55.00
▪			100	0892 334	61.00
▪			200	0892 336	75.00
▪			400	0892 339	98.00
▪			600	0892 340	137.00



0894 Precision internal micrometers with extensions

HP



DIN
863-4

Specification

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

Shipment

- Wooden case

			Measuring range of the set mm	Maximum error µm	Length of extensions (tube dia. 17 mm) mm	Length of extensions (tube dia. 32 mm) mm	Ref. No.	List price Euro
			100 - 150	4	only micrometer, excludes case	—	0894 504	230.00
			100 - 300	7	50 / 100	—	0894 510	607.00
			100 - 500	9	50 / 100 / 200	—	0894 514	816.00
			100 - 900	11	50 / 100 / 200 / 400	—	0894 518	1,055.00
			100 - 1300	13	50 / 100 / 200 / 400 / 400	—	0894 522	1,297.00
			100 - 1700	15	50 / 100 / 200 / 400 / 800	—	0894 526	1,333.00
			100 - 2100	18*	50 / 100 / 200 / 400 / 400 / 800	—	0894 530	1,570.00
			100 - 2500	21*	50 / 100 / 200 / 400 / 800 / 800	—	0894 534	1,611.00
			100 - 2000	18*	50 / 100 / 200 / 200	500 / 1 x 1000	0894 538	2,810.00
			100 - 3000	30*	50 / 100 / 200 / 200	500 / 2 x 1000	0894 542	3,664.00
			100 - 4000	40*	50 / 100 / 200 / 200	500 / 3 x 1000	0894 546	4,549.00
			100 - 5000	50*	50 / 100 / 200 / 200	500 / 4 x 1000	0894 550	5,403.00
			100 - 6000	60*	50 / 100 / 200 / 200	500 / 5 x 1000	0894 554	6,267.00

* 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

HP



			Length mm	Tube dia. mm	Ref. No.	List price Euro
			50	17	0894 804	164.00
			100	17	0894 806	186.00
			200	17	0894 810	201.00
			400	17	0894 820	222.00
			800	17	0894 834	253.00
			500	32	0894 854	829.00
			1000	32	0894 872	855.00



0906 2/3 Point internal micrometers

HP

DIN
863-4



Inclusive!

Specification

- DIN 863-4
- Reading: 0.005 mm
- Reading parts are satin chrome plated
- Pitch: 0.5 mm
- From measuring range 12.5 mm with carbide tipped measuring faces
- Ratchet stop
- For through holes
- For through holes and blind holes from measuring range 12.5 mm

Shipment

- Up to measuring range 20-25 mm = Plastic case
- From measuring range 25-35 mm = Wooden case
- With setting ring

			Measuring range mm	Meas. depth mm	Thimble mm	Accuracy mm	Setting ring dia. mm	Ref. No.	List price Euro
2 Point internal micrometer:									
▪	▪		2 - 2.5	12	27	0.003	2.5	0906 501	806.00
▪	▪		2.5 - 3	12	27	0.003	2.5	0906 502	806.00
▪	▪		3 - 4	12	27	0.003	4.0	0906 503	721.00
▪	▪		4 - 5	20	27	0.003	4.0	0906 504	721.00
▪	▪		5 - 6	20	27	0.003	5.0	0906 505	721.00
3 Point internal micrometer:									
▪	▪		6 - 8	58	27	0.003	8.0	0906 506	346.00
▪	▪		8 - 10	58	27	0.003	8.0	0906 507	318.00
▪	▪		10 - 12.5	58	27	0.003	12.5	0906 508	318.00
▪	▪		12.5 - 16	62	27	0.003	12.5	0906 509	318.00
▪	▪		16 - 20	62	27	0.003	20.0	0906 510	325.00
▪	▪		20 - 25	66	27	0.003	20.0	0906 511	358.00
▪	▪		25 - 35	66	27	0.003	35.0	0906 512	511.00
▪	▪		35 - 50	80	27	0.003	35.0	0906 513	520.00
▪	▪		50 - 65	80	27	0.004	65.0	0906 514	622.00
▪	▪		65 - 80	80	27	0.004	65.0	0906 515	622.00
▪	▪		80 - 100	100	27	0.004	80.0	0906 516	790.00
▪	▪		100 - 125	115	27	0.005	125.0	0906 517	795.00
▪	▪		125 - 150	115	27	0.005	125.0	0906 518	929.00
▪	▪		150 - 175	115	27	0.005	175.0	0906 519	1,180.00
▪	▪		175 - 200	115	27	0.005	175.0	0906 520	1,456.00
▪	▪		200 - 225	115	27	0.005	225.0	0906 521	1,816.00
▪	▪		225 - 250	115	27	0.005	225.0	0906 522	1,932.00
▪	▪		250 - 275	115	27	0.005	275.0	0906 523	2,044.00
▪	▪		275 - 300	115	27	0.005	275.0	0906 524	2,135.00



0906 Set of 2/3 point internal micrometers

HP

DIN
863-4



Specification

- DIN 863-4
- Reading: 0.005 mm
- Reading parts are satin chrome plated
- Pitch: 0.5 mm
- From measuring range 12.5 mm with carbide tipped measuring faces
- Ratchet stop
- For through holes
- For through holes and blind holes from measuring range 12.5 mm
- Certificate for setting ring and internal micrometer

Shipment

- Wooden case
- With setting rings

			Measuring range mm	Thimble mm	Setting ring dia. mm	Ref. No.	List price Euro
2 Point internal micrometer:							
	▪		2 - 3	27	2.5	0906 551	1,468.00
	▪		3 - 6	27	4.0 + 5.0	0906 552	1,987.00
3 Point internal micrometer:							
	▪	▪	6 - 10	27	8.0	0906 553	580.00
	▪	▪	10 - 20	27	12.5 + 20.0	0906 555	866.00
	▪	▪	20 - 50	27	20.0 + 35.0	0906 557	1,365.00
	▪	▪	50 - 100	27	65.0 + 80.0	0906 559	1,855.00
	▪		100 - 150	27	125.0	0906 561	1,389.00
	▪		150 - 200	27	175.0	0906 563	1,977.00

Measuring depth extensions for 2/3 point internal micrometers 0906 - 0908

HP



Specification

- Ideal for all internal micrometers from series 0906, 0907 and 0908

			For measuring range mm	Length mm	Ref. No.	List price Euro
			6 - 10	63	0909 506	76.00
			10 - 12.5	76	0909 508	76.00
			12.5 - 20	100	0909 509	76.00
			20 - 50	150	0909 511	111.00
			50 - 300	150	0909 514	130.00



0907 DIGI-MET® 2/3 point internal micrometers

HP



Inclusive!



Specification




- DIN 863-4
- Reading: 0.001 mm / .00005 inch
- Protection class IP 65
- LCD display 6 mm
- Certificate for setting ring and internal micrometer
- Ratchet stop
- For through holes
- For through holes and blind holes from measuring range 12.5 mm
- From measuring range 12.5 mm with carbide tipped measuring faces

Electronic functions

- ON/OFF switch
- Zero setting at any position
- mm/inch conversion
- Data output RS 232
- Max/Min value memory
- Hold Function
- PRESET Function (setting a numerical value)
- Tolerance function

Shipment

- Wooden case
- With setting ring

			Measuring range		Meas. depth		Accuracy		Setting ring dia.		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch	mm	inch		
DIGI-MET 2 Point internal micrometer:												
	▪		2 - 2.5	.080 - .100	9	0.35	0.004	.00015	2.5	.1000	0907 701	1,382.00
	▪		2.5 - 3	.100 - .120	9	0.35	0.004	.00015	2.5	.1000	0907 702	1,382.00
	▪		3 - 4	.120 - .160	12	0.47	0.004	.00015	4.0	.1600	0907 703	1,382.00
	▪		4 - 5	.160 - .200	18	0.70	0.004	.00015	4.0	.1600	0907 704	1,382.00
	▪		5 - 6	.200 - .250	18	0.70	0.004	.00015	5.0	.2000	0907 705	1,382.00
DIGI-MET 3 Point internal micrometer:												
▪	▪		6 - 8	$\frac{1}{4}$ - $\frac{5}{16}$	58	2.28	0.004	.00015	8.0	.312	0907 706	955.00
▪	▪		8 - 10	$\frac{5}{16}$ - $\frac{3}{8}$	58	2.28	0.004	.00015	8.0	.312	0907 707	955.00
▪	▪		10 - 12.5	$\frac{3}{8}$ - $\frac{1}{2}$	58	2.28	0.004	.00015	12.5	.500	0907 708	967.00
▪	▪		12.5 - 16	$\frac{1}{2}$ - $\frac{5}{8}$	62	2.44	0.004	.00015	12.5	.500	0907 709	981.00
▪	▪		16 - 20	$\frac{5}{8}$ - $\frac{3}{4}$	62	2.44	0.004	.00015	20.0	.750	0907 710	981.00
▪	▪		20 - 25	$\frac{3}{4}$ - 1	66	2.62	0.004	.00015	20.0	.750	0907 711	1,178.00
▪	▪		25 - 35	1 - $1\frac{3}{8}$	66	2.62	0.004	.00015	35.0	1.375	0907 712	1,354.00
▪	▪		35 - 50	$1\frac{3}{8}$ - 2	80	3.15	0.004	.00015	35.0	1.375	0907 713	1,407.00
▪	▪		50 - 65	2 - $2\frac{5}{8}$	80	3.15	0.005	.00020	65.0	2.625	0907 714	1,566.00
▪	▪		65 - 80	$2\frac{5}{8}$ - $3\frac{1}{4}$	80	3.15	0.005	.00020	65.0	2.625	0907 715	1,566.00
▪	▪		80 - 100	$3\frac{1}{4}$ - 4	100	3.94	0.005	.00020	80.0	3.250	0907 716	1,650.00
	▪		100 - 125	4 - 5	115	4.53	0.006	.00025	125.0	5.000	0907 717	1,720.00
	▪		125 - 150	5 - 6	115	4.53	0.006	.00025	125.0	5.000	0907 718	1,774.00
	▪		150 - 175	6 - 7	115	4.53	0.007	.00030	175.0	7.000	0907 719	1,940.00
	▪		175 - 200	7 - 8	115	4.53	0.007	.00030	175.0	7.000	0907 720	2,063.00
	▪		200 - 225	8 - 9	118	4.65	0.008	.00030	225.0	9.000	0907 721	2,500.00
	▪		225 - 250	9 - 10	118	4.65	0.008	.00030	225.0	9.000	0907 722	2,755.00
	▪		250 - 275	10 - 11	118	4.65	0.009	.00035	275.0	11.000	0907 723	2,856.00
	▪		275 - 300	11 - 12	118	4.65	0.009	.00035	275.0	11.000	0907 724	3,119.00

Accessories

	Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable RS 232	0909 110	99.00



0907 Set of DIGI-MET® 2/3 point internal micrometers

HP



Specification

- DIN 863-4
- Reading: 0.001 mm / .00005 inch
- Protection class IP 65
- LCD display 6 mm
- Certificate for setting ring and internal micrometers
- Ratchet stop
- For through holes
- For through holes and blind holes from measuring range 12.5 mm
- From measuring range 12.5 mm with carbide tipped measuring faces

Electronic functions

- ON/OFF switch
- Zero setting at any position
- mm/inch conversion
- Data output RS 232
- Max/Min value memory
- Hold Function
- PRESET Function (setting a numerical value)
- Tolerance function

Shipment

- Wooden case
- With setting rings

			Measuring range mm	Setting ring dia. mm	Ref. No.	List price Euro
2 Point internal micrometer:						
▪	▪		2 - 6	2.5 / 4.0 / 5.0	0907 751	3,312.00
3 Point internal micrometer:						
▪	▪		6 - 10	8.0	0907 753	1,321.00
▪	▪		10 - 20	12.5 / 20.0	0907 755	1,598.00
▪	▪		20 - 50	20.0 / 35.0	0907 757	2,202.00
▪	▪		50 - 100	65.0 / 80.0	0907 759	2,448.00
	▪		100 - 150	125.0	0907 761	2,054.00
	▪		150 - 200	125.0	0907 763	2,746.00
	▪		100 - 200	125.0 / 175.0	0907 775	4,312.00

Accessories

	Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable RS 232	0909 110	99.00



0908 DIGI-MET® 2/3 point internal micrometer

HP



Specification

- DIN 863-4
- Reading: 0.001 mm / .00005 inch
- Protection class IP 65
- With pistol grip
- From measuring range 12.5 mm with carbide tipped measuring faces
- Rotatable LCD display
- Certificate for setting ring and micrometer
- For through holes
- For through holes and blind holes from measuring range 12.5 mm

Electronic functions

- ON/OFF switch
- Zero setting at any position
- mm/inch conversion
- Data output RS 232
- Max/Min value memory
- Hold Function
- PRESET Function (setting a numerical value)
- Tolerance function

Shipment

- Wooden case
- With setting ring

			Measuring range		Meas. depth		Accuracy		Setting rings dia.		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch	mm	inch		
DIGI-MET 2 Point instant internal micrometer:												
	▪		2 - 2.5	.080 - .100	9	.35	0.004	.00015	2.5	.1000	0908 701	1,594.00
	▪		2.5 - 3	.100 - .120	9	.35	0.004	.00015	2.5	.1000	0908 702	1,594.00
	▪		3 - 4	.120 - .160	12	.47	0.004	.00015	4.0	.1600	0908 703	1,594.00
	▪		4 - 5	.160 - .200	18	.70	0.004	.00015	4.0	.1600	0908 704	1,594.00
	▪		5 - 6	.200 - .250	18	.70	0.004	.00015	5.0	.2000	0908 705	1,594.00
DIGI-MET 3 Point instant internal micrometer:												
▪	▪		6 - 8	$\frac{1}{4}$ - $\frac{5}{16}$	58	2.28	0.004	.00015	8.0	.312	0908 706	1,127.00
▪	▪		8 - 10	$\frac{5}{16}$ - $\frac{3}{8}$	58	2.28	0.004	.00015	8.0	.312	0908 707	1,102.00
▪	▪		10 - 12.5	$\frac{3}{8}$ - $\frac{1}{2}$	58	2.28	0.004	.00015	12.5	.500	0908 708	1,163.00
▪	▪		12.5 - 16	$\frac{1}{2}$ - $\frac{5}{8}$	62	2.44	0.004	.00015	12.5	.500	0908 709	1,180.00
▪	▪		16 - 20	$\frac{5}{8}$ - $\frac{3}{4}$	62	2.44	0.004	.00015	20.0	.750	0908 710	1,251.00
▪	▪		20 - 25	$\frac{3}{4}$ - 1	66	2.62	0.004	.00015	20.0	.750	0908 711	1,335.00
▪	▪		25 - 35	1 - $1\frac{3}{8}$	66	2.62	0.004	.00015	35.0	1.375	0908 712	1,449.00
▪	▪		35 - 50	$1\frac{3}{8}$ - 2	80	3.15	0.004	.00015	35.0	1.375	0908 713	1,480.00
▪	▪		50 - 65	2 - $2\frac{5}{8}$	80	3.15	0.005	.00020	65.0	2.625	0908 714	1,524.00
▪	▪		65 - 80	$2\frac{5}{8}$ - $3\frac{1}{4}$	80	3.15	0.005	.00020	65.0	2.625	0908 715	1,524.00
▪	▪		80 - 100	$3\frac{1}{4}$ - 4	100	3.94	0.005	.00020	80.0	3.250	0908 716	1,625.00
▪	▪		100 - 125	4 - 5	115	4.53	0.006	.00025	125.0	5.000	0908 717	1,700.00
▪	▪		125 - 150	5 - 6	115	4.53	0.006	.00025	125.0	5.000	0908 718	1,803.00
▪	▪		150 - 175	6 - 7	115	4.53	0.007	.00030	175.0	7.000	0908 719	1,907.00
▪	▪		175 - 200	7 - 8	115	4.53	0.007	.00030	175.0	7.000	0908 720	1,993.00
▪	▪		200 - 225	8 - 9	118	4.65	0.008	.00030	225.0	9.000	0908 721	2,622.00
▪	▪		225 - 250	9 - 10	118	4.65	0.008	.00030	225.0	9.000	0908 722	2,892.00
▪	▪		250 - 275	10 - 11	118	4.65	0.009	.00035	275.0	11.000	0908 723	2,997.00
▪	▪		275 - 300	11 - 12	118	4.65	0.009	.00035	275.0	11.000	0908 724	3,308.00

Accessories

	Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable RS 232	0909 110	99.00





0908 Set of DIGI-MET® 2/3 point internal micrometers

HP



Specification




- DIN 863-4
- Reading: 0.001 mm / .00005 inch
- Protection class IP 65
- With pistol grip
- From measuring range 12.5 mm with carbide tipped measuring faces
- Rotatable LCD display
- Certificate for setting ring and micrometer
- For through holes
- For through holes and blind holes from measuring range 12.5 mm

Electronic functions

- ON/OFF switch
- Zero setting at any position
- mm/inch conversion
- Data output RS 232
- Max/Min value memory
- Hold Function
- PRESET Function (setting a numerical value)
- Tolerance function

Shipment

- Wooden case
- With setting rings
- Calibration according to table

			Measuring range		Setting rings dia. mm	Ref. No.	List price Euro
			mm	inch			
2 Point instant internal micrometer:							
	▪		2 - 6	.080 - .250	2.5 / 4.0 / 5.0	0908 751	3,643.00
3 Point instant internal micrometer:							
▪	▪		6 - 10	$\frac{1}{4}$ - $\frac{3}{8}$	8.0	0908 753	1,367.00
▪	▪		10 - 20	$\frac{3}{8}$ - $\frac{3}{4}$	12.5 / 20.0	0908 755	1,615.00
▪	▪		20 - 50	$\frac{3}{4}$ - 2	20.0 / 35.0	0908 757	2,116.00
	▪		20 - 100	$\frac{3}{4}$ - 4	20.0 / 35.0 / 65.0 / 80.0	0908 773	3,511.00
▪	▪		50 - 100	2 - 4	65.0 / 80.0	0908 759	2,369.00
	▪		100 - 150	4 - 6	125.0	0908 761	2,116.00
	▪		150 - 200	6 - 8	175.0	0908 763	2,827.00
	▪		100 - 200	4 - 8	125.0 / 175.0	0908 775	4,477.00

Accessories

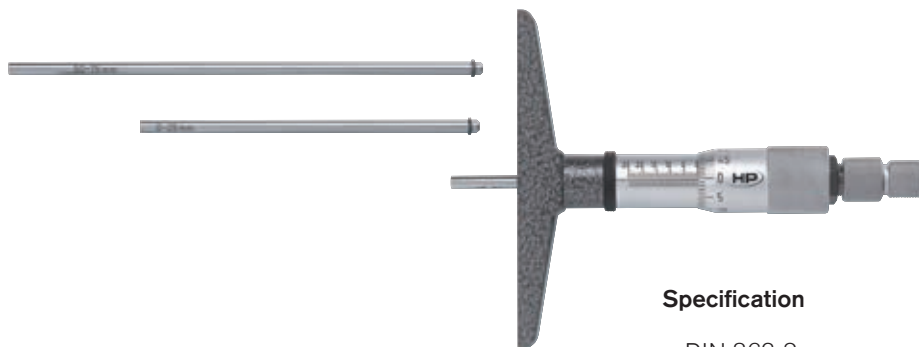
	Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable RS 232	0909 110	99.00



0882 Depth micrometers

HP

DIN
863-2



Specification

- DIN 863-2
- Reading: 0.01 mm
- Reading parts are satin chrome plated
- Locking ring
- Friction coupling
- With interchangeable steel measuring inserts dia. 4 mm
- Hardened measuring faces

Shipment

- Wooden case

			Measuring range mm	Length of base mm	Thimble dia. mm	Inserts	Pitch mm	Ref. No.	List price Euro
Measuring faces dia. 0.8, length 8.5 mm:									
▪			0 - 75	50	20	3	0.5	0882 301	239.00
▪			0 - 100	100	20	4	0.5	0882 303	264.00
▪			0 - 150	100	20	6	0.5	0882 304	309.00
▪			0 - 300	100	20	12	0.5	0882 306	498.00

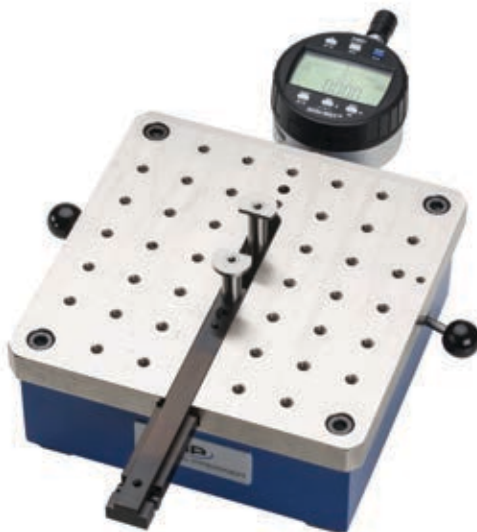


0728 Internal precision bore gauges for large and depth bores



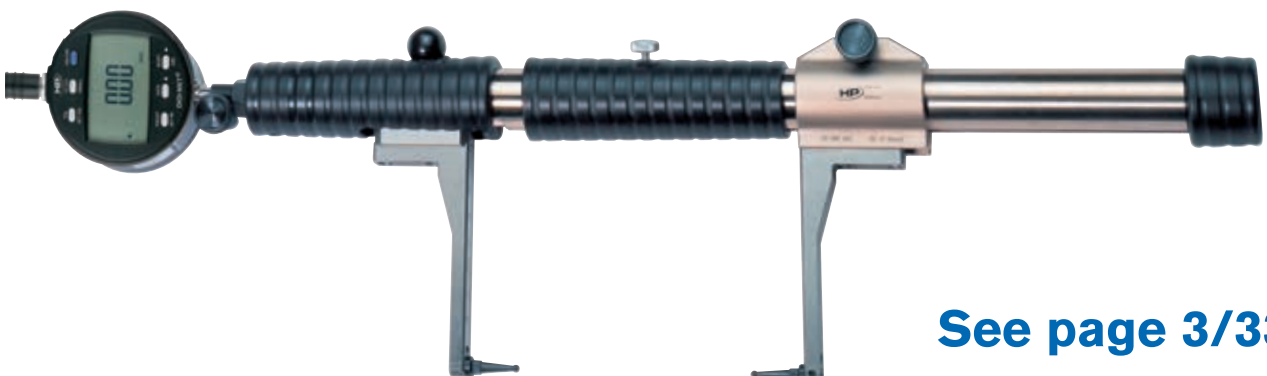
See page 3/27

0739 Universal comparator gauge



See page 3/30

0741 DIGI-MET® Universal comparator gauge



See page 3/33



EXPERTISE IS PRESENCE

Challenging tasks requires first class equipment – that is exactly what we offer with our hand measuring instruments. With over 5000 specialist dealers we are globally present side by side with the professional operator, quality is always close at hand and our competent advisors are never far away.

This standard can only be upheld based upon partnership – for example with know how transfer as part of trade based training courses, swift joint solutions of measuring problems, customer and product based supporting hotlines; these all help to simplify the familiar selling processes.

As we fulfil all quality requirements our calibration certificate is included by many products; then only a calibrated measuring and inspecting instrument complies with the requirements of the various legislations, standards and guidelines.

CHAPTER 3 **DIAL INDICATORS**



Digital indicators	3/2
Dial gauges	3/7
Dial comparator gauges	3/12
Accessories for indicator gauges and comparator gauges	3/13
Measuring inserts for dial gauges	3/15
Test indicators	3/18
Depth gauges, Depth measuring base	3/19
Thickness gauges	3/20
Internal and external caliper gauges	3/22
Internal precision bore gauges	3/26
Crankshaft gauges	3/28
Length measuring instruments for external incisions	3/28
Length measuring instrument for internal incisions	3/29
Universal comparator gauge	3/30
Basic comparator gauge UHRTAST	3/33
Magnetic indicator stands	3/38
Measuring stands	3/41
Bench centres	3/43
Shaft measuring instruments	3/48

DIGI-MET®



1722 / 1723 / 1724 DIGI-MET® indicators

HP



1722 502



1723 502



1724 502

Specification

- Housing Ø 60 mm
- Replacement probe tip M2.5
- Protection class IP 52
- Clamping shank Ø 8 mm
- LCD display with 12 mm high numerals
- Measuring force 0.5 - 1 N
- Accuracy according to factory standard

Electronic functions

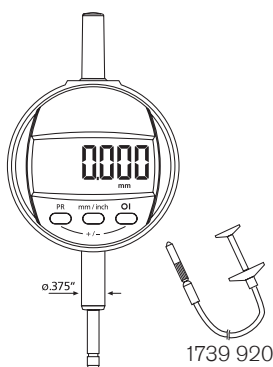
- ON/OFF switch
- **QuickStart** Electronic
- **QuickLock** Function
- Zero setting at any position
- Reversal of counting direction
- mm/inch conversion
- Individual buttons can be locked

- Variable data output RS 232 + Digimatic + USB
- PRESET Function (setting a numerical value)

Shipment

- Cardboard box

			Measuring range		Reading		Accuracy	Ref. No.	List price
			mm	inch	mm	inch	mm		Euro
▪			12.5	0.5	0.01	.0005	0.020	1722 502	129.00
▪			12.5	0.5	0.005	.0001	0.015	1723 502	162.00
▪			12.5	0.5	0.001	.00005	0.015	1724 502	265.00



Accessories

	Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable for USB	1998 720	64.00
Cable for RS 232	1997 501	44.90
Cable for Digimatic	1998 501	44.90
Cable release	1739 920	13.40





1726 / 1728 DIGI-MET® indicators

HP



1728 502



1726 502

Specification



- Aluminium housing
- Hardened stainless steel spindle
- Outer ring (Bezel) Ø 60 mm
- Replacement probe tip M 2.5
- Protection class IP 42
- Clamping shank Ø 8 mm
- Display unit can be rotated through 280°
- LCD display with 11 mm high numerals
- Factory standard

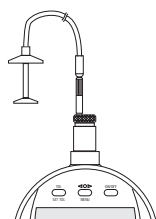
Shipment

- Cardboard box

Electronic Functions

- ON/OFF switch
- QuickStart Electronic
- QuickLock Electronic
- Zero setting at any position
- mm/inch conversion
- Absolute function (display can be set to zero without losing the Preset value)
- Tolerance function
- Reversal of counting direction
- Factor input
- Individual buttons can be locked
- Variable data output RS 232 + Digimatic + USB
- PRESET Function (setting a numerical value)

			Measuring range		Reading		Accuracy		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch		
Reading 0.001 mm:										
▪			12.5	0.5	0.01	.0005	0.02	.001	1728 502	259.00
▪			25.0	1.0	0.01	.0005	0.02	.001	1728 506	330.00
			50.0	2.0	0.01	.0005	0.02	.001	1728 510	538.00
			100.0	4.0	0.01	.0005	0.02	.001	1728 514	689.00
Reading 0.01 mm:										
▪			12.5	0.5	0.001	.00005	0.005	.0002	1726 502	310.00
▪			25.0	1.0	0.001	.00005	0.005	.0002	1726 506	341.00
			50.0	2.0	0.001	.00005	0.008	.0003	1726 510	601.00
			100.0	4.0	0.001	.00005	0.009	.0004	1726 514	743.00



1739 910

Accessories

Accessories	Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2450	1998 770	5.30
Cable for USB	1998 720	64.00
Cable for RS 232	1997 501	44.90
Cable for Digimatic	1998 501	44.90
Cable release	1739 910	23.80



1730 / 1732 DIGI-MET® indicators

HP



1730 502



1730 506

Specification




- Aluminium housing
- Hardened stainless steel spindle
- Outer ring (Bezel) Ø 60 mm
- Replacement probe tip M2.5
- Protection class IP 54
- Clamping shank Ø 8 mm
- Display unit can be rotated through 280°
- LCD display with 11 mm high numerals
- Factory standard

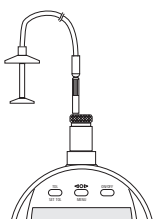
Shipment

- Cardboard box

Electronic functions

- ON/OFF switch
- QuickStart Electronic
- QuickLock Function
- Zero setting at any position
- mm/inch conversion
- Absolute function (display can be set to zero without losing the Preset value)
- Tolerance function
- Reversal of counting direction
- Factor input
- Individual buttons can be locked
- Variable data output RS 232 + Digimatic + USB
- PRESET Function (setting a numerical value)

			Measuring range		Reading		Accuracy		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch		
Reading 0.01 mm										
			12.5	0.5	0.01	.0005	0.02	.001	1732 502	290.00
			25.0	1.0	0.01	.0005	0.02	.001	1732 506	365.00
Reading 0.001 mm										
▪			12.5	0.5	0.001	.00005	0.005	.0002	1730 502	343.00
▪			25.0	1.0	0.001	.00005	0.005	.0002	1730 506	387.00



1739 910

Accessories

	Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2450	1998 770	5.30
Cable for USB	1998 720	64.00
Cable for RS 232	1997 501	44.90
Cable for Digimatic	1998 501	44.90
Cable release	1739 910	23.80





1734 DIGI-MET® indicators with combined analogue/digital display



1734 502



1734 506

Specification

- Aluminium housing
- Hardened stainless steel spindle
- Outer ring (Bezel) Ø 60 mm
- Replacement probe tip M 2.5
- Protection class IP 42
- Clamping shank Ø 8 mm
- Display unit can be rotated through 280°
- LCD display with 8.5 mm high numerals
- Factory standard

Shipment

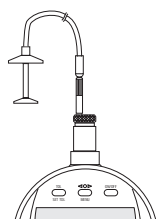
- Cardboard box

Electronic functions

- ON/OFF switch
- QuickStart Electronic
- QuickLock Function
- Zero setting at any position
- mm/inch conversion
- Absolute function (display can be set to zero without losing the Preset value)
- Tolerance function
- MAX-MIN function
- TIR (MAX-MIN) function
- Reversal of counting direction
- Factor input
- Individual buttons can be locked
- Variable data output RS 232 + Digimatic + USB
- PRESET Function (setting a numerical value)

			Measuring range		Reading		Accuracy		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch		
▪			12.5	0.5	0.001	.00005	0.005	.0002	1734 502	357.00
▪			25.0	1.0	0.001	.00005	0.005	.0002	1734 506	409.00

1739 910



Accessories

	Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2450	1998 770	5.30
Cable for USB	1998 720	64.00
Cable for RS 232	1997 501	44.90
Cable for Digimatic	1998 501	44.90
Cable release	1739 910	23.80



0691 DIGI-MET® indicators

HP



0691 735

0691 747

0691 733

Specification

- Aluminium housing
- Outer ring (Bezel) Ø 60 mm
- Replacement probe tip M 2.5
- Protection class IP 51
- Water and coolant resistant
- Clamping shank Ø 8 mm
- Display unit can be rotated through 270°
- Large LCD-display
- Factory standard

Electronic functions




- ON/OFF switch
- Zero setting at any position
- mm/inch-conversions
- Data output Proximity and Power RS232 (USB-keyboard interface cable, see page 7/4)
- PRESET function (setting a numerical value)

** Additional functions models 0691 751 + 0691 753

- Tolerances (visual indications via LEDs)
- MAX / MIN function
- TIR (MAX-MIN) function
- Factor input

Shipment

- Cardboard box

			Measuring range		Reading		Accuracy	Ref. No.	List price
			mm	inch	mm	inch	mm		Euro
Reading 0.01 mm:									
			12.5	0.5	0.01	.0005	0.010*	0691 731	339.00
			25.0	1.0	0.01	.0005	0.010*	0691 733	389.00
			50.0	2.0	0.01	.0005	0.020*	0691 735	846.00
			100.0	4.0	0.01	.0005	0.020*	0691 737	954.00
Reading 0.001 mm:									
			12.5	0.5	0.001	.00005	0.004	0691 741	419.00
			25.0	1.0	0.001	.00005	0.005	0691 743	460.00
			50.0	2.0	0.001	.00005	0.007	0691 745	938.00
			100.0	4.0	0.001	.00005	0.008	0691 747	1,084.00
Reading 0.001 mm, with additional functions**:									
			12.5	0.5	0.001	.00005	0.003	0691 751*	487.00
			25.0	1.0	0.001	.00005	0.004	0691 753*	538.00

* ± 1 Digit





0701 Small dial gauges with lightweight plastic housing

HP



Specification

Shipment

DIN
878

- Lightweight housing made of polyamide
- Measuring spindle is made of stainless steel
- Replacement probe tip M 2.5
- Clamping shank Ø 8 mm

- Case

			Measuring range mm	Reading mm	Range per revolution mm	Outer ring (Bezel) dia. mm	Ref. No.	List price Euro
Small dial gauge:								
▪			5	0.01	0.5	40	0701 101	36.10
Shockproof small dial gauge:								
▪			5	0.01	0.5	40	0701 102	44.30

0708 Small dial gauges

HP



0708 102

Specification

Shipment

DIN
878

- Metal housing
- Measuring spindle is made of stainless steel
- Replacement probe tip M 2.5
- Clamping shank Ø 8 mm
- With a revolution counter
- DIN 878

- Case

			Measuring range mm	Reading mm	Range per revolution mm	Outer ring (Bezel) dia. mm	Ref. No.	List price Euro
Small dial gauge:								
			10	0,01	0,5	40	0708 101	77.00
▪			5	0,01	0,5	40	0708 102	49.00
			3	0,01	0,5	32	0708 103	58.00
			3	0,01	0,5	40	0708 104	40.40
Shockproof small dial gauge:								
			3	0,01	0,5	40	0708 105	49.00
			5	0,01	0,5	40	0708 106	65.00



0701 Dial gauges

HP

DIN
878



0701 110



0701 106

Specification

- Measuring spindle is made of stainless steel
- Replacement probe tip M 2.5
- Clamping shank Ø 8 mm
- DIN 878

Shipment

- Case

			Measuring range mm	Reading mm	Range per revolution mm	Outer ring (Bezel) dia. mm	Ref. No.	List price Euro
Dial gauge, plastic housing:								
▪			10	0.01	1	58	0701 103	19.90
Dial gauge, metal housing:								
▪			10	0.01	1	58	0701 110	35.70
Shockproof dial gauge, injection-moulded housing:								
▪			10	0.01	1	58	0701 106	21.00
Shockproof dial gauge, metal housing:								
▪			10	0.01	1	58	0701 111	41.10

0703 Dial gauges with extended measuring range

HP



0703 101

Specification

- Metal housing
- Measuring spindle is made of stainless steel
- Replacement probe tip M 2.5
- Clamping shank Ø 8 mm
- With a concentric pointer
- Factory standard

Shipment

- Case

			Measuring range mm	Reading mm	Range per revolution mm	Outer ring (Bezel) dia. mm	Ref. No.	List price Euro
▪			30	0.01	1	58	0703 101	87.00
▪			50	0.01	1	58	0703 104	121.00
			80	0.01	1	58	0703 107	243.00





0704 Shockproof dial gauges

HP



0704 105

0704 109

Specification

- Metal housing
- Measuring spindle is made of stainless steel
- Replacement probe tip M 2.5
- Clamping shank Ø 8 mm
- Shockproof

Shipment

- Case

DIN
878

			Measuring range mm	Reading mm	Range per revolution mm	Outer ring (Bezel) dia. mm	Ref. No.	List price Euro
Revolution counter: DIN 878								
▪			10	0.01	1	58	0704 105	62.00
With fine adjustment of the pointer: DIN 878								
▪			10	0.01	1	58	0704 106	77.00
Concentric pointer: Factory standard								
			30	0.01	1	58	0704 109	100.00
			50	0.01	1	58	0704 110	129.00

0707 Water and oil proof dial gauges

HP



0707 102

Specification

- Metal housing, water and oil proof
- Protection class IP 67
- Measuring spindle is made of stainless steel
- Replacement probe tip M 2.5
- Clamping shank Ø 8 mm
- Rubber bellows
- Shockproof
- Outer ring (Bezel) can be rotated through 360°
- DIN 878

Shipment

- Case



DIN
878

			Measuring range mm	Reading mm	Range per revolution mm	Outer ring (Bezel) dia. mm	Ref. No.	List price Euro
			3	0.01	0.5	44.6	0707 101	110.00
			10	0.01	1	61.5	0707 102	94.00



0700 Dial gauges, graduation 0,1 mm

HP



0700 102

0700 104

Specification

- Metal housing
- Measuring spindle is made of stainless steel
- Replacement probe tip M 2.5
- Clamping shank Ø 8 mm
- Factory standard

Shipment

- Case

				Measuring range mm	Reading mm	Range per revolution mm	Outer ring (Bezel) dia. mm	Ref. No.	List price Euro
▪				10	0.1	10	40	0700 100	53.00
▪				5	0.1	5	40	0700 101	53.00
▪				10	0.1	10	58	0700 102	40.90
Straight line revolution counter:									
				30	0.1	10	58	0700 104	46.90

0702 Dial gauge with concentric mm display

HP



Specification

- Metal housing
- Measuring spindle is made of stainless steel
- Replacement probe tip M 2.5
- Clamping shank Ø 8 mm
- With a concentric pointer
- DIN 878

Shipment

- Case

**DIN
878**

				Measuring range mm	Reading mm	Range per revolution mm	Outer ring (Bezel) dia. mm	Ref. No.	List price Euro
▪				10	0.01	1	58	0702 106	54.00





0705 Precision dial gauges



Specification

- Metal housing
- Measuring spindle is made of stainless steel
- Replacement probe tip M 2.5
- Clamping shank Ø 8 mm
- With revolution counter
- Factory standard

Shipment

- Case

			Measuring range mm	Reading mm	Range per revolution mm	Outer ring (Bezel) dia. mm	Ref. No.	List price Euro
			1	0.001	0.2	40	0705 102	96.00
			1	0.001	0.2	58	0705 104	96.00
			5	0.001	0.2	58	0705 105	100.00
Precision shockproof dial gauge:								
			1	0.001	0.2	40	0705 107	102.00
			5	0.001	0.2	58	0705 109	124.00

0706 Error free, shockproof dial gauge



Specification

- Metal housing
- Measuring spindle is made of stainless steel
- Replacement probe tip M 2.5
- Clamping shank Ø 8 mm
- Overtravel 9 mm
- DIN 878

Shipment

- Case

**DIN
878**

			Measuring range mm	Reading mm	Overtravel mm	Outer ring (Bezel) dia. mm	Ref. No.	List price Euro
			0.8	0.01	9	58	0706 102	62.00



0709 Dial gauges with reverse action plunger

HP



Specification

- Metal housing
- Measuring spindle is made of stainless steel
- Replacement probe tip M 2.5
- Clamping shank Ø 8 mm
- Factory standard

Shipment

- Case

			Measuring range mm	Reading mm	Range per revolution mm	Outer ring (Bezel) dia. mm	Ref. No.	List price Euro
			3	0.01	0.5	40	0709 101	92.00
			5	0.01	1	58	0709 000	110.00

0712 Dial comparator gauge MICROTAST

HP

DIN
879



0712 121



0712 124

Specification

- Measuring spindle is made of hardened stainless steel
- Longer measuring spindle
- Replacement probe tip M 2.5
- Clamping shank Ø 8 mm
- Tolerance markers
- Shockproof
- Fine adjustment
- DIN 879

Shipment

- Case

			Measuring range mm	Reading mm	Dial reading	Overtravel mm	Ref. No.	List price Euro
			0.5	0.01	25-0-25	2.5	0712 121	139.00
			0.1	0.001	50-0-50	3.0	0712 124	170.00





0710 Magnetic back

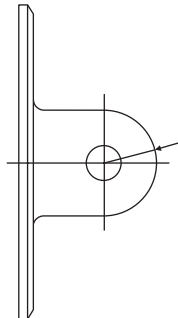


Specification

- For dial gauges with outer ring (Bezel) Ø 58 mm
- Allows dial gauges to be used without a holder or a stand
- Can not be used in conjunction with dial gauges 0701 103 and 0701 106 or all digital gauges

			Ref. No.	List price Euro
			0710 101	45.10

0710 Lug back

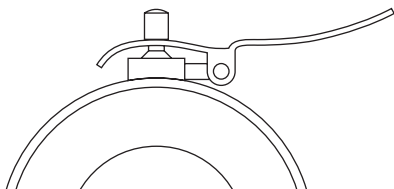


Specification

- Ø 5 mm
- For retrofitting
- Can not be used in conjunction with dial gauges 0701 103 and 0701 106 or all digital gauges

			Ref. No.	List price Euro
For dial gauges with an outer ring (Bezel) dia. 40 mm:				
			0710 102	5.90
For dial gauges with an outer ring (Bezel) dia. 58 mm:				
			0710 103	6.10

0710 Spindle lifting lever



Specification

- For dial gauges with a measuring range max. 10 mm
- Cannot be used in conjunction with dial gauges 0701 103 and 0701 106 or all digital gauges

			Ref. No.	List price Euro
For dial gauges with an outer ring (Bezel) dia. 40 mm:				
			0710 104	9.40
For dial gauges with an outer ring (Bezel) dia. 58 mm:				
			0710 105	9.40



0724 Angle lever attachment

HP



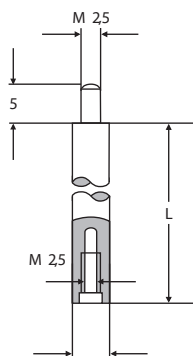
Specification

- With Ø 8 mm mounting hole for dial gauges
- Clamping shank Ø 8 mm
- Excludes dial gauge
- Smallest measurable hole: 6 mm
- Range limit: 10 mm

			Measuring depth mm	Ref. No.	List price Euro
			60	0724 101	43.10

0710 Extensions for dial gauges

HP



Specification

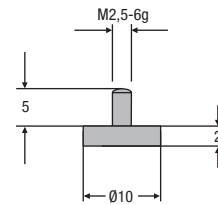
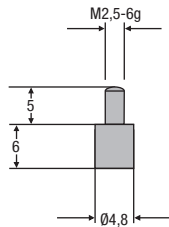
- Special steel
- Thread M 2.5

			Length (L) mm	Ref. No.	List price Euro
For measuring spindle dia. 4 mm:					
▪			10	0710 111	4.00
▪			15	0710 112	4.00
▪			20	0710 113	4.00
▪			25	0710 114	4.00
▪			30	0710 115	4.00
▪			35	0710 116	4.00
▪			40	0710 117	4.00
▪			45	0710 118	4.00
▪			50	0710 119	4.00
▪			55	0710 120	4.00
▪			60	0710 121	4.00
▪			65	0710 122	4.00
▪			70	0710 123	4.00
▪			75	0710 124	4.00
▪			80	0710 125	4.00
▪			85	0710 126	4.00
▪			90	0710 127	4.00
▪			95	0710 128	4.00
▪			100	0710 129	4.00



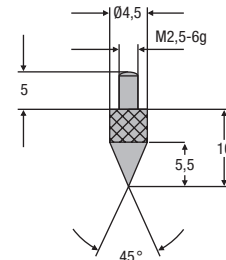
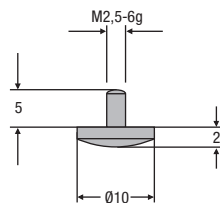


0710 Measuring inserts for dial gauges



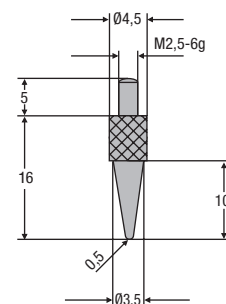
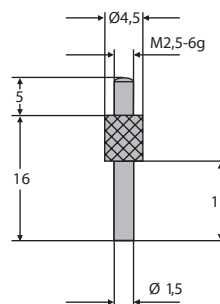
			Material	Ref. No.	List price Euro
■			Special steel	0710 161	3.10
			Carbide	0710 261	21.00

			Material	Ref. No.	List price Euro
■			Special steel	0710 162	4.00
			Carbide	0710 262	33.90



			Material	Ref. No.	List price Euro
■			Special steel	0710 163	4.60
			Carbide	0710 263	40.90

			Material	Ref. No.	List price Euro
■			Special steel	0710 164	4.60
			Carbide	0710 264	39.60



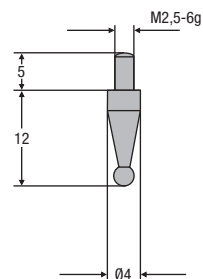
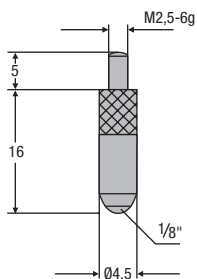
			Material	Ref. No.	List price Euro
■			Special steel	0710 165	5.70
			Carbide	0710 265	18.20

			Material	Ref. No.	List price Euro
■			Special steel	0710 166	4.20



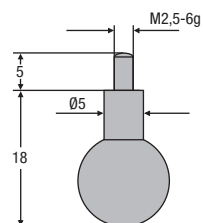
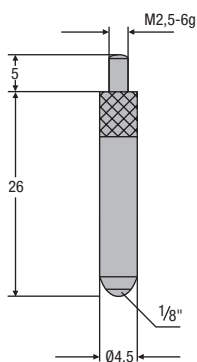
0710 Measuring inserts for dial gauges

HP



			Material	Ref. No.	List price Euro
■			Special steel	0710 167	2.90
			Carbide	0710 267	9.60
			Ruby	0710 367	7.50
			Sapphire	0710 467	7.50

			Ball dia. mm	Ref. No.	List price Euro
Special steel:					
			1.0	0710 169	5.70
			1.5	0710 170	5.70
			2.0	0710 171	5.70
			2.5	0710 172	5.70
			3.0	0710 173	5.70
			3.5	0710 174	5.70
			4.0	0710 175	5.70
			4.5	0710 176	5.70
			5.0	0710 177	5.70
			5.5	0710 178	5.70
			6.0	0710 179	5.70
			6.5	0710 180	5.70



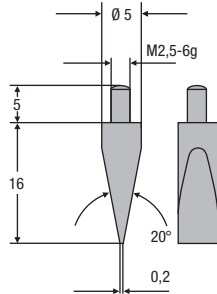
			Material	Ref. No.	List price Euro
■			Special steel	0710 168	2.90
			Carbide	0710 268	9.60
			Ruby	0710 368	7.50
			Sapphire	0710 468	7.50

			Ball dia. mm	Ref. No.	List price Euro
Special steel:					
			7.0	0710 181	5.70
			7.5	0710 182	5.70
			8.0	0710 183	5.70
			8.5	0710 184	5.70
			9.0	0710 185	5.70
			9.5	0710 186	5.70
			10.0	0710 187	5.70
			10.5	0710 188	5.70
			11.0	0710 189	5.70

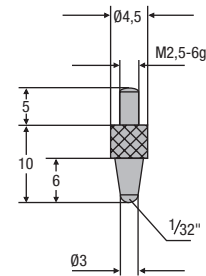




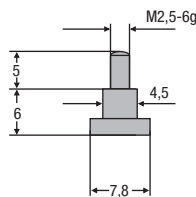
0710 Measuring inserts for dial gauges



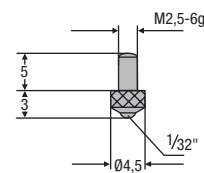
			Material	Ref. No.	List price Euro
■			Special steel	0710 192	6.10
			Carbide	0710 292	43.10



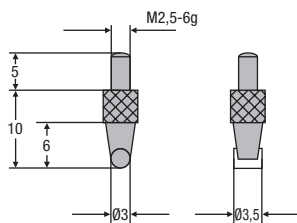
			Material	Ref. No.	List price Euro
■			Special steel	0710 193	3.10



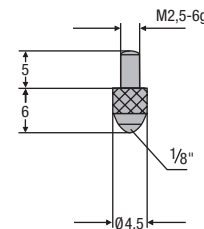
			Material	Ref. No.	List price Euro
■			Special steel	0710 194	4.20



			Material	Ref. No.	List price Euro
■			Special steel	0710 195	1.00



			Material	Ref. No.	List price Euro
■			Special steel	0710 196	6.70



			Material	Ref. No.	List price Euro
■			Special steel	0710 197	1.00
			Carbide	0710 297	4.00
			Ruby	0710 397	5.30
			Sapphire	0710 497	5.30



0715 Dial test indicators

HP

DIN
2270



Specification

- Carbide tipped measuring inserts, Ø 20 mm
- Form A in accordance to DIN 2270
- Revolving dial
- 3-piece swallow tail guide
- Automatic reversal of the counting direction

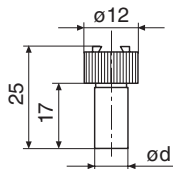
Shipment

- Includes clamping shank Ø 8 mm and key for measuring inserts
- Case

			Measuring range mm	Reading mm	Outer ring (Bezel) dia. mm	Contact insert length mm	Dial	Ref. No.	List price Euro
▪			±0.4	0.01	30.0	14.5	0-40-0	0715 101	72.00
▪			±0.4	0.01	40.5	14.5	0-40-0	0715 103	81.00
▪			±0.1	0.002	30.0	14.5	0-100-0	0515 305	96.50
▪			±0.1	0.002	40.5	14.5	0-100-0	0715 303	101.00
▪			±0.25	0.01	30.0	41.2	0-25-0	0715 201	113.00
▪			±0.5	0.01	40.5	32.3	0-50-0	0715 307	144.00

0715 Clamping shanks for dial test indicators

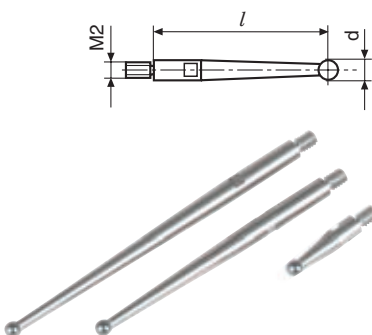
HP



			Diameter mm	Ref. No.	List price Euro
▪			4h6	0715 903	10.90
▪			8h6	0715 907	10.90

0715 Measuring inserts with carbide ball

HP



			Ball dia. mm	Length mm	Ref. No.	List price Euro
▪			1.0	14.5	0715 915	15.20
▪			2.0	14.5	0715 917	12.00
▪			3.0	14.5	0715 919	12.00
▪			1.0	32.3	0715 921	16.70
▪			2.0	32.3	0715 922	12.60
▪			3.0	32.3	0715 923	12.50
▪			1.0	41.2	0715 925	15.40
▪			2.0	41.2	0715 926	12.00
▪			3.0	41.2	0715 929	12.00

0715 Key for measuring inserts

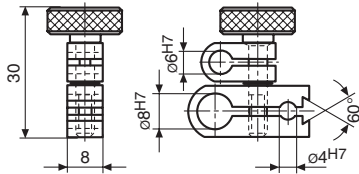
HP



			Ref. No.	List price Euro
			0715 940	2.20



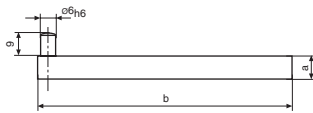
0715 Universal clamp



			Diameter mm	Ref. No.	List price Euro
			8	0715 950	22.70

- Suitable in conjunction with holder 0715 955

0715 Holder



			Length mm	Cross section mm	Ref. No.	List price Euro
			100	9 x 9	0715 955	14.40

0716 Dial depth gauges with a measuring base



0716 101



0716 111

Specification

- Measuring base is made of stainless steel, hardened
- Replacement probe tip M 2.5
- Revolving dial
- Factory standard

Shipment

- Cardboard box

			Measuring range mm	Reading mm	Contact surface measuring base mm	Range per revolution mm	Dial gauge dia. mm	Ref. No.	List price Euro
			0 - 10	0.01	100 x 15	1	58	0716 101	125.00
Concentric pointer:									
			0 - 30	0.01	150 x 15	1	58	0716 102	184.00
			0 - 30	0.01	100 x 15	1	58	0716 105	164.00
Prismatic base:									
			0 - 30	0.01	for dia. 10 - 100	1	58	0716 111	242.00

0719 Depth measuring base for indicators



Specification

- Special steel, chrome plated
- Mounting for indicator Ø 8 mm

Shipment

- Cardboard box

			Contact surface mm	Ref. No.	List price Euro
			80 x 15	0716 192	53.00
			100 x 15	0716 194	65.00
			150 x 15	0716 196	85.00



0718 Dial thickness gauges

HP



0718 101



0718 112



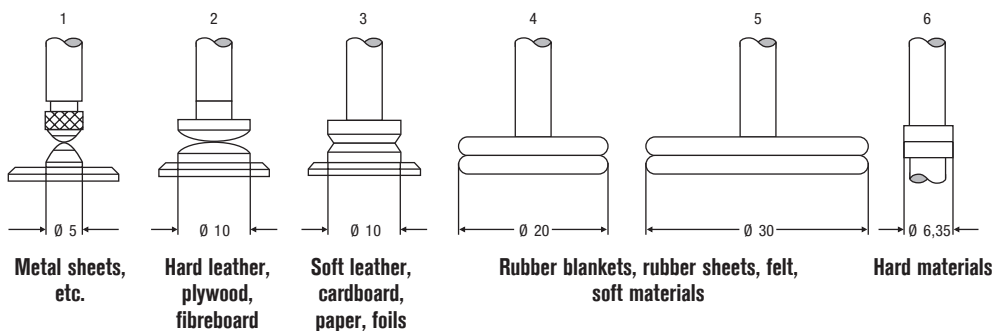
0718 108

Specification

- Frame is made of an aluminium alloy
- Factory standard
- When ordering please specify the gauge form

Shipment

- Cardboard box



			Measuring range mm	Reading mm	Type of contact points selectable	Frame depth mm	Ref. No.	List price Euro
			10	0.1	1 / 2 / 3 / 6	15	0718 101	45.80
			20	0.1	1 - 5	50	0718 104	95.00
			30	0.1	1 - 5	50	0718 105	108.00
			50	0.1	1 - 5	50	0718 106	163.00
With a lifting device and stand, range per revolution 10 mm:								
			30	0.1	1 - 5	200	0718 108	140.00
			30	0.1	1 - 5	300	0718 109	161.00
			30	0.1	1 - 5	400	0718 110	180.00
With a lifting wheel and concentric pointers, range per revolution 1 mm:								
			10	0.01	1 / 2 / 3 / 6	18	0718 112	90.00
			10	0.01	1 / 2 / 3 / 6	45	0718 113	104.00
With a lifting device, range per revolution 1 mm:								
			10	0.01	1 - 5	50	0718 115	108.00





0720 Dial thickness gauges



0720 102



0720 103

Specification

- With a lifting device
- Factory standard
- Frame is made of an aluminium alloy
- Revolution counter

Shipment

- Cardboard box

			Measuring range mm	Reading mm	Range per revolution mm	Frame depth mm	Ref. No.	List price Euro
Tube wall thickness dial gauge, collar with radius 1 mm:								
			10	0.01	1	50	0720 102	143.00
Thin foil thickness dial gauge, measuring insert dia. 6.35 mm flat, handle is thermally insulated:								
			1	0.001	0.2	30	0720 103	204.00



0721 Internal caliper gauges

HP



0721 120

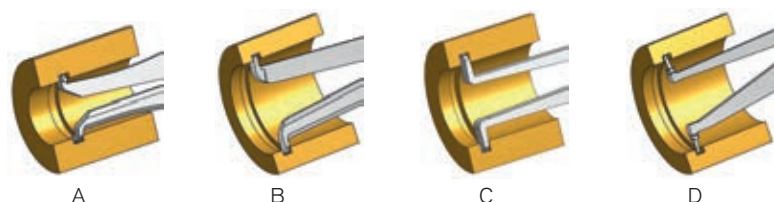
Specification



- Protection class IP 65

Shipment

- Cardboard box



			Measuring range mm	Reading mm	Measuring depth	For grooves		Ref. No.	List price Euro
						max. depth	min. width		
Contact point type "A", cutting (chisel) radius 0.1 mm:									
			2.5 - 12.5	0.005	12	0.7	0.6	0721 100	460.00
Contact point type "B", carbide ball Ø 0.6 mm:									
			5 - 15	0.005	35	2.2	0.8	0721 101	460.00
Contact point type "B", carbide ball Ø 1.0 mm:									
			10 - 30	0.01	85	5.2	1.2	0721 120	476.00
Contact point type "C", carbide ball Ø 1.0 mm:									
			20 - 40	0.01	85	7.0	1.2	0721 121	476.00
			30 - 50	0.01	85	7.0	1.2	0721 122	476.00
Contact point type "D", carbide ball Ø 1.0 mm:									
			40 - 60	0.01	85	8.3	1.2	0721 123	476.00
			50 - 70	0.01	85	8.3	1.2	0721 124	492.00
			60 - 80	0.01	85	8.3	1.2	0721 125	492.00
			70 - 90	0.01	85	8.3	1.2	0721 126	492.00
			80 - 100	0.01	85	8.3	1.2	0721 127	492.00





0721 External caliper gauges

HP



Specification

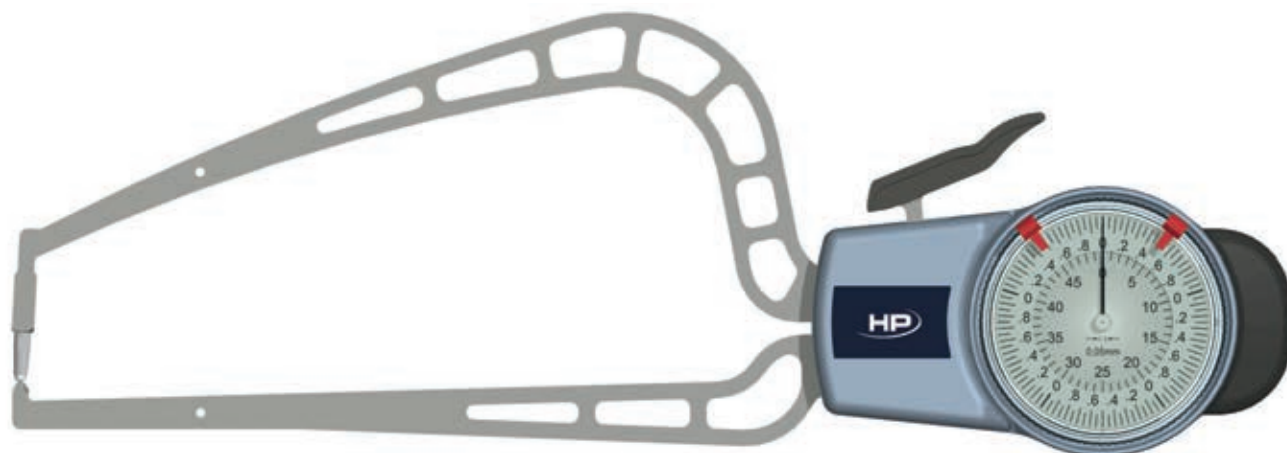
- Protection class IP 65

Shipment

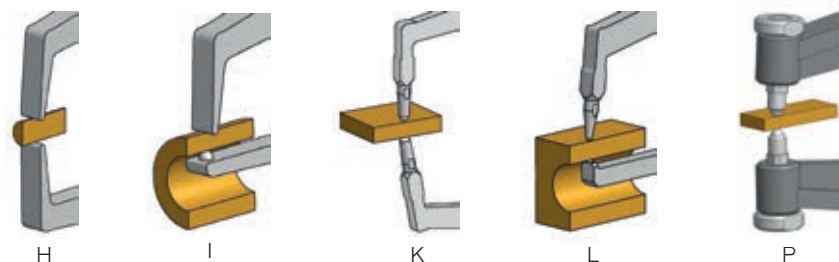
- Cardboard box



0721 144



0721 149



			Measuring range mm	Reading mm	Measuring depth	Contact point length fixed	Contact point length moving	Ref. No.	List price Euro
Contact point type "H", cutting chisel radius 0.4 mm:									
			0 - 10	0.005	35	18.8	18.5	0721 141	460.00
Contact point type "I", fixed arm, carbide ball Ø 1.5 mm, moving arm, cutting (chisel) radius R = 0.4 mm:									
			0 - 10	0.005	35	18.8	0.9	0721 142	460.00
Contact point type "K", carbide ball Ø 1.5 mm:									
			0 - 10	0.005	35	19.1	18.6	0721 143	460.00
			0 - 20	0.01	85	24.6	24.6	0721 144	460.00
Contact point type "L", carbide ball Ø 1.5 mm, 1 straight probe arm:									
			0 - 20	0.01	85	24.6	2.5	0721 145	460.00
Contact point type "P", carbide ball Ø 2.0 mm:									
			0 - 10	0.1	36	5.0	5.0	0721 140	130.00
Contact point type "K", carbide ball Ø 2.0 mm:									
			0 - 50	0.05	167	30.0	30.0	0721 148	700.00
Contact point type "L", carbide ball Ø 2.0 mm, 1 straight probe arm:									
			0 - 50	0.05	169	30.0	4.6	0721 149	700.00



0721 Digital internal caliper gauges

HP



Specification

- Protection class IP 67

Electronic functions

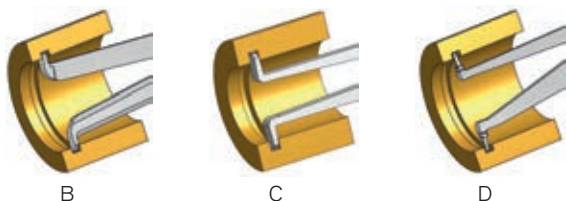
- ON/OFF switch
- mm/inch conversion
- Absolute/Relative measurement
- Tolerance function
- Red/green indication
- (LED) for tolerance measurements
- Data output



0721 732



0721 738



B

C

D

Shipment

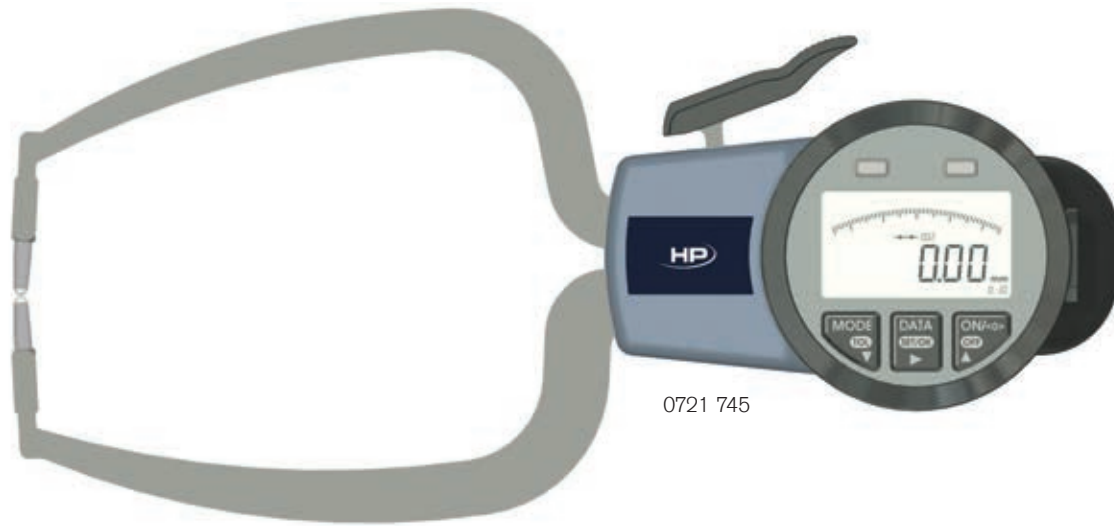
- Cardboard box

			Measuring range mm	Reading mm	Measuring depth	For grooves		Ref. No.	List price Euro
						max. depth	min. width		
Contact point type "B", cutting (chisel) radius 0.1 mm:									
			5 - 15	0.005	35	2.3	0.8	0721 731	492.00
Contact point type "B", carbide ball Ø 0.4 mm:									
			10 - 30	0.01	85	5.2	1.2	0721 732	492.00
Contact point type "C", carbide ball Ø 1.0 mm:									
			20 - 40	0.01	85	7.0	1.2	0721 733	492.00
			30 - 50	0.01	85	7.0	1.2	0721 734	492.00
Contact point type "C", carbide ball Ø 1.5 mm:									
			13 - 43	0.02	127	5.5	1.8	0721 738	492.00
Contact point type "D", carbide ball Ø 2.0 mm:									
			50 - 80	0.02	127	6.5	2.5	0721 739	627.00
Contact point type "C", carbide ball Ø 1.5 mm:									
			15 - 65	0.02	188	6.0	2.0	0721 740	865.00

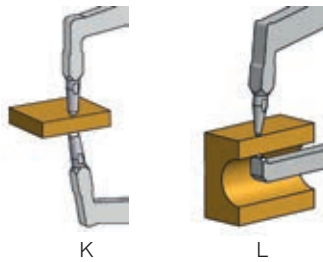




0721 Digital external caliper gauges



0721 745



Electronic functions




- ON/OFF switch
- mm/inch conversion
- Absolute/Relative measurement
- Tolerance function
- Red/green-indication (LED) for tolerance measurements
- Data output

Specification

- Protection class IP 67

Shipment

- Cardboard box

			Measuring range mm	Reading mm	Measuring depth	Contact point length moving	fixed	Ref. No.	List price Euro
Contact point type "K", carbide ball Ø 1.5 mm:									
			0 - 20	0.01	85	24.6	24.6	0721 741	492.00
Contact point type "K", carbide ball Ø 3.0 mm:									
			0 - 30	0.02	115	30.0	30.0	0721 742	627.00
Contact point type "L", carbide ball Ø 3.0 mm, straight lower probe arm:									
			0 - 30	0.02	115	30.0	1.0	0721 743	627.00
Contact point type "K", carbide ball Ø 5.0 mm:									
			0 - 50	0.02	167	30.0	30.0	0721 747	865.00

0721 Accessories for caliper gauges



	Ref. No.	List price Euro
Data interface (adapter and cable) for USB*	0721 786	131.00
Data interface (adapter and cable) for Mitutoyo Digimatic*	0721 785	131.00

* When placing an order, please specify the reference no. and the type of the caliper gauge.



0726 Internal precision bore gauges, set for smaller bores

HP



Specification

- 2 point comparator measuring instrument with split probe + measuring pin
- Excludes a dial gauge
- Without a setting ring
- Mounting hole Ø 8 mm
- Ideal in conjunction with dial gauges or dial comparator gauges

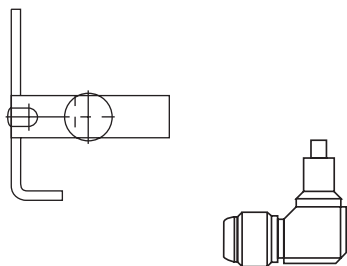
Shipment

- Wooden case

			Nominal meas. range mm	Effective meas. range mm	Measuring depth mm	Number of probes mm	Ref. No.	List price Euro
Hardened chrome plated probe:								
			4.5 - 7.5	4.15 - 7.8	41 - 45	7	0726 310	492.00
			8.0 - 12.0	7.7 - 12.5	45	6	0726 311	502.00
			4.5 - 12.0	4.15 - 12.5	41 - 45	13	0726 312	825.00
			13.0 - 20.0	12.2 - 20.6	45	8	0726 313	600.00
Carbide tipped probe:								
			1.0 - 1.4	0.95 - 1.55	13	5	0726 500	522.00
			1.75 - 4.0	1.5 - 4.2	17 - 25	10	0726 501	688.00
			1.0 - 4.0	0.95 - 4.2	13 - 25	15	0726 502	1,072.00
			4.5 - 7.5	4.15 - 7.8	41 - 45	7	0726 510	777.00
			8.0 - 12.0	7.7 - 12.5	45	6	0726 511	739.00
			4.5 - 12.0	4.15 - 12.5	41 - 45	13	0726 512	1,347.00
			13.0 - 20.0	12.2 - 20.6	45	8	0726 513	913.00

Accessories for 0726

HP



			For measuring range mm	Ref. No.	List price Euro
Clamp with depth stop:					
			1.0 - 4.0	0726 122	116.00
			4.5 - 9.0	0726 123	116.00
			10.0 - 20.0	0726 124	116.00
Angle probe 90°:					
			1.0 - 20.0	0726 130	212.00

Set of setting rings

HP

			For measuring range mm	Set pieces	Ref. No.	List price Euro
			1.0 - 1.4	5	0726 300	273.00
			8.0 - 12.0	6	0726 301	222.00
			1.0 - 4.0	15	0726 302	632.00
			4.5 - 12.0	13	0726 303	468.00
			13.0 - 20.0	8	0726 304	350.00
			1.75 - 4.0	10	0726 305	362.00
			4.5 - 7.5	7	0726 306	250.00





0728 Internal precision bore gauges for large and depth bores



Specification

- 2 point comparator measuring instrument to determine the reversal point
- Centering plate
- Mounting hole Ø 8 mm
- Ideal in conjunction with dial gauges or dial comparator gauges
- Excludes dial gauge

Shipment

- Wooden case

			Measuring range mm	Measuring depth mm	Repeatability µm	Number of measuring pins	Measuring discs	Ref. No.	List price Euro
Fixed measuring pins, hardened special steel, interchangeable contact pins carbide tipped:									
▪			18 - 35	110	0.5	9	2	0728 105	295.00
▪			35 - 60	138	0.5	7	2	0728 106	287.00
▪			50 - 100	177	0.5	11	3	0728 107	323.00
▪			100 - 160	234	0.5	7	4	0728 108	452.00
			160 - 290	234	0.5	7	4	0728 109	654.00
			280 - 510	400	1.5	7	4	0728 110	1,607.00
Fixed measuring pins and interchangeable contact pins, both pins are carbide tipped:									
			4.5 - 6	80	0.5	9	—	0728 201	761.00
			6 - 8	100	0.5	7	—	0728 202	529.00
			8 - 12	100	0.5	9	—	0728 203	501.00
			12 - 20	110	0.5	9	1	0728 204	340.00
▪			18 - 35	110	0.5	9	2	0728 205	367.00
▪			35 - 60	138	0.5	7	2	0728 206	352.00
▪			50 - 100	177	0.5	11	3	0728 207	402.00
▪			100 - 160	234	0.5	7	4	0728 208	522.00
			160 - 290	234	0.5	7	4	0728 209	709.00
			280 - 510	400	1.5	7	4	0728 210	1,665.00

0728 Setting device for internal precision bore gauges



Specification

- Setting device for accurate adjustment of internal precision bore gauges to the required nominal dimension in with gauge blocks
- The setting jaws are made of carbide and are lapped to gauge block quality
- Setting device can be used in both, the vertical and

horizontal measuring axis

- Supplied with: Stand (excludes gauge blocks)

Shipment

- Wooden case

			For measuring range mm	Accuracy µm	Ref. No.	List price Euro
			4.5 - 160	2.0	0728 910	963.00
			18 - 290	2.0	0728 915	952.00
			160 - 510	2.0	0728 920	1,493.00



0735 Crankshaft gauges

HP



Specification

- With dial gauge
- To be positioned between 2 crank arms
- Centre punch is not required
- Horizontal position of the dial gauge is assured with a plumb bob

Shipment

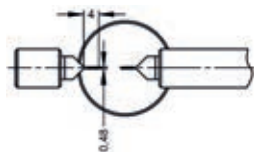
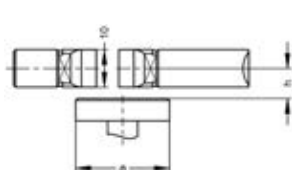
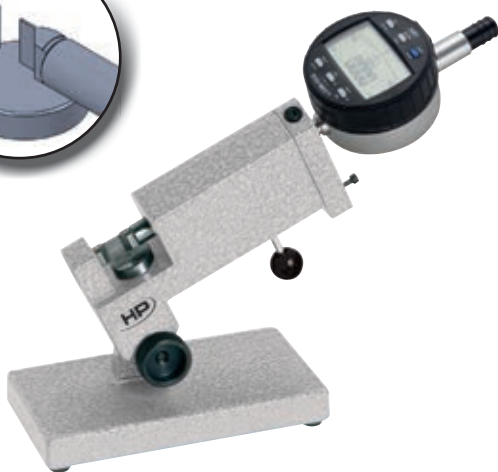
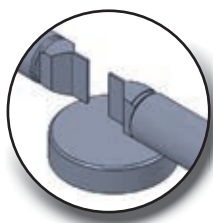
- Wooden case



			Measuring range mm	Reading mm	Ref. No.	List price Euro
			45 - 150	0.01	0735 101	366.00
			60 - 300	0.01	0735 102	330.00
			60 - 500	0.01	0735 103	384.00

0736 Length measuring instruments for external incisions

HP



Specification

- Ideal for serial measurements of incision diameters on turned parts
- Narrow measuring faces made of hardened steel
- High precision ball guide of the transmission bolt
- Round support table, height adjustable, clamped for setting the exact measuring position
- Heavy stand
- Base unit in the angular grid 0°/30°/60°/90°
- tilted and clamped
- Support for indicators with shaft Ø 8 mm
- Display devices: analogue or digital indicators
- Versions with other measuring inserts are available upon request.

Shipment

- Without digital indicator (indicators see pages 3/2 and following)
- Cardboard box

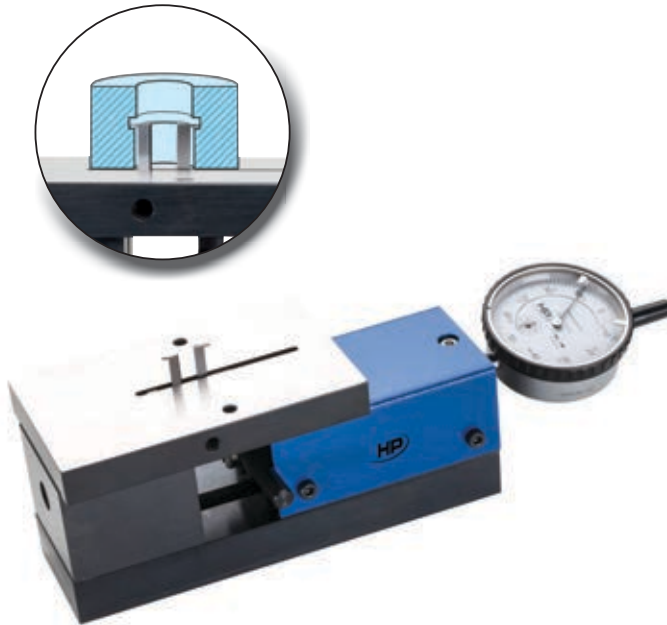
			Measuring range mm	Support table-Ø mm	max. distance "h" mm	Ref. No.	List price Euro
			0 - 10	25	8	0736 101	845.00
			0 - 25	38	13	0736 102	912.00
			25 - 50	50	35	0736 103	977.00





0737 Length measuring instrument for internal incisions

HP



Specification

- Ideal for serial measurements of internal incision diameters
- High precision probe guidance with a constant measuring force
- Adjust the height with a gauge block
- Set the diameter with a setting ring
- Measuring table plate size 110 x 73 mm
- Mounting hole Ø 8 mm
- Ideal for analogue and digital dial gauges as well as electronic probes
- Optional angled probes made of hardened steel

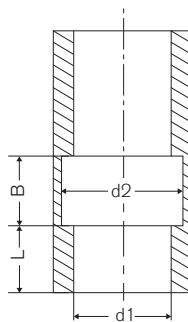
Shipment

- Without probe
- Cardboard box

			Internal diameter mm	Ref. No.	List price Euro
▪			4 - 56	0737 101	823.00

Measuring probes (pair) made of hardened steel for 0737

HP

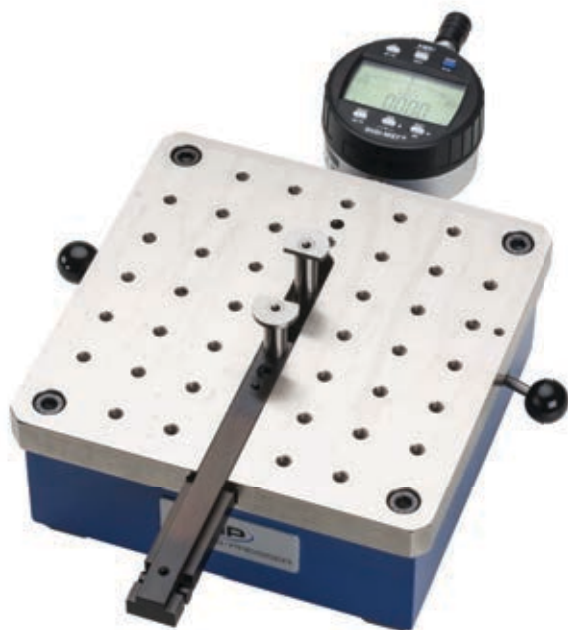


			For bore Ø "d1" mm	Max. incision Ø "d2" mm	Min. groove width "m" Ø mm	Adjustable meas. height "n" mm	Ref. No.	List price Euro
			4 - 28	d1 + 2 mm	0.74	0 - 8	0737 121	82.00
			6.5 - 30	d1 + 4 mm	1.0	0 - 10	0737 122	82.00
			13 - 38	d1 + 2 mm	1.2	0 - 18	0737 123	82.00
			20.5 - 51	d1 + 4 mm	1.2	0 - 25	0737 124	82.00

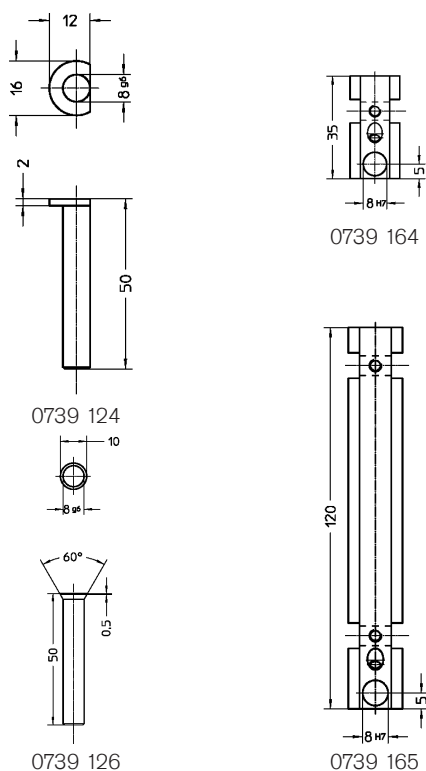


0739 Universal comparator gauge

HP



Basic comparator gauge consists of:



Specification

- To determine internal and external diameters of recesses, grooves and undercuts in comparison measurement
- Measurement procedure: The part to be measured is determined at the point of reversal between a fixed and moveable measuring insert
- Select either an analogue or digital indicator to show your measurement results
- Robust construction
- Simple to set up and easy to operate
- Large range of application
- Ideal for serial measurements
- Optional: Special supporting table is interchangeable
- Internal measurements: 21 – 200 mm
- External measurements: 0 – 180 mm
- Repeatability: 2 µm
- Mounting hole for a dial gauge: Ø 8 mm
- Supplied with: Pair of measuring inserts 0739 126 and 0739 124, holder for measuring inserts 0739 164

Shipment

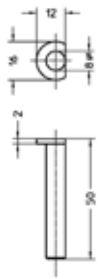
- Aluminium case

		Dimensions mm	Ref. No.	List price Euro
▪		150 x 150 x 68	0739 102	1,598.00

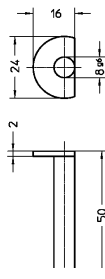




0739 Pairs of measuring inserts



0739 124



0739 125

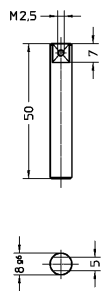


0739 126

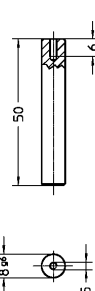
		Item	Ref. No.	List price Euro
		Probe pair	0739 124	96.00
		Probe pair	0739 125	100.00
		Probe pair	0739 126	57.00
		Probe pair	0739 127*	91.00
		Probe pair	0739 128*	57.00
		Probe pair	0739 129*	111.00
		Probe pair	0739 130	92.00
		Small probe pair	0739 131**	100.00
		Holder pair for 0739 131	0739 132	133.00

* For further information regarding probes Ref. No. 0739 127 to 0739 129 see Ref. No. 0710 ... starting on page 3/14

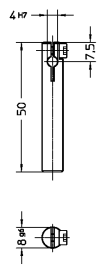
** Required holder No. 0739 132



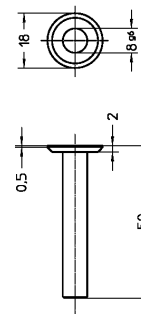
0739 127



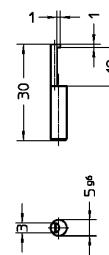
0739 128



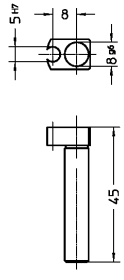
0739 129



0739 130

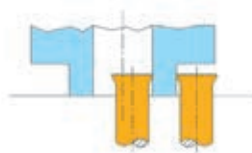


0739 131

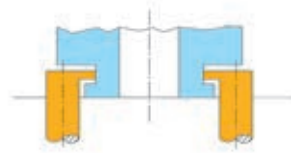


0739 132

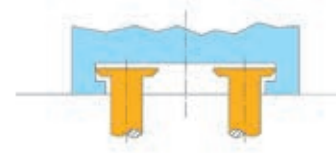
Application examples:



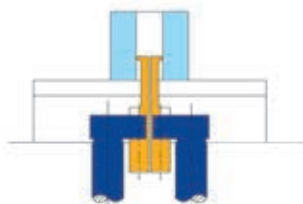
0739 126



0739 124



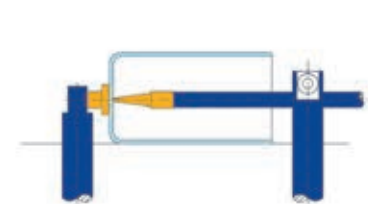
0739 130



0739 131 and 0736 132



0739 128* and 0736 127*

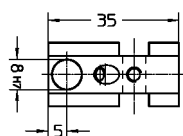


0739 127* and 0736 129*

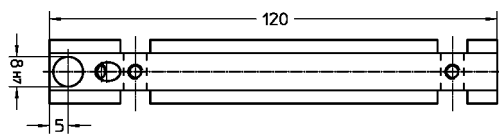


0739 Holder for measuring inserts short/long

HP



0739 164



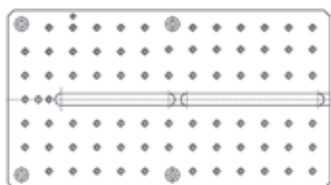
0739 165



	Ref. No.	List price Euro
Holder, short:	0739 164	34.60
Holder, long:	0739 165	42.80

0739 Large supporting table

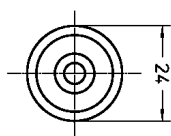
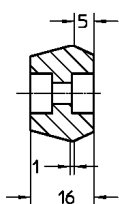
HP



Dimensions mm	Ref. No.	List price Euro
269 x 149	0739 170	171.00

0739 Pairs of measuring inserts

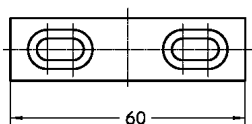
HP



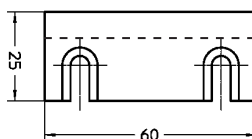
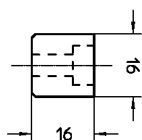
0739 122



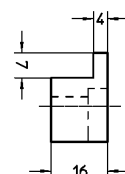
Item	Ref. No.	List price Euro
Stop cuboid	0739 121	82.00
Stop disc	0739 122	92.00
Stop stepped cuboid	0739 123	85.00



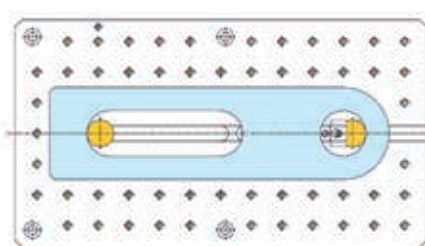
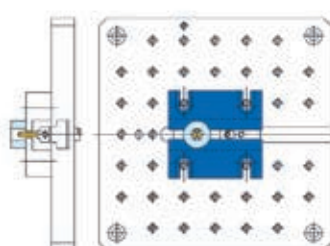
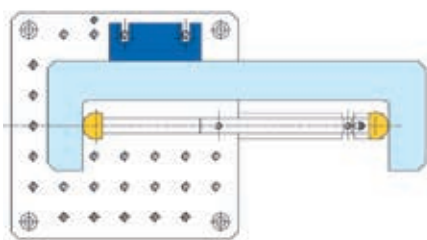
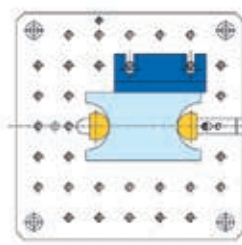
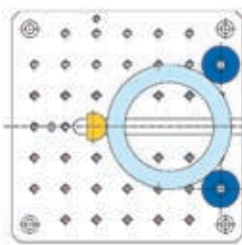
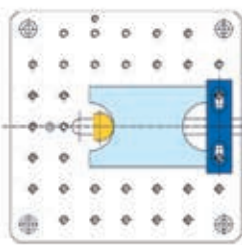
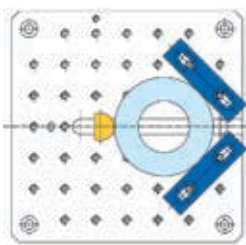
0739 121



0739 123



Application examples:





0741 Universal comparator gauge UHRTAST



Specification

- Comparator gauge for external and internal measurements. Ideal for testing workpieces and setting machines.
- Versatile for comparative measurements due to the large choice of probes and measuring inserts
- Measuring range can be increased up to 2000 mm by using optional extensions
- The direction of the measuring force is reversible, thus allowing the instrument to be used for both external and internal measurements
- The setting of the universal comparator gauge can be conducted with an adjusting instrument, a master piece, a gauge block combination, a ring gauge or a micrometer
- Measuring range can be extended in conjunction with the extensions
- Excludes a dial gauge

Shipment

- Wooden case

0741 Basic comparator gauge



			Internal measurement mm	External measurement mm	Ref. No.	List price Euro
			15 - 230	5 - 220	0741 101	1,672.00

Extensions



0741 112



0741 114



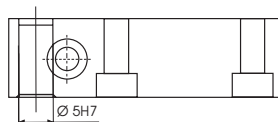
0741 116

			Length mm	Ref. No.	List price Euro
			100	0741 112	233.00
			200	0741 114	247.00
			500	0741 116	377.00



Pair of probe mounting block

HP



Ref. No.

List price

Euro

0741 170

154.00

Pairs of ball measuring inserts

HP



0741 178



0741 179



Length
mm

Ref. No.

List price

Euro

23

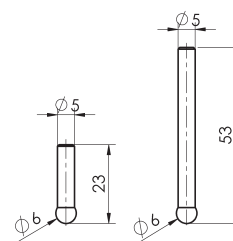
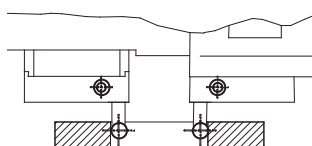
0741 178

103.00

53

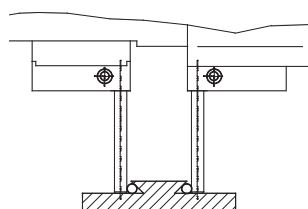
0741 179

103.00



Pair of cylindrical measuring inserts

HP



Length
mm

Ref. No.

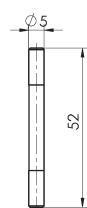
List price

Euro

52

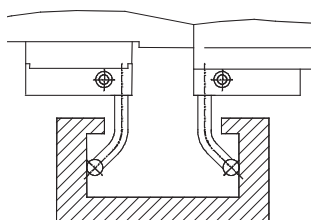
0741 180

103.00



Pair of offset measuring inserts

HP



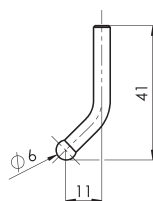
Ref. No.

List price

Euro

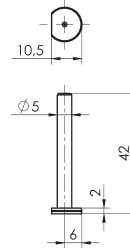
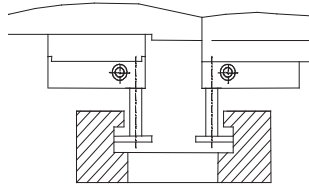
0741 182

171.00



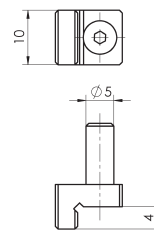
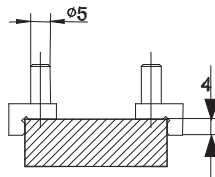


Pair of measuring inserts with discs



			Ref. No.	List price Euro
			0741 176	103.00

Pair of shoulder measuring inserts

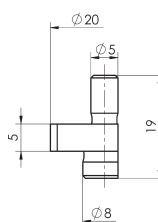
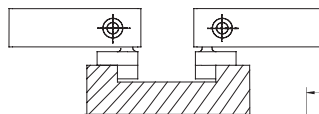


Specification

- For measuring external centre points

			Ref. No.	List price Euro
			0741 172	184.00

Pair of shoulder measuring inserts



Specification

- For measuring internal centre points

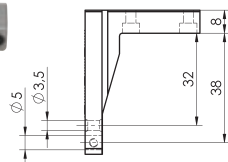
			Ref. No.	List price Euro
			0741 174	150.00



Pairs of measuring arms



0741 122



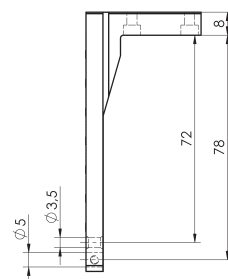
Specification

- Measuring arms are reversible for internal and external measurement
- Mounting bores: 3.5 and 5 mm

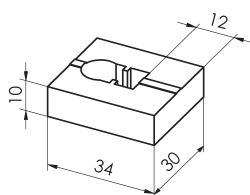
			Length mm	Ref. No.	List price Euro
			40	0741 122	242.00
			80	0741 124	291.00



0741 124

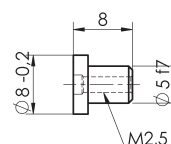


Pair of depth stop attachment for measuring arms



			Ref. No.	List price Euro
			0741 136	225.00

Pair of adapters 5 mm for measuring inserts M2.5



Specification

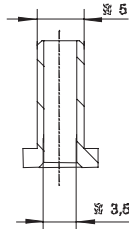
- All measuring inserts for dial gauges with M2.5 can be used (measuring inserts please refer to pages 3/15 - 3/17)

			Ref. No.	List price Euro
			0741 132	79.00





Pair of adapters for thread measuring inserts (pair)

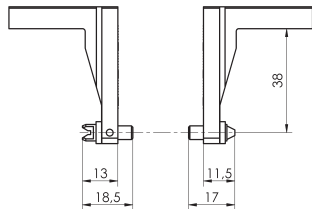


Specification

- Adapter for thread measuring inserts with a long shank
- Measuring inserts that have a short shank, the adapter is not required

			Ref. No.	List price Euro
			0741 134	137.00

Pairs of thread measuring inserts for metric internal thread

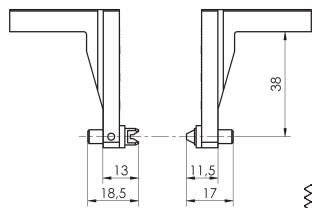


Specification

- Thread measuring inserts for internal thread, metric pitch in pairs

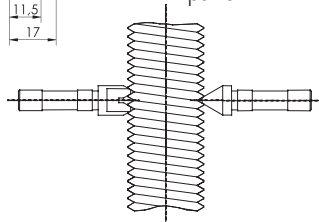
			Pitch mm	Ref. No.	List price Euro
			0.4 - 0.45	0741 160	196.00
			0.5 - 0.6	0741 161	196.00
			0.7 - 0.8	0741 162	196.00
			1.0 - 1.25	0741 163	196.00
			1.5 - 1.75	0741 164	196.00
			2.0 - 2.5	0741 165	196.00
			3.0 - 3.5	0741 166	196.00
			4.0 - 5.0	0741 167	196.00
			5.5 - 6.0	0741 168	196.00

Pairs of thread measuring inserts for metric external thread



Specification

- Thread measuring inserts for external thread, metric pitch in pairs



			Pitch mm	Ref. No.	List price Euro
			0.35	0741 140	172.00
			0.4 - 0.45	0741 141	97.00
			0.5 - 0.6	0741 142	97.00
			0.7 - 0.8	0741 143	97.00
			1.0 - 1.25	0741 144	97.00
			1.5 - 1.75	0741 145	97.00
			2.0 - 2.5	0741 146	97.00
			3.0 - 3.5	0741 147	97.00
			4.0 - 5.0	0741 148	97.00
			5.5 - 6.0	0741 149	97.00

Measuring table



Specification

- Consists of a support table Ø = 180 mm, holder for probe, supports (excludes dial gauge and probe)

			Ref. No.	List price Euro
			0741 184	583.00



0750 Universal indicator stands with magnetic base

HP



Specification

- Chrome plated columns
- Base with V-groove
- Magnet with ON/OFF switch
- Magnetic force: 600 N or 800 N*
- Mounting clamp: Ø 8 mm for dial gauges, swallow tail clamp for dial test indicators
- Integrated fine adjustment

Shipment

- Without indicator
- Cardboard box

			Height of column mm	Reach mm	Column / Bar dia. mm	Magnetic base L x W x H mm	Ref. No.	List price Euro
Crosshead clamp:								
▪			285	180	16/16	70 x 46 x 65	0750 101	93.00
▪			500	180	20/16	75 x 60 x 80	0750 102*	167.00

Accessories

	Ref. No.	List price Euro
Wooden case for 0750 101 + 0750 103	0750 601	22.50

Pillar with transverse arm and fine adjustment

HP



			For article	Ref. No.	List price Euro
			0750 101	0750 121	32.30
			0750 102	0750 122	59.00
			0750 103	0750 123	84.00

Magnetic base

HP



			Thread	Dimensions L x W x H	Magnetic force N	Ref. No.	List price Euro
			M10	70 x 45 x 55	600	0750 111	53.00
			M12	75 x 60 x 80	800	0750 112	98.00





0752 Magnetic indicator stands with central lock



Specification

- Column/Bar:
 - 0752 101 steel, chrome plated
 - 0752 103 aluminium, anodized
- Switch magnetic base with V-groove
- Magnetic force 600 N
- Central magnetic clamping system
- Mounting clamp:
 - Ø 8 mm for dial gauges, swallow tail clamp for dial test indicators
- Integrated fine adjustment

Shipment

- Cardboard box

0752 101

0752 103

				Max height mm	Radius mm	Column / Bar dia. mm	Magnetic base L x W x H mm	Ref. No.	List price Euro
▪				310	260	10	70 x 46 x 65	0752 101	129.00
▪				370	320	18	70 x 46 x 65	0752 103	165.00

0754 Universal magnetic holder



Specification

- Magnetic base with V-groove
- With mounting hole Ø 8 mm
- Three-sided magnet

Shipment

- Cardboard box

				Max. height mm	Support face mm	Magnetic force N	Ref. No.	List price Euro
▪				57	70 x 35	260	0754 101	88.00



0751 Magnetic indicator stands with flexible arm

HP



0751 103



0751 104

Specification 0751 103

- With articulated (flexible) arm
- Eccentric clamp by lever
- Switch magnetic base, Magnetic force: 600 N

Specification 0751 104

- Fixed column
- With fine adjustment
- Flexible transverse arm
- Switch magnetic base, Magnetic force: 600 N

Shipment

- Cardboard box

			Height of column mm	Base L x W x H mm	Ref. No.	List price Euro
Heavy duty stand:			350	70 x 45 x 65	0751 103	106.00
Clamping via. the star knob screw:			350	70 x 45 x 65	0751 104	123.00

0756 Universal magnetic holder

HP



Specification

- Cast iron base with two magnets on the underside of the holder
- With mounting hole Ø 8 mm

Shipment

- Cardboard box

			Max. height mm	Support face mm	Magnetic force N	Ref. No.	List price Euro
▪			45	72 x 37	180	0756 101	53.00





0770 Compact measuring stands



0770 102

Specification

- Cast base
- Chrome plated columns
- Hardened steel table
- With dust grooves (Ref. No. 0770 102 non-stop plane)
- With mounting hole for dial gauges Ø 8 mm

Shipment

- Cardboard box



0770 103



0770 201

			Measuring height mm	Reach mm	Column dia. mm	Transverse arm dia. mm	Table surface mm	Ref. No.	List price Euro
With fixed arm:									
			100	49	22	—	dia. 50	0770 102	158.00
			100	49	22	—	60 x 68	0770 103	200.00
With adjustable transverse arm:									
			100	100	22	18	60 x 68	0770 201	202.00
			150	135	28	20	98 x 115	0770 205	313.00



0772 Measuring stand

HP



Specification

- Cast base
- Hardened steel table
- With dust grooves
- With a threaded column and an adjustable transverse arm
- With mounting hole for dial gauges Ø 8 mm

Shipment

- Cardboard box

			Measuring height mm	Reach mm	Column dia. mm	Transverse arm dia. mm	Table surface mm	Ref. No.	List price Euro
			160	200	35	22	170 x 215	0772 024	681.00

0785 Precision measuring stands

HP



Specification

- Base made of hard stone
- Base plate accuracy according to DIN 876-00
- With a threaded column and chrome plated transverse arm
- With adjustable transverse arm
- With mounting hole for dial gauges Ø 8 mm
- Vertical adjustment by threaded spindle with setting ring

Shipment

- Cardboard box

			Meas. height mm	Reach mm	Column dia. mm	Transverse arm dia. mm	Table surface mm	Ref. No.	List price Euro
			200	200	35	22	150 x 200	0785 108	573.00
		▪	220	220	35	22	260 x 300	0785 109	1,405.00
Anti-twist (secured against rotation) transverse arm:									
		▪	220	220	35	22	260 x 300	0785 110	1,615.00





0763 Universal measuring support



Specification

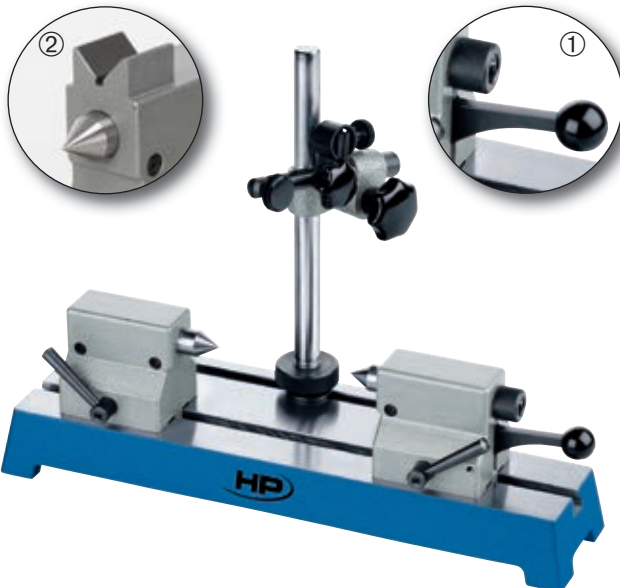
- Column and transverse arm chrome plated
- Heavy base plate with prismatic base and T-groove
- Column is moving and can be clamped in the T-groove
- Mounting clamp: Ø 8 mm for dial gauges, swallow tail clamp for dial test indicators
- Fine adjustment

Shipment

- Cardboard box

			Height of column mm	Base dimensions L x W x H mm	Transverse arm dia. mm	Ref. No.	List price Euro
			300	250 x 60 x 35	16/16	0763 100	251.00

0780 Bench centres



DIN
876-2

Specification

- Finely ground surface, flatness tolerance according to DIN 876-2
- With two adjustable tailstocks
- Left tailstock with fixed centre
- Right tailstock with retractable spring mounted centre, stroke ca. 10 mm
- Tailstocks can be clamped via an eccentric clamp
- Tailstocks height 75 mm with integrated V-groove support ②
- Quick-clamping device by clamping lever ①
- With T-groove and support column
- With mounting hole for dial gauges Ø 8 mm.

Shipment

- Cardboard box

			Height of centres mm	Max. work load per tailstock (kg)	Width between centres mm	Width of T grooves mm	Base mm	Ref. No.	List price Euro
▪			50	5	200	10	350 x 110	0780 101	543.00
▪			50	5	350	10	500 x 110	0780 102	689.00
▪			75	5	200	10	350 x 110	0780 104*	621.00
▪			75	5	350	10	500 x 110	0780 105*	707.00
		▪	100	20	450	12	700 x 180	0780 107	1,781.00
		▪	150	20	450	12	700 x 180	0780 108	1,985.00

* With integrated V-groove support on the tailstocks



0780 Bench centres for heavy workpieces

HP

DIN
876-2



Specification

- Finely ground surface, flatness tolerance according to DIN 876-2
- With two adjustable tailstocks
- Left tailstock with fixed centre
- Right heavy tailstock with moveable, spring mounted centre, stroke ca. 10 mm
- Tighten by hand crank ①
- Tailstocks can be clamped via an eccentric clamp
- Base made of cast iron with T-groove
- Measuring stand with mounting hole for dial gauges Ø 8 mm

Shipment

- Without indicator
- Cardboard box

			Height of centres mm	Max work load per tailstock (kg)	Width between centres mm	Width of T grooves mm	Base mm	Ref. No.	List price Euro
		▪	100	40	450	12	700 x 180	0780 141	1,900.00
		▪	150	40	450	12	700 x 180	0780 142	2,150.00

Pair of v-support inserts

HP



			For height of centres mm	V-support dia. mm	Ref. No.	List price Euro
			50/75	3 - 15	0780 021	79.00
			100	8 - 45	0780 023	120.00

- These v-support inserts replace the pointed inserts in the tailstocks

Replacement support column

HP



			For height of centres mm	Height of column mm	For width of T grooves mm	Ref. No.	List price Euro
			50/75	200	10	0780 072	94.00
			100	240	12	0780 073	115.00
			150	440	12	0780 074	130.00





Left tailstocks with a rotating collect chuck



				Height of centres mm	For width of T grooves mm	Collet chuck mm	Ref. No.	List price Euro
▪				50	10	F10	0780 001	337.00
▪				75	10	F10	0780 002	374.00
				100	12	F14	0780 003*	583.00

- Collet chucks F10 from 1-7 mm are available upon request
- Collet chucks F14 from 1-10 mm are available upon request*

Pair of replacement tailstocks for 0780



Specification

- As included with the basic bench centre 0780
- 75 mm with V-groove support
- For heavy workpieces, height of centres 100 mm and 150 mm up to a single load of 40 kg on request

				Height of centres mm	For width of T grooves mm	Ref. No.	List price Euro
▪				50	10	0780 091	341.00
▪				75	10	0780 092	384.00
				100	12	0780 093	789.00
				150	12	0780 094	815.00

Pair of v-groove supports for 0780



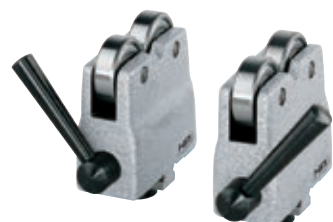
Specification

- Are used instead of the tailstocks on the base
- V-groove surfaces are hardened, replaceable

				Height* mm	For width of T grooves mm	Surface dia. mm	Ref. No.	List price Euro
				65	10	5 - 25	0780 032	145.00
				100	12	5 - 50	0780 033	208.00

* based on the center of an axis of a shaft Ø 10 mm

Pair of roller supports for 0780



Specification

- Are used in place of the tailstocks on the base
- Runout tolerance of the rollers: 0.005 mm

				Height* mm	Width of T grooves mm	Surface dia. mm	Ref. No.	List price Euro
				65	10	3 - 30	0780 042	173.00
				100	12	4 - 60	0780 043	234.00

* based on the center of an axis of a shaft Ø 10 mm



0783 Bench centre

HP

DIN
876-1



Specification

- Dark granite work bench
- Flatness tolerance in accordance to DIN 876/1
- Right tailstock with retractable spring mounted centre (quick adjustment lever)
- Left tailstock with fixed centre
- Tailstocks can be adjusted via an eccentric clamp

Shipment

- Wooden box
- Supplied with:
 - Work bench
 - Support post
 - 1 pair of tailstocks with pointed alignment centre 60° MK 2

			Height of centres mm	Max. work load per tailstock kg	Width between centres mm	Width of T grooves mm	Base mm	Ref. No.	List price Euro
▪		▪	200	24	650	14	1100 x 180 x 140	0783 012	3,182.00

			For centre height mm	Width of T grooves mm	Ref. No.	List price Euro
Pair of tailstocks						
▪		▪	200	14	0782 191	1,052.00
Support post						
▪			200	14	0783 070	265.00
Pointed alignment centre, mount MK 2						
▪			200	—	0782 181	202.00

0783 Pair of roller supports

HP



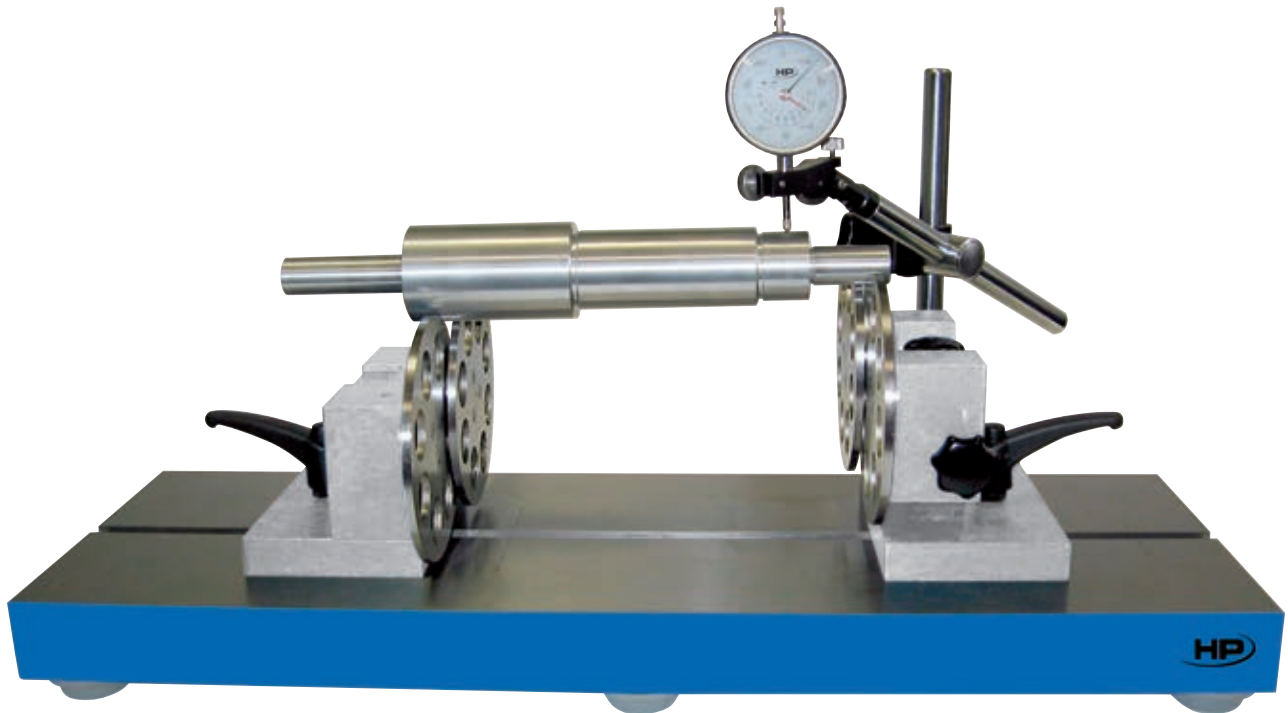
			Height* mm	For width of T grooves mm	Surface dia. mm	Ref. No.	List price Euro
			200	14	25 - 100	0782 160	635.00

* based on the centre of an axis of a shaft Ø 32 mm





0784 Runout measuring gauge with sliding discs



Specification

- Centreless concentricity measuring instrument
- High accuracy; roller discs being mounted in bearings; free of play
- Sliding discs supports on the base
- One sliding disc can be adjusted up to 30 mm for diametral compensation
- Includes the support post, excludes a dial gauge
- Concentricity accuracy 5 μ m
- Load capacity max. 50 kg (25 kg per tailstock)

Shipment

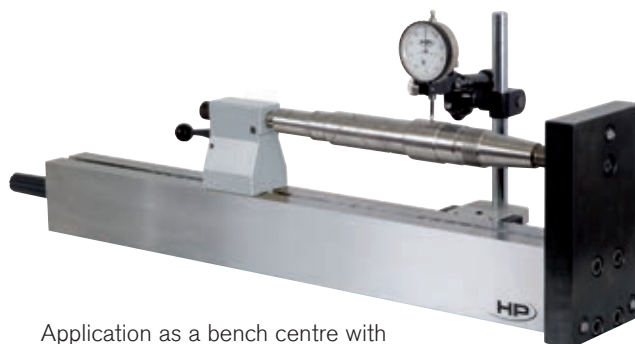
- Wooden box

			Max. distance between discs mm	Max. workpiece dia. mm	Discs dia. mm	Ref. No.	List price Euro
		▪	400	250	120	0784 108	2,783.00



0788 Shaft measuring instrument

HP



Application as a bench centre with accessories: Measuring stand with guideway Ref. No. 0788 180

Specification

- For rapid measurement of diameters, distances, shoulders, taper, roundness, etc.
- Vertical and horizontal alignment
- Vertical base with 3 hardened adjustment support surfaces
- Measuring beam is made of hardened steel
- Load capacity max. 20 kg

Shipment

- Not supplied with a support post, excludes the dial gauge, guideways and height gauge
- Cardboard box

			Height of centres mm	Width between centres mm	Width of T grooves mm	Base mm	Ref. No.	List price Euro
▪		▪	75	550	10H7	200 x 120	0788 104	1,015.00



0788 180

Accessories

Support arm with guideways

Ref. No.

0788 180

List price
Euro

206.00





0788 Shaft measuring instrument lightweight



Application as a bench centre with accessories: Measuring stand with guideway Ref. No. 0788 904

Specification

- For rapid measurement of diameters, distances, shoulders, taper, roundness, etc.
- Vertical and horizontal alignment
- Vertical base with 3 hardened adjustment support surfaces
- Measuring beam is made of hard anodised aluminium profile
- Aluminium tailstocks
- Load capacity max. 15 kg

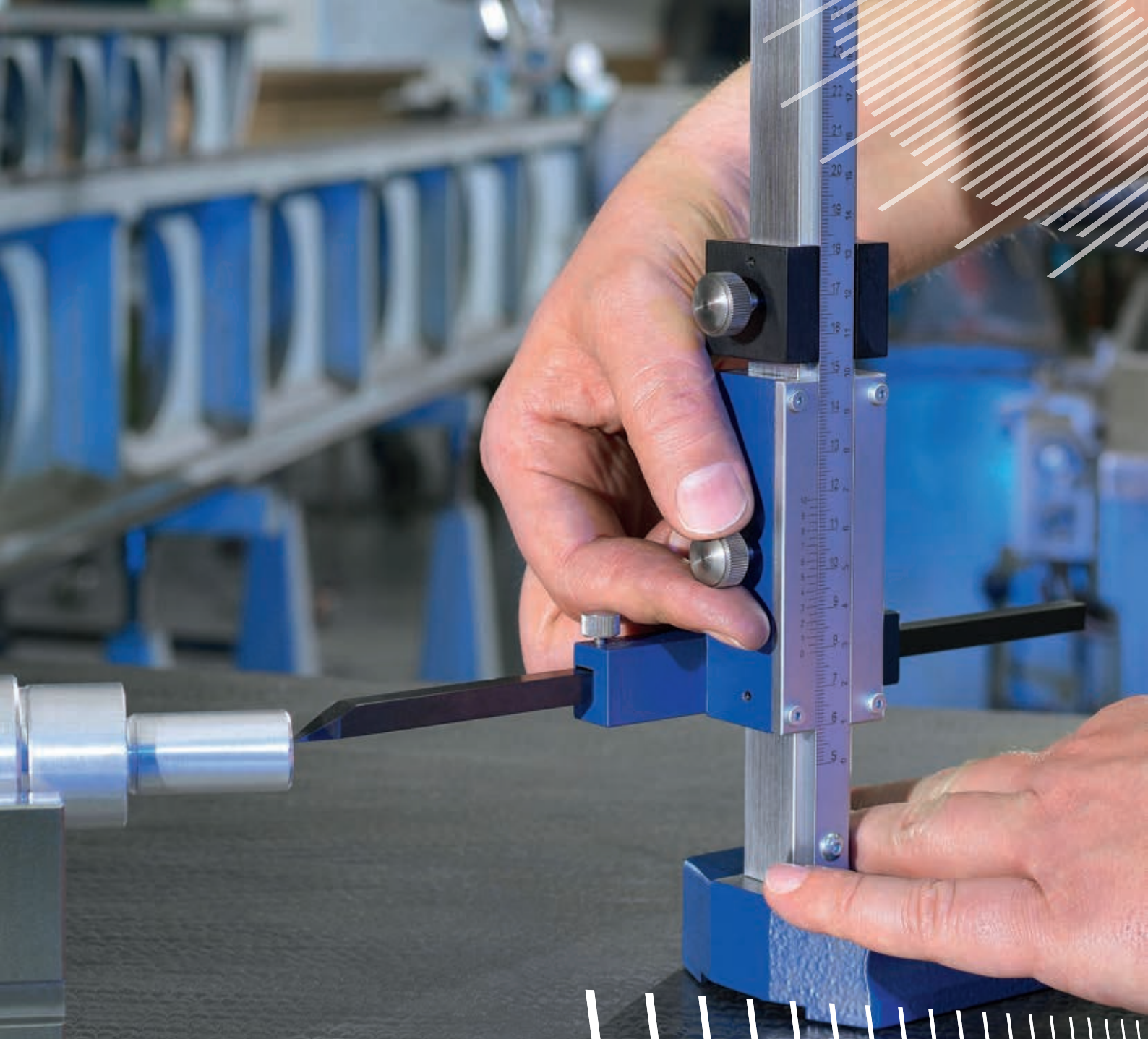
Shipment

- Not supplied with a support post, excludes the dial gauge, guide-ways and height gauge
- Cardboard box

				Height of centres mm	Width between centres mm	Width of T grooves mm	Base mm	Ref. No.	List price Euro
▪				75	550	10.1 ± 0.1	200 x 150	0788 904	809.00

Accessories

	Ref. No.	List price Euro
Support arm with holder	0788 980	65.00
Support arm with guideways	0788 990	293.00



BREADTH MEETS DEPTH

With HELIOS•PREISSER you don't just find the first best, but always the best possible solution— this company motto affects all areas of our broad product spectrum.

What may start off with a marking gauge does not end with a cable-free data transmission between a digital caliper and a PC. We do not exaggerate if we promise you high quality, especially for our calibration service; in many cases our first calibration service is free of charge.

Our attention to detail does not just stop at the small things, with our laser marking facility we can achieve along a length of 1000 mm a scaling precision of $< 0.0025 \text{ mm}$ – an unbelievable accuracy - we have made accuracy a matter of principle. This puts us qualitative far ahead; therefore we can offer a broad and in depth range of products that you can rely on.

CHAPTER 4 MARKING INSTRUMENTS



Scribers

4/2

Precision dividers

4/3

Beam trammel / Beam compass

4/5

Internal / External caliper

4/7

Marking calipers

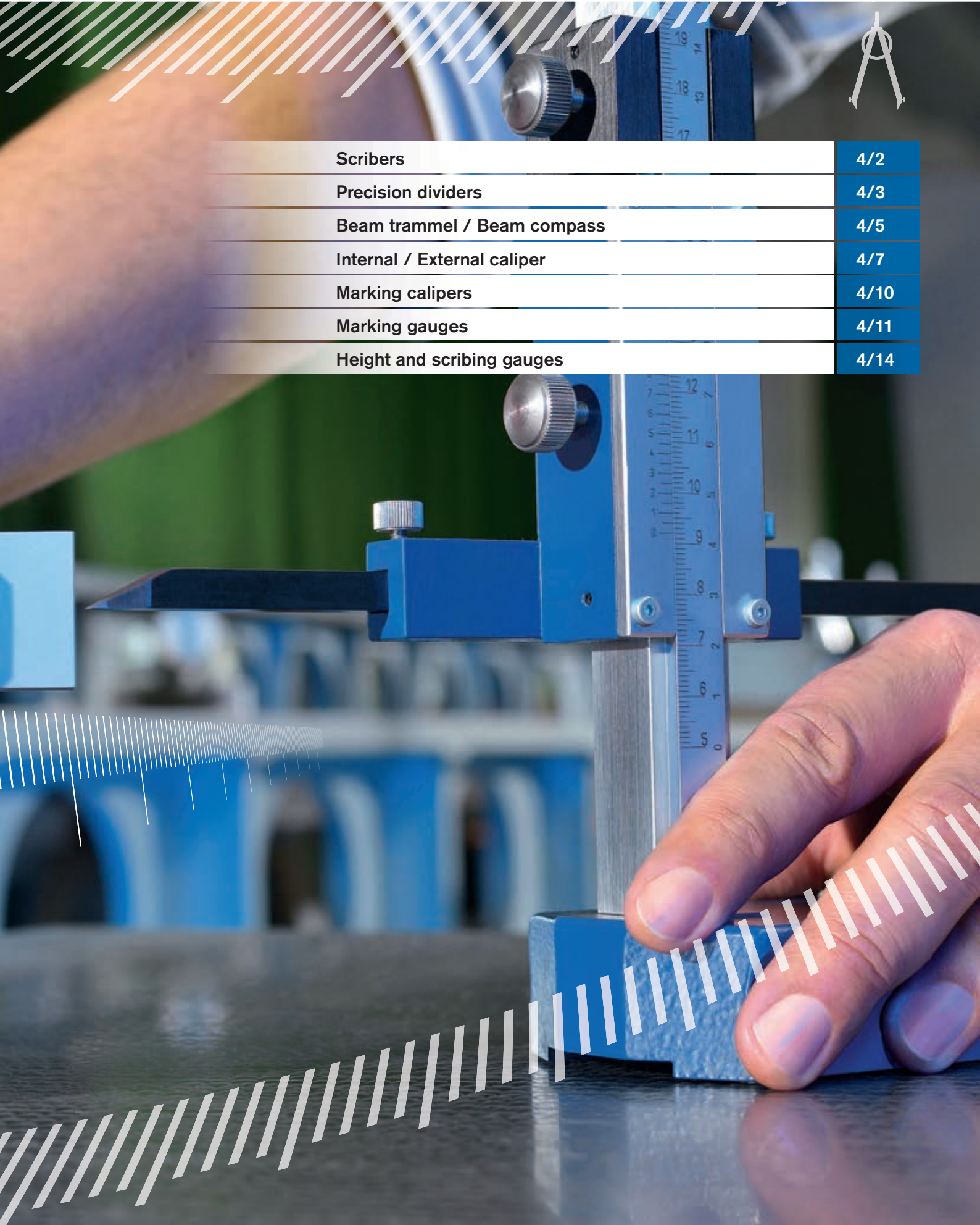
4/10

Marking gauges

4/11

Height and scribing gauges

4/14





0300 Scribes



				Length mm	Material	Ref. No.	List price Euro
			With straight screw-in scribe:				
▪				175	Hardened chrome vanadium steel	0300 007	1.80
			With one straight and one L-shaped screw-in scribes:				
▪				250	Hardened chrome vanadium steel	0300 008	2.00
			With one straight and one angled screw-in and burnished scribes:				
▪				200	Hardened chrome vanadium steel	0300 011	1.80
			With straight scribe, ball point pen form, incl. 20 interchangeable marking scribes:				
▪				125	Hardened chrome vanadium steel	0300 013	9.10
			One piece hexagonal body with a pocket clip:				
▪				180	Carbide tipped	0300 102	5.10
			With straight screw-in scribe:				
▪				175	Carbide tipped	0300 103	5.10
			With straight scribe, plastic handle:				
▪				110	Carbide tipped	0300 112	4.20
			With one straight and one angled screw-in and burnished scribes:				
▪				250	Carbide tipped	0300 114	7.90

Replacement scribes



				Length mm	Material	Ref. No.	List price Euro
For scribes 0300 007, 0300 008:							
	▪			86	Chrome vanadium steel, straight	0300 009	1.00
For scribe 0300 008:							
	▪			80	Chrome vanadium steel, L-shaped	0300 010	1.00
For scribe 0300 013:							
(Package = 50 pieces)	▪			16	Chrome vanadium steel, straight	0300 014	1.80





0301 Precision dividers



Specification

- With a rivetted hinge
- Special steel
- Hardened needle shaped ground points

Shipment

- Cardboard box

				Length mm	Ref. No.	List price Euro
▪				150	0301 001	6.50
▪				175	0301 002	7.50
▪				200	0301 003	8.30
▪				250	0301 004	11.50
▪				300	0301 005	13.90
▪				400	0301 006	37.60
▪				500	0301 007	53.00
▪				600	0301 008	70.00
▪				800	0301 009	98.00
▪				1000	0301 010	144.00

0302 Precision dividers with quadrant



Specification

- With a rivetted hinge
- Special steel
- Quadrant with robust, milled locking screw
- Hardened points

Shipment

- Cardboard box

				Length mm	Ref. No.	List price Euro
▪				150	0302 001	9.60
▪				175	0302 002	10.60
▪				200	0302 003	11.30
▪				250	0302 004	14.80
▪				300	0302 005	19.30
▪				400	0302 006	54.00
▪				500	0302 007	66.00
▪				600	0302 008	86.00
▪				800	0302 009	119.00
▪				1000	0302 010	164.00



0310 Spring dividers



Specification

- Quick release set screw
- Special steel
- Fixed points
- Hardened points
- Quick release set screw and spring are burnished

Shipment

- Cardboard box

				Length mm	Ref. No.	List price Euro
▪				100	0310 101	3.10
▪				150	0310 103	3.80
▪				200	0310 105	4.20
▪				250	0310 107	5.30
▪				300	0310 108	6.30

0311 Spring dividers



Specification

- Quick release set screw
- Special steel
- Interchangeable points
- Hardened points
- Quick release set screw and spring are burnished

Shipment

- Cardboard box

				Length mm	Ref. No.	List price Euro
▪				100	0311 101	3.10
▪				150	0311 103	4.20
▪				200	0311 105	5.10
▪				250	0311 107	6.10
▪				300	0311 108	6.50

Pair of replacement points for spring dividers



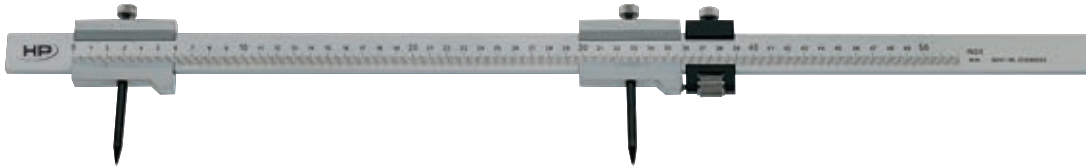
				Material	Ref. No.	List price Euro
▪				Hardened	0311 120	2.00
▪				Carbide tipped	0311 121	17.10





0316 Beam trammel

HP



Specification

- With interchangeable steel points
- Stainless steel
- Locking screw
- Fine adjustment
- Factory standard

			Measuring range mm	Measuring beam mm	Reading mm	Ref. No.	List price Euro
■			500	25 x 6	0.1	0316 201	104.00
■			1000	25 x 6	0.1	0316 202	156.00

Pair of replacement points, threaded

HP

Specification

- Thread M5

			Material	Diameter mm	Ref. No.	List price Euro
■			Hardened	6	0316 110	6.90
■			Carbide	6	0316 111	26.00

0316 Beam trammel with roller

HP



Specification

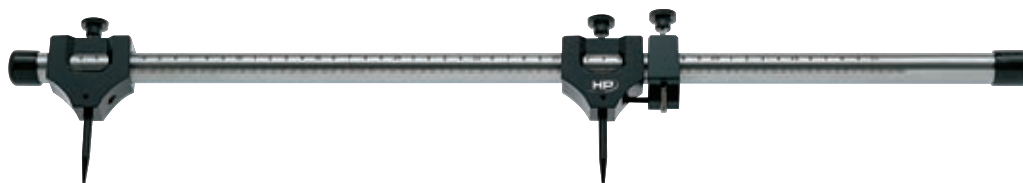
- Flat beam
- Special steel
- Locking screw
- Fine adjustment
- Factory standard

			Measuring range mm	Measuring beam mm	Reading mm	Ref. No.	List price Euro
■			500	25 x 6	0.1	0316 151	102.00
■			1000	25 x 6	0.1	0316 152	123.00
		■	1500	25 x 6	0.1	0316 153	164.00
		■	2000	25 x 6	0.1	0316 154	211.00



0317 Beam compass with round measuring beam

HP



Specification

- Beam is made of special steel
- Guide groove
- Slide bars are made of aluminium
- mm graduated scale
- Locking screws
- Interchangeable hardened scribers
- Factory standard

			Measuring range mm	Measuring beam dia. mm	Reading mm	Ref. No.	List price Euro
Without fine adjustment:							
▪			500	20	0.1	0317 001	52.00
▪			1000	20	0.1	0317 002	73.00
▪		▪	1500	20	0.1	0317 003	101.00
▪		▪	2000	20	0.1	0317 004	146.00
		▪	3000	28	0.1	0317 005	336.00
		▪	4000	28	0.1	0317 006	546.00
		▪	5000	28	0.1	0317 007	729.00
With fine adjustment:							
▪			500	20	0.1	0317 101	64.00
▪			1000	20	0.1	0317 102	86.00
▪		▪	1500	20	0.1	0317 103	122.00
▪		▪	2000	20	0.1	0317 104	158.00
		▪	3000	28	0.1	0317 105	365.00
		▪	4000	28	0.1	0317 106	575.00
		▪	5000	28	0.1	0317 107	758.00

Pair of replacement points (clamp)

HP

			Material	Diameter mm	Ref. No.	List price Euro
▪			Hardened	6	0317 010	4.60
▪			Carbide tipped	6	0317 110	21.50





0314 Marking calipers






Specification

- Special steel
- Locking screw
- Laser graduated scale
- Factory standard

Shipment

- Cardboard box

			Measuring range		Jaw length	Reading	Ref. No.	List price
			mm	dia.	mm	mm		Euro
With hardened scribing tips:								
▪			150	300	40	0.1	0314 002	69.00
▪			200	400	40	0.1	0314 003	79.00
▪			250	500	40	0.1	0314 004	83.00
▪			300	600	40	0.1	0314 005	87.00
Carbide scribing tips:								
▪			150	300	40	0.1	0314 102	105.00
▪			200	400	40	0.1	0314 103	124.00
▪			250	500	40	0.1	0314 104	128.00
▪			300	600	40	0.1	0314 105	133.00

0308 Combined internal / external calipers



Specification

- Internal and external caliper
- Stainless steel
- Satin chrome plated scale
- With a rivetted hinge
- mm graduated scale for internal and external measurement

Shipment

- Cardboard box

			Measuring range	Total length	Ref. No.	List price Euro
			mm	mm		
▪			120	190	0308 201	85.00
▪			160	250	0308 202	101.00
▪			200	310	0308 303	123.00
▪			300	460	0308 305	146.00



0303 Precision internal calipers

HP



Specification

- With a rivetted hinge
- Special steel
- Hardened measuring points

Shipment

- Cardboard box

			Length mm	Ref. No.	List price Euro
▪			150	0303 001	6.30
▪			175	0303 002	6.90
▪			200	0303 003	7.90
▪			250	0303 004	8.50
▪			300	0303 005	9.60
▪			400	0303 006	11.80
▪			500	0303 007	14.60
			600	0303 008	22.10
			800	0303 009	31.80
			1000	0303 010	58.00
		▪	1200	0303 012	510.00
		▪	1500	0303 015	541.00
		▪	2000	0303 020	577.00

0304 Precision external calipers

HP



Specification

- With a rivetted hinge
- Special steel
- Hardened measuring points

Shipment

- Cardboard box

			Length mm	Ref. No.	List price Euro
▪			150	0304 001	6.30
▪			175	0304 002	6.90
▪			200	0304 003	7.90
▪			250	0304 004	8.50
▪			300	0304 005	9.60
▪			400	0304 006	11.80
▪			500	0304 007	14.60
			600	0304 008	22.10
			800	0304 009	31.80
			1000	0304 010	58.00
		▪	1200	0304 012	510.00
		▪	1500	0304 015	541.00
		▪	2000	0304 020	577.00





0312 Spring internal calipers



Specification

- Internal caliper with quick release set screw
- Special steel
- Quick release set screw and spring are burnished

Shipment

- Cardboard box

				Length mm	Ref. No.	List price Euro
▪				100	0312 101	3.10
▪				150	0312 103	4.40
▪				200	0312 105	5.30
▪				250	0312 107	6.50
▪				300	0312 108	7.90

0313 Spring external calipers



Specification

- External caliper with quick release set screw
- Special steel
- Quick release set screw and spring are burnished

Shipment

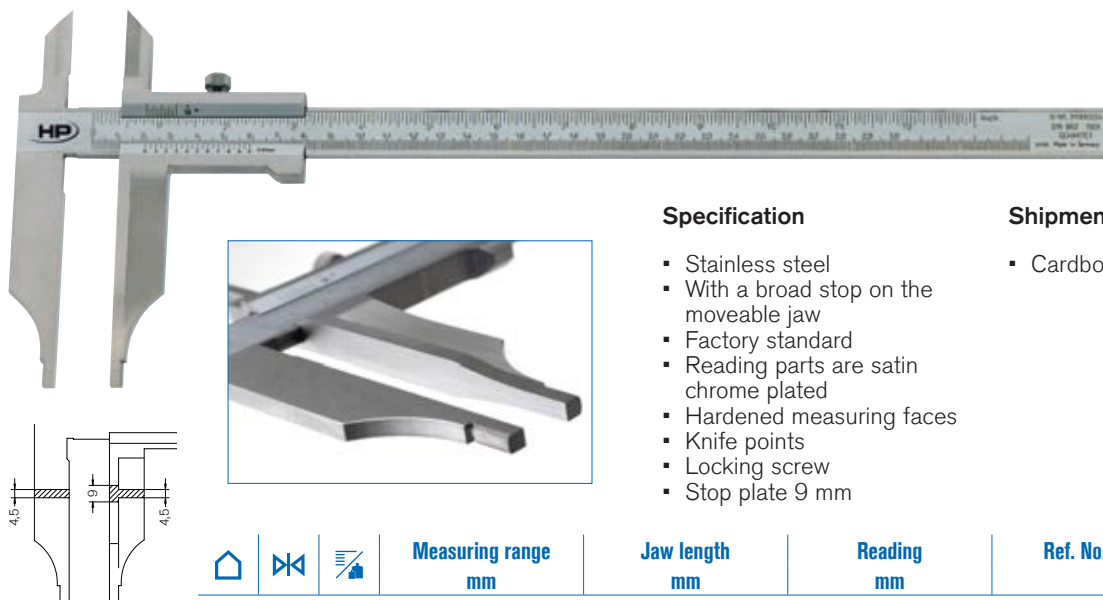
- Cardboard box

				Length mm	Ref. No.	List price Euro
▪				100	0313 101	3.10
▪				150	0313 103	4.40
▪				200	0313 105	5.30
▪				250	0313 107	6.50
▪				300	0313 108	7.90



0343 Marking calipers

HP



Specification

- Stainless steel
- With a broad stop on the moveable jaw
- Factory standard
- Reading parts are satin chrome plated
- Hardened measuring faces
- Knife points
- Locking screw
- Stop plate 9 mm

Shipment

- Cardboard box

			Measuring range mm	Jaw length mm	Reading mm	Ref. No.	List price Euro
Stepped jaws for inside measurement 10 mm:							
▪			250	90	0.05	0343 501	238.00
▪			300	90	0.05	0343 503	268.00
Stepped jaws for inside measurement 20 mm:							
			500	150	0.05	0343 508	616.00

0344 Marking calipers

HP



Specification

- Stainless steel, hardened
- Long T-shaped marking edge
- Factory standard
- Reading parts are satin chrome plated
- Low set master scale
- Fine adjustment
- Locking screw

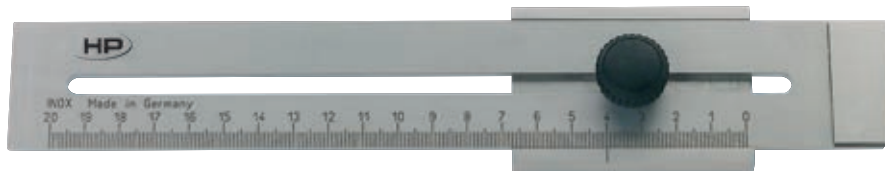
Shipment

- Cardboard box

			Measuring range mm	Stop length mm	Reading mm	Ref. No.	List price Euro
▪			160	135	0.05	0344 501	117.00
▪			250	135	0.05	0344 502	149.00
▪			300	160	0.05	0344 503	189.00
▪			500	160	0.05	0344 505	400.00



0321 Marking gauges



Specification

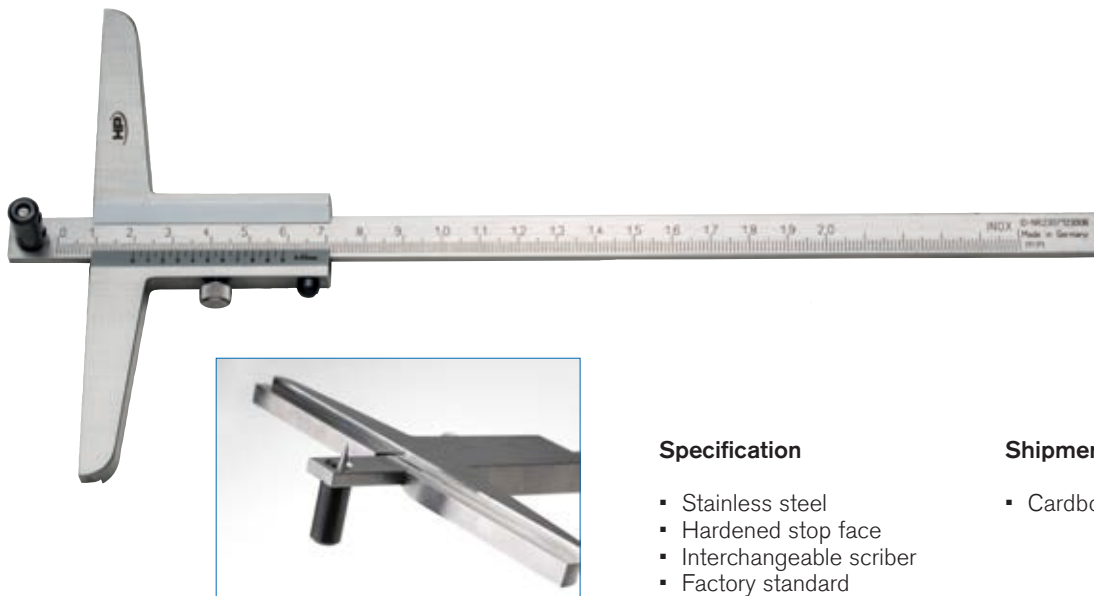
- Flat, stable construction
- Stainless steel, chrome finish
- Locking screw
- Hardened stop face
- mm graduated scale
- Factory standard

Shipment

- Cardboard box

			Measuring range mm	Blade width mm	Reading mm	Ref. No.	List price Euro
▪			200	40	1/1	0321 301	20.30
▪			250	40	1/1	0321 302	22.50
▪			300	40	1/1	0321 303	23.00
▪			500	40	1/1	0321 305	44.20

0318 Marking gauges



Specification

- Stainless steel
- Hardened stop face
- Interchangeable scriber
- Factory standard

Shipment

- Cardboard box

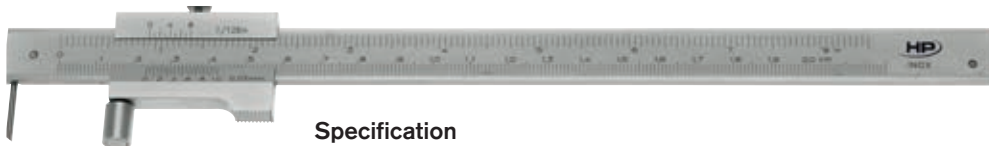
			Measuring range mm	Length of stop bar mm	Reading mm	Ref. No.	List price Euro
▪			200	130	0.05	0318 201	138.00
▪			300	130	0.05	0318 203	147.00

Replacement scribes

			Material	Ref. No.	List price Euro
▪			Special steel	0318 210	5.70
▪			Carbide tipped	0318 211	29.20



0322 Marking gauges with guide roll



Specification

- Stainless steel, hardened
- Reading parts satin chrome plated
- Guide roll
- Locking screw
- Interchangeable scriber made of hardened steel
- Factory standard

Shipment

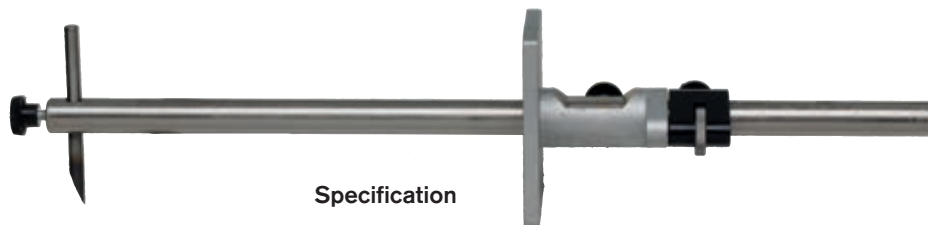
- Cardboard box

				Measuring range mm	Reading mm	Ref.-No.	List price Euro
▪				200	0.05	0322 501	23.00
▪				400	0.05	0322 503	36.00

Accessories

					Ref.-No.	List price Euro
▪				Replacement scriber	0322 510	4.00

0319 Marking gauges with a round measuring beam



Specification

- With guide groove
- Stainless steel beam
- Slide bars are made of steel, rectangular stop plate
- Scriber interchangeable, made of hardened steel
- mm graduated scale
- Factory standard

Shipment

- Cardboard box

				Measuring range mm	Measuring beam dia. mm	Reading mm	Ref. No.	List price Euro
Without fine adjustment:								
▪				200	12	0.1	0319 001	32.90
▪				300	12	0.1	0319 002	40.90
▪				400	12	0.1	0319 003	59.00
▪				500	12	0.1	0319 004	79.00
With fine adjustment:								
▪				200	12	0.1	0319 101	41.90
▪				300	12	0.1	0319 102	49.00
▪				400	12	0.1	0319 103	67.00
▪				500	12	0.1	0319 104	86.00

Replacement scribers



				Material	Ref. No.	List price Euro
▪				Hardened steel	0319 010	3.50
▪				Carbide	0319 510	35.40





0320 Marking gauges with a round measuring beam



Specification

- With guide groove
- Stainless steel beam
- Slide bars are made of steel, round stop plate
- Interchangeable scriber made of hardened steel
- mm graduated scale

Shipment

- Cardboard box

			Measuring range mm	Measuring beam dia. mm	Reading mm	Ref. No.	List price Euro
Non hardened stop plate:							
▪			300	12	0.1	0320 001	40.90
▪			500	12	0.1	0320 002	79.00
Hardened stop plate :							
▪			300	12	0.1	0320 101	64.00
▪			500	12	0.1	0320 102	101.00

Replacement scriber



			Material	Ref. No.	List price Euro
▪			Hardened steel	0319 010	3.50
▪			Carbide	0319 510	35.40



0336 Height and scribing gauges

HP



Specification

- Hardened cast base
- Upper surface of the base is ground
- With dust grooves
- Measuring beam special steel
- Vernier and scale are satin chrome plated
- Parallax free reading
- Fine adjustment
- Locking screw
- With a mounting arm for dial gauges dia. 8 mm H7
- Factory standard

Shipment

- With interchangeable scriber, carbide tipped
- For further accessories please refer to page 4/19

			Measuring range mm	Measuring beam mm	Reading mm	Ref. No.	List price Euro
Base 60 x 40 x 100 mm:							
▪			300	25 x 6	0.02	0336 301	378.00
Base 110 x 50 x 160 mm:							
▪			600	30 x 12	0.02	0336 302	521.00
▪			1000	30 x 12	0.02	0336 304	1,150.00
		▪	1500	40 x 20	0.02	0336 305	on Request
		▪	2000	40 x 20	0.02	0336 306	on Request

Replacement scribers for 0336

HP

Specification

- Carbide tipped

			Length mm	Ref. No.	List price Euro
For measuring range 300 mm					
▪			65	0334 101	67.00
			120	0334 105	82.00
For measuring range 600 mm + 1000 mm					
▪			75	0334 102	112.00
			150	0334 106	123.00

Wooden cases for 0336

HP

			For measuring range mm	Ref. No.	List price Euro
▪			300	0334 601	30.30
▪			600	0334 602	101.00
▪			1000	0334 604	166.00





0331 Height scribing gauges



Specification

- Measuring beam is made of special steel
- Vernier and scale are satin chrome plated
- Parallax free reading
- Locking screw
- Sliding scriber
- Steel base with a carbide plate

Shipment

- With interchangeable, straight scriber (see table)

			Measuring range mm	Measuring beam mm	Base mm	Reading mm	Fine adjustment	Ref. No.	List price Euro
With straight hardened scriber:									
▪			300	20 x 20	120 x 75	0.05	yes	0331 301	211.00
▪			500	20 x 20	120 x 75	0.05	yes	0331 302	262.00
▪			600	20 x 20	120 x 75	0.05	no	0331 303	401.00
▪			1000	20 x 20	180 x 100	0.05	no	0331 304	579.00
With straight carbide scriber:									
▪			300	20 x 20	120 x 75	0.05	yes	0331 311	254.00
▪			500	20 x 20	120 x 75	0.05	yes	0331 312	306.00
▪			600	20 x 20	120 x 75	0.05	no	0331 313	431.00
▪			1000	20 x 20	180 x 100	0.05	no	0331 314	610.00

Replacement scribes for 0331



			Material	Length mm	Scriber mm	Ref. No.	List price Euro
Straight scriber:							
▪			Hardened tip	270	8 x 8	0331 011	102.00
▪			Carbide tip	270	8 x 8	0331 111	133.00
Cranked scriber, for marking from base:							
▪			Hardened tip	270	8 x 8	0331 030	120.00
▪			Carbide tip	270	8 x 8	0331 130	152.00



0330 Height gauges

HP

Specification

- Exact fine adjustment with rear rack and thumbwheel with pinion
- Measuring beam made of special steel
- Vernier and scale are satin chrome plated
- Parallax free reading
- Setting screw
- Scriber from base
- Steel base with carbide plating
- Factory standard

Shipment

- With interchangeable scriber, carbide tipped
- [Replacement scribers: please refer to Ref. No. 0334, page 4/18](#)



Rear view with rack

			Measuring range mm	Measuring beam mm	Reading mm	Ref. No.	List price Euro
▪			300	14 x 14	0.05	0330 301	200.00
▪			500	14 x 14	0.05	0330 302	250.00





0331 Height gauges

HP

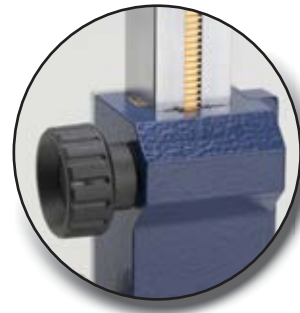


Specification

- Exact fine adjustment with rear rack and thumbwheel with pinion
- Measuring beam made of special steel
- 2 scales for straight and cranked scriber
- Vernier and scale are satin chrome plated
- Parallax free reading
- Setting screw
- Scriber from base
- Steel base with carbide plating
- Factory standard

Shipment

- With interchangeable, straight scriber made of hardened steel



View back with rack

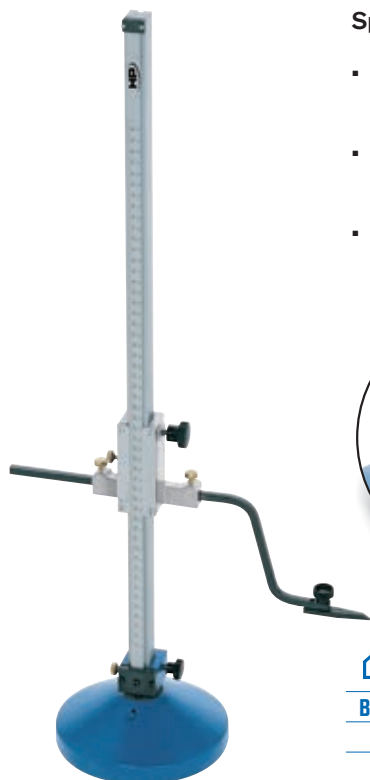
				Measuring range mm	Measuring beam mm	Reading mm	Ref. No.	List price Euro
▪				300	20 x 20	0.02	0331 340	300.00
▪				600	20 x 20	0.02	0331 343	400.00
▪				1000	20 x 20	0.02	0331 344	650.00

Accessories	Ref. No.	List price Euro
Straight scriber, steel, hardened	0331 011	102.00
Straight scriber, carbide tipped	0331 111	133.00
Cranked scriber, steel, hardened, for marking from base	0331 030	120.00
Cranked scriber, carbide tipped, for marking from base	0331 130	152.00



0338 Height and scribing gauges for model builders

HP

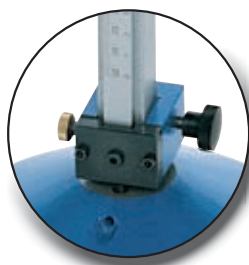


Specification

- Exact fine adjustment with rear rack and thumbwheel with pinion
- Rules interchangeable (for exchange with contraction rules)
- Special steel
- Reading parts are satin chrome plated
- Parallax free reading
- Locking screw
- 2 mm graduated scale for straight and cranked scribes
- Factory standard

Shipment

- With interchangeable, cranked and carbide tipped scriber for marking from base
- [For further accessories please refer to page 4/17](#)



Slide with wheel and clamping for zero setting of the sliding scale

			Measuring range mm	Measuring beam mm	Reading mm	Ref. No.	List price Euro
Base dia. 160 mm:							
▪			600	20 x 20	0.1	0338 302	1,079.00
▪			1000	20 x 20	0.1	0338 303	1,390.00
Base dia. 280 mm:							
		▪	1500	40 x 20	0.1	0338 304	2,480.00
		▪	2000	40 x 20	0.1	0338 305	3,425.00

Contraction rules for 0338

HP

Specification

- Special steel, satin chrome plated

			Measuring range mm	Graduation %	Ref. No.	List price Euro
			600	0.50	0338 311	128.00
			1000	0.50	0338 312	145.00
			600	0.80	0338 316	128.00
			1000	0.80	0338 317	145.00
			600	1.00	0338 321	128.00
			1000	1.00	0338 322	145.00
			600	1.25	0338 326	128.00
			1000	1.25	0338 327	145.00
			600	1.50	0338 331	128.00
			1000	1.50	0338 332	145.00
			600	1.75	0338 336	128.00
			1000	1.75	0338 337	145.00
			600	2.00	0338 341	128.00
			1000	2.00	0338 342	145.00
			600	2.50	0338 346	128.00
			1000	2.50	0338 347	145.00





Replacement scriber for 0338



				Material	Shaft mm	Ref. No.	List price Euro
Cranked:							
▪				Hardened steel	8 x 8	0338 354	132.00
				Carbide	8 x 8	0338 357	169.00
Straight:							
▪				Hardened steel	8 x 8	0331 011	102.00
				Carbide	8 x 8	0331 111	133.00

Wooden cases for 0338



				For measuring range mm	Ref. No.	List price Euro
▪				600	0338 361	115.00
				1000	0338 362	164.00

0340 DIGI-MET® Height and scribing gauges



Specification

- Cast base non hardened
- LCD-display 6 mm
- Factory standard
- Locking screw
- Fine adjustment

Electronic functions

- ON/OFF switch
- Zero setting at any position
- mm/inch conversion
- Data output Opto RS 232
- Hold Function
- PRESET Function (setting a numerical value)

Shipment

- With interchangeable scriber, carbide tipped
- Styrofoam packing
- [For further accessories please refer to pages 4/18 and 4/19](#)

				Measuring range		Measuring beam		Reading		Ref. No.	List price Euro
				mm	inch	mm	inch	mm	inch		
Base 90 x 40 x 140 mm:											
▪				300	12	25 x 10	1.0 x 0.39	0.01	.0005	0340 701	583.00
▪				600	24	25 x 10	1.0 x 0.39	0.01	.0005	0340 702	680.00

Replacement scriber please refer to page 4/18

Accessories	Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable for Opto to RS 232	0996 701	69.00
Cable for Opto to USB	0996 705	132.00



0342 DIGI-MET® Height and scribing gauges

HP



Specification




- Hardened cast base
- Upper surface of the base is ground
- With dust grooves
- Special steel
- LCD-display 6 mm
- Factory standard
- Locking screw
- With a mounting arm for dial gauges dia. 8 mm H7
- Fine adjustment

Electronic functions

- ON/OFF switch
- Zero setting at any position
- mm/inch conversion
- Data output Opto RS 232
- Hold Function
- PRESET Function (setting a numerical value)

Shipment

- With interchangeable scriber, carbide tipped
- Styrofoam packing

			Measuring range		Measuring beam		Reading		Ref. No.	List price Euro
			mm	inch	mm	inch	mm	inch		
Base 60 x 40 x 100 mm:										
▪			300	12	25 x 6	1.0 x 0.24	0.01	.0005	0342 701	704.00
Base 110 x 50 x 160 mm:										
▪			600	24	30 x 12	1.18 x 0.47	0.01	.0005	0342 702	783.00
▪			1000	39	30 x 12	1.18 x 0.47	0.01	.0005	0342 704	1,379.00

Accessories

	Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable for Opto to RS 232	0996 701	69.00
Cable for Opto to USB	0996 705	132.00




Replacement scriber for 0340 and 0342

HP



Specification

- Carbide tipped

			Length	Ref. No.	List price Euro
For measuring range 300 mm:					
▪			65	0334 101	67.00
For measuring range 600 mm + 1000 mm:					
▪			75	0334 102	112.00





Holder for dial gauges / lever gauges



Specification

- Replaces scriber

			Material mm	Ref. No.	List price Euro
▪			Special steel	0342 101	100.00

Rotate and tilt dial gauge holder



Specification

- Mounting arm with 8 mm bore hole

			Material mm	Ref. No.	List price Euro
▪			Special steel	0334 110	59.00

Wooden case for 0342



			For measuring range mm	Ref. No.	List price Euro
▪			300	0334 601	30.30
▪			600	0334 602	101.00
▪			1000	0334 604	166.00



WHERE OTHERS DECLINE, WE OFFER THE SOLUTION

Hand measuring technology requires intuition and sensitivity – for example special requirements: from the initial consultation to the production we fulfil every special wish and requirement with great care. We can promise you a straightforward process as we have our hand measuring instruments production here in Gammertingen - where we are literally hands on. Here; experience, competence, team spirit and an indispensable flexibility converge so that you as professionals can work ideally with our products. In order that your products make a visual impact an individual logo imprint in the course of our Private-Label production is an inherent part of our services.



CHAPTER 5 **SQUARES, PROTRACTORS, BEVEL PROTRACTORS**



Inspection squares

5/2

Lightweight squares

5/5

Mitre squares, Acute angle squares

5/6

Inspection squares, hardened

5/8

Hardened squares

5/9

Squares with stock and blade

5/10

Inspection square set

5/11

Wooden case for squares

5/12

Protractors

5/13

Universal bevel protractors

5/16





0368 Squares with base GG 0

HP

Specification

- DIN 875
- Accuracy grade 0
- For exact angle testing (for example: tool making)

Shipment

- Cardboard box



DIN
875

			Blade length mm	Cross section mm	Ref. No.	List price Euro
Special steel:						
▪			75 x 50	15 x 5	0368 102	14.40
▪			100 x 70	20 x 5	0368 103	16.70
▪			150 x 100	25 x 5	0368 104	25.40
▪			200 x 130	30 x 6	0368 105	32.50
▪			250 x 165	35 x 7	0368 106	46.90
▪			300 x 200	40 x 8	0368 107	63.00
			400 x 265	45 x 10	0368 108	138.00
			500 x 330	50 x 10	0368 109	202.00
			600 x 400	50 x 10	0368 110	289.00
			750 x 500	60 x 12	0368 111	494.00
		▪	1000 x 660	70 x 15	0368 112	885.00
Stainless steel:						
▪			75 x 50	15 x 5	0368 202	21.50
▪			100 x 70	20 x 5	0368 203	23.20
▪			150 x 100	25 x 5	0368 204	39.80
▪			200 x 130	30 x 6	0368 205	57.00
▪			250 x 165	35 x 7	0368 206	84.00
▪			300 x 200	40 x 8	0368 207	93.00
			400 x 265	45 x 10	0368 208	175.00
			500 x 330	50 x 10	0368 209	242.00
			600 x 400	50 x 10	0368 210	361.00
			750 x 500	60 x 12	0368 211	618.00
		▪	1000 x 660	70 x 15	0368 212	1,312.00

0369 Squares without base GG 0

HP

Specification

- DIN 875
- Accuracy grade 0
- For exact angle testing (for example: tool making)

Shipment

- Cardboard box



DIN
875

			Blade length mm	Cross section mm	Ref. No.	List price Euro
Special steel:						
▪			75 x 50	15 x 5	0369 102	9.40
▪			100 x 70	20 x 5	0369 103	10.60
▪			150 x 100	25 x 5	0369 104	13.00
▪			200 x 130	30 x 6	0369 105	21.50
▪			250 x 165	35 x 7	0369 106	29.70
▪			300 x 200	40 x 8	0369 107	38.20
			400 x 265	45 x 10	0369 108	93.00
			500 x 330	50 x 10	0369 109	115.00
			600 x 400	50 x 10	0369 110	227.00
			750 x 500	60 x 12	0369 111	422.00
		▪	1000 x 660	70 x 15	0369 112	752.00
Stainless steel:						
▪			75 x 50	15 x 5	0369 202	15.60
▪			100 x 70	20 x 5	0369 203	17.10
▪			150 x 100	25 x 5	0369 204	22.70
▪			200 x 130	30 x 6	0369 205	34.40
▪			250 x 165	35 x 7	0369 206	45.80
▪			300 x 200	40 x 8	0369 207	63.00
			400 x 265	45 x 10	0369 208	121.00
			500 x 330	50 x 10	0369 209	168.00
			600 x 400	50 x 10	0369 210	283.00
			750 x 500	60 x 12	0369 211	528.00
		▪	1000 x 660	70 x 15	0369 212	990.00





0370 Squares with base GG 1

HP

Specification

- DIN 875
- Accuracy grade 1
- For angle testing in production and factory

Shipment

- Cardboard box



DIN
875

			Blade length mm	Cross section mm	Ref. No.	List price Euro
Special steel:						
▪			75 x 50	15 x 5	0370 102	9.10
▪			100 x 70	20 x 5	0370 103	10.20
▪			150 x 100	25 x 5	0370 104	10.40
▪			200 x 130	30 x 6	0370 105	16.90
▪			250 x 165	35 x 7	0370 106	22.50
▪			300 x 200	40 x 8	0370 107	27.50
▪			400 x 265	45 x 10	0370 108	75.00
▪			500 x 330	50 x 10	0370 109	110.00
			600 x 400	50 x 10	0370 110	154.00
			750 x 500	60 x 12	0370 111	343.00
		▪	1000 x 660	70 x 15	0370 112	581.00
Stainless steel:						
▪			75 x 50	15 x 5	0370 202	12.60
▪			100 x 70	20 x 5	0370 203	15.40
▪			150 x 100	25 x 5	0370 204	21.00
▪			200 x 130	30 x 6	0370 205	27.90
▪			250 x 165	35 x 7	0370 206	41.90
▪			300 x 200	40 x 8	0370 207	51.00
▪			400 x 265	45 x 10	0370 208	151.00
▪			500 x 330	50 x 10	0370 209	186.00
			600 x 400	50 x 10	0370 210	314.00
			750 x 500	60 x 12	0370 211	486.00
		▪	1000 x 660	70 x 15	0370 212	786.00

0371 Squares without base GG1

HP

Specification

- Accuracy grade 1
- For angle testing in production and factory
- DIN 875

Shipment

- Cardboard box



DIN
875

			Blade length mm	Cross section mm	Ref. No.	List price Euro
Special steel:						
▪			75 x 50	15 x 5	0371 102	6.90
▪			100 x 70	20 x 5	0371 103	7.30
▪			150 x 100	25 x 5	0371 104	8.70
▪			200 x 130	30 x 6	0371 105	12.00
▪			250 x 165	35 x 7	0371 106	18.20
▪			300 x 200	40 x 8	0371 107	21.50
▪			400 x 265	45 x 10	0371 108	54.00
▪			500 x 330	50 x 10	0371 109	77.00
			600 x 400	50 x 10	0371 110	106.00
			750 x 500	60 x 12	0371 111	234.00
		▪	1000 x 660	70 x 15	0371 112	401.00
Stainless steel:						
▪			75 x 50	15 x 5	0371 202	8.50
▪			100 x 70	20 x 5	0371 203	10.20
▪			150 x 100	25 x 5	0371 204	14.40
▪			200 x 130	30 x 6	0371 205	19.90
▪			250 x 165	35 x 7	0371 206	29.00
▪			300 x 200	40 x 8	0371 207	35.40
▪			400 x 265	45 x 10	0371 208	117.00
▪			500 x 330	50 x 10	0371 209	146.00
			600 x 400	50 x 10	0371 210	241.00
			750 x 500	60 x 12	0371 211	442.00
		▪	1000 x 660	70 x 15	0371 212	713.00



0372 Squares with base GG 2

HP

Specification

- Special steel
- DIN 875
- Accuracy grade 2
- For angle testing in factory and metal construction

DIN
875

Shipment

- Cardboard box



			Blade length mm	Cross section mm	Ref. No.	List price Euro
▪			75 x 50	15 x 5	0372 102	6.70
▪			100 x 70	20 x 5	0372 103	7.50
▪			150 x 100	25 x 5	0372 104	9.80
▪			200 x 130	30 x 6	0372 105	12.60
▪			250 x 165	35 x 7	0372 106	17.10
▪			300 x 175	35 x 7	0372 107	21.50
▪			400 x 200	35 x 7	0372 108	36.10
▪			500 x 250	40 x 8	0372 109	47.30
▪			600 x 300	40 x 8	0372 110	64.00
▪			750 x 375	45 x 10	0372 111	82.00
▪			1000 x 500	50 x 10	0372 112	112.00
	▪		1500 x 750	60 x 12	0372 113	402.00
	▪		2000 x 1000	60 x 12	0372 114	685.00

0373 Squares without base GG 2

HP

Specification

- Special steel
- DIN 875
- Accuracy grade 2
- For angle testing in factory and metal construction

DIN
875

Shipment

- Cardboard box



			Blade length mm	Cross section mm	Ref. No.	List price Euro
▪			75 x 50	15 x 5	0373 102	3.50
▪			100 x 70	20 x 5	0373 103	5.50
▪			150 x 100	25 x 5	0373 104	7.50
▪			200 x 130	30 x 6	0373 105	9.10
▪			250 x 165	35 x 7	0373 106	12.60
▪			300 x 175	35 x 7	0373 107	16.10
▪			400 x 200	35 x 7	0373 108	24.20
▪			500 x 250	40 x 8	0373 109	35.40
▪			600 x 300	40 x 8	0373 110	47.30
▪			750 x 375	45 x 10	0373 111	63.00
▪			1000 x 500	50 x 10	0373 112	93.00
	▪		1500 x 750	60 x 12	0373 113	308.00
	▪		2000 x 1000	60 x 12	0373 114	603.00





0376 Squares with stock and blade

HP



Specification

- Special steel
- DIN 875
- Accuracy grade 1
- For angle testing in production and factory

Shipment

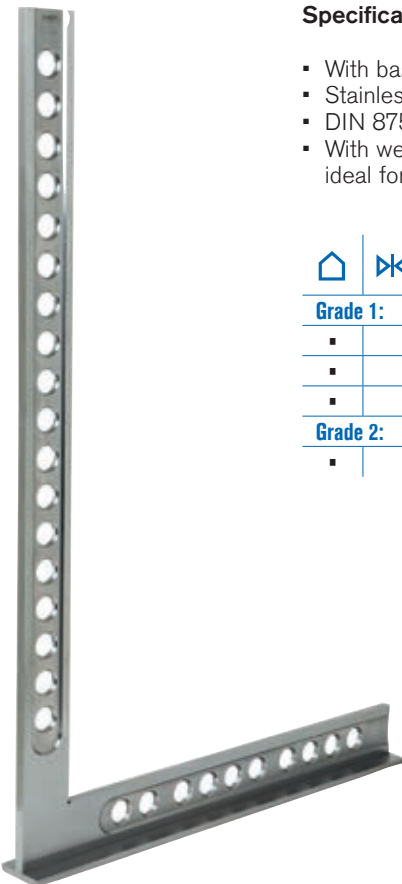
- Cardboard box

DIN
875

			Blade length mm	Stock mm	Blade mm	Ref. No.	List price Euro
▪			75 x 50	14 x 10	14 x 2	0376 102	11.10
▪			100 x 70	16 x 10	16 x 3	0376 103	11.80
▪			150 x 100	20 x 12	22 x 3	0376 104	14.80
▪			200 x 130	24 x 14	24 x 3	0376 105	19.90

0364 Lightweight squares

HP



Specification

- With base
- Stainless steel
- DIN 875
- With weight reducing holes, ideal for mobile operation

Shipment

- Cardboard box

DIN
875

			Blade length mm	Cross section mm	Estimated weight kg	Ref. No.	List price Euro
Grade 1:							
▪			500 x 330	50 x 10	3.1	0364 209	448.00
▪			750 x 500	60 x 12	6.0	0364 211	748.00
▪		▪	1000 x 660	70 x 15	12.0	0364 212	1,048.00
Grade 2:							
▪			1000 x 500	50 x 10	4.6	0364 242	500.00

Accessories

Transport cases

	Ref. No.	List price Euro
For blade length 500 x 330	0003 310	201.00
For blade length 750 x 500	0003 314	242.00
For blade length 1000 x 660	0003 316	263.00
For blade length 1000 x 500	0003 326	263.00



0378 Mitre squares 135°



Specification

- Special steel
- Factory standard

Shipment

- Cardboard box

				Blade length mm	Cross section mm	Ref. No.	List price Euro
With base:							
▪				120 x 80	20 x 5	0378 103	17.10
▪				150 x 100	20 x 5	0378 104	19.30
▪				200 x 130	25 x 5	0378 105	25.40
Flat type:							
▪				120 x 80	20 x 5	0378 113	12.60
▪				150 x 100	20 x 5	0378 114	17.10
▪				200 x 130	25 x 5	0378 115	23.20

0379 Acute angle squares 45°



Specification

- Special steel
- Factory standard

Shipment

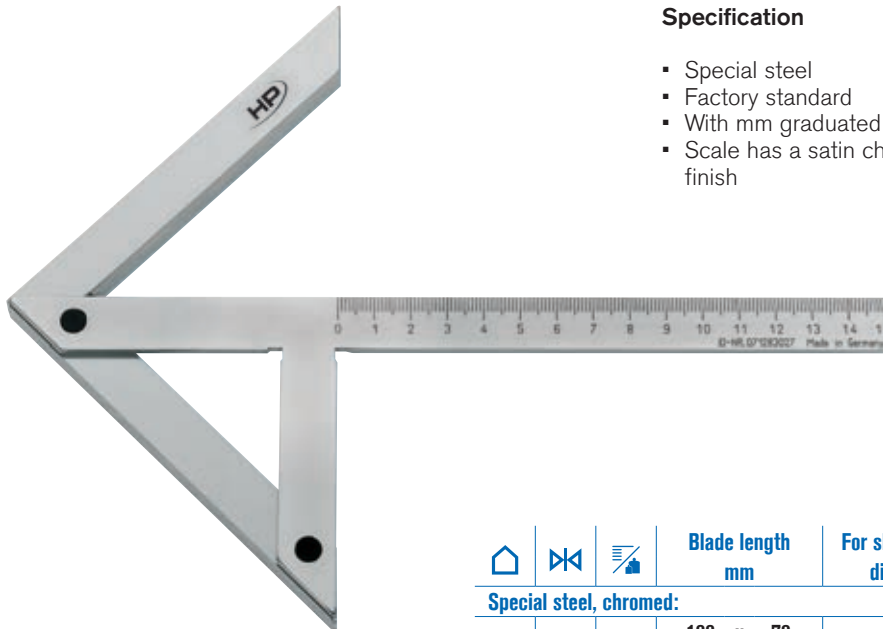
- Cardboard box

				Blade length mm	Cross section mm	Ref. No.	List price Euro
With base:							
▪				120 x 80	20 x 5	0379 103	25.20
▪				150 x 100	20 x 5	0379 104	27.90
▪				200 x 130	25 x 5	0379 105	37.60
Flat type:							
▪				120 x 80	20 x 5	0379 113	17.70
▪				150 x 100	20 x 5	0379 114	19.30
▪				200 x 130	25 x 5	0379 115	27.90





0380 Centre squares






Specification

- Special steel
- Factory standard
- With mm graduated scale
- Scale has a satin chrome finish

Shipment

- Cardboard box

			Blade length mm	For shafts up to diameter	Ref. No.	List price Euro
Special steel, chromed:						
▪			100 x 70	90	0380 103	27.90
▪			150 x 130	190	0380 104	32.90
▪			200 x 150	220	0380 105	40.90
▪			250 x 160	230	0380 106	47.30
▪			300 x 180	280	0380 107	62.00
Special steel:						
▪			400 x 250	380	0380 108	235.00
▪			500 x 330	530	0380 109	418.00



0385 Inspection squares with base, hardened

HP

Specification

- DIN 875
- Accuracy grade 0

DIN
875

Shipment

- Cardboard box



			Blade length mm	Cross section mm	Ref. No.	List price Euro
Special steel:						
▪			50 x 40	15 x 4	0385 102	22.70
▪			75 x 50	15 x 4	0385 103	24.20
▪			100 x 70	20 x 5	0385 104	29.00
▪			150 x 100	30 x 6	0385 105	43.30
▪			200 x 130	30 x 7	0385 106	60.00
▪			300 x 200	40 x 8	0385 108	105.00
Stainless steel:						
▪			50 x 40	15 x 4	0385 202	31.50
▪			75 x 50	15 x 4	0385 203	35.00
▪			100 x 70	20 x 5	0385 204	43.30
▪			150 x 100	30 x 6	0385 205	57.00
▪			200 x 130	30 x 7	0385 206	74.00
▪			300 x 200	40 x 8	0385 208	109.00

0386 Inspection squares without base, hardened

HP

Specification

- DIN 875
- Accuracy grade 0

DIN
875

Shipment

- Cardboard box



			Blade length mm	Cross section mm	Ref. No.	List price Euro
Special steel:						
▪			50 x 40	15 x 4	0386 102	17.10
▪			75 x 50	15 x 4	0386 103	18.50
▪			100 x 70	20 x 5	0386 104	22.50
▪			150 x 100	30 x 6	0386 105	27.90
▪			200 x 130	30 x 7	0386 106	36.10
▪			300 x 200	40 x 8	0386 108	69.00
Stainless steel:						
▪			50 x 40	15 x 4	0386 202	21.70
▪			75 x 50	15 x 4	0386 203	24.60
▪			100 x 70	20 x 5	0386 204	29.00
▪			150 x 100	30 x 6	0386 205	37.60
▪			200 x 130	30 x 7	0386 206	48.60
▪			300 x 200	40 x 8	0386 208	96.00





0390 Squares with stock and blade, hardened

HP

Specification

- DIN 875
- Accuracy grade 0

Shipment

- Cardboard box

DIN
875



			Blade length mm	Blade mm	Stock mm	Ref. No.	List price Euro
Special steel:							
▪			50 x 40	14 x 10	16 x 2	0390 102	32.50
▪			75 x 50	14 x 10	18 x 2	0390 103	32.50
▪			100 x 70	16 x 10	18 x 2	0390 104	37.60
▪			150 x 100	20 x 12	22 x 3	0390 105	48.00
▪			200 x 130	24 x 14	26 x 3	0390 106	64.00
▪			300 x 200	30 x 18	32 x 3	0390 108	109.00
Stainless steel:							
▪			50 x 40	14 x 10	16 x 2	0390 202	43.10
▪			75 x 50	14 x 10	18 x 2	0390 203	49.00
▪			100 x 70	16 x 10	18 x 2	0390 204	62.00
▪			150 x 100	20 x 12	22 x 3	0390 205	80.00
▪			200 x 130	24 x 14	26 x 3	0390 206	100.00
▪			300 x 200	30 x 18	32 x 3	0390 208	154.00

0391 Knife edge squares with stock and blade

HP

Specification

- With knife edge
- DIN 875
- Accuracy grade 00

Shipment

- Cardboard box

DIN
875



			Blade length mm	Blade mm	Stock mm	Ref. No.	List price Euro
Special steel, non-glare knife edge:							
▪			50 x 40	14 x 10	16 x 2	0391 102	51.00
▪			75 x 50	14 x 10	18 x 2	0391 103	51.00
▪			100 x 70	16 x 10	18 x 2	0391 104	65.00
▪			150 x 100	20 x 12	22 x 3	0391 105	83.00
▪			200 x 130	24 x 14	26 x 3	0391 106	112.00
▪			300 x 200	30 x 18	32 x 3	0391 108	162.00
Stainless steel:							
▪			50 x 40	14 x 10	16 x 2	0391 202	60.00
▪			75 x 50	14 x 10	18 x 2	0391 203	67.00
▪			100 x 70	16 x 10	18 x 2	0391 204	77.00
▪			150 x 100	20 x 12	22 x 3	0391 205	98.00
▪			200 x 130	24 x 14	26 x 3	0391 206	125.00
▪			300 x 200	30 x 18	32 x 3	0391 208	204.00



0388 Knife edge squares, hardened

HP

Specification

- DIN 875
- Accuracy grade 00
- Non-glare knife edge

DIN
875

Shipment

- Cardboard box



			Blade length mm	Cross section mm	Ref. No.	List price Euro
Special steel:						
▪			50 x 40	14 x 4	0388 102	18.20
▪			75 x 50	15 x 4	0388 103	21.50
▪			100 x 70	20 x 5	0388 104	25.80
▪			150 x 100	25 x 6	0388 105	34.60
▪			200 x 130	30 x 7	0388 106	49.00
▪			300 x 200	40 x 8	0388 108	85.00
Stainless steel:						
▪			50 x 40	14 x 4	0388 202	21.50
▪			75 x 50	15 x 4	0388 203	25.40
▪			100 x 70	20 x 5	0388 204	30.50
▪			150 x 100	25 x 6	0388 205	39.40
▪			200 x 130	30 x 7	0388 206	58.00
▪			300 x 200	40 x 8	0388 208	127.00
▪			500 x 330	40 x 10	0388 210	481.00

0394 Pattern maker angle, adjustable, hardened

HP

Specification

- Satin chrome reading parts
- Sliding knife edge rule:
7 x 7 x 100 mm, angle
adjustable up to $\pm 5^\circ$
- Handle 35 x 13 x 60 mm

Shipment

- Wooden case



			Ref. No.	List price Euro
▪			0394 101	169.00

Replacement rule

HP

	Ref. No.	List price Euro
Replacement rule for 0394	0394 104	34.40





0387 Knife edge squares, hardened



Specification

- Stainless steel
- DIN 875
- Accuracy grade 00
- Angle 90°
- Shearing knife edge on the inside

Shipment

- Cardboard box

**DIN
875**

				Blade length mm	Beam mm	Blade mm	Ref. No.	List price Euro
▪				25 x 20	6 x 3.5	5 x 3.5	0387 200	16.10
▪				40 x 28	8 x 3.5	5 x 3.5	0387 201	16.10

0387 Inspection square set



Set consisting of:

- Knife edge squares
0387 200 and 0387 201

Inspection square set

Ref. No.

0387 204

List price Euro

37.60

Shipment

- Wooden case

0397 5 piece inspection set



Set contains:

- Knife edge square, stainless steel 75 x 50 mm
- Knife edge square, stainless steel 40 x 28 mm
- Knife edge square, stainless steel 25 x 20 mm
- Knife edge rule, special steel 100 mm
- Gauge block scribe 60 x 9 x 9 mm

Shipment

- Wooden case

				Ref. No.	List price Euro
▪				0397 101	165.00



0003 Wooden cases for squares

HP



			Blade length mm	Dimensions mm	Ref. No.	List price Euro
For squares with base:						
▪			50 x 40	55 x 45 x 22	0003 280	3.80
▪			75 x 50	80 x 55 x 22	0003 281	4.20
			100 x 70	105 x 75 x 22	0003 282	4.40
▪			150 x 100	160 x 105 x 27	0003 284	6.10
▪			200 x 130	210 x 135 x 34	0003 286	8.10
▪			250 x 165	260 x 170 x 38	0003 288	17.30
▪			300 x 200	312 x 205 x 42	0003 290	17.30
▪			400 x 265	412 x 270 x 48	0003 292	33.00
▪			500 x 330	512 x 335 x 54	0003 294	37.20
For Flat type squares:						
▪			50 x 40	55 x 45 x 22	0003 280	3.80
▪			75 x 50	80 x 55 x 22	0003 281	4.20
			100 x 70	105 x 75 x 22	0003 282	4.40
▪			150 x 100	160 x 105 x 27	0003 283	5.50
▪			200 x 130	210 x 135 x 27	0003 285	6.90
▪			250 x 165	260 x 170 x 27	0003 287	7.70
▪			300 x 200	312 x 205 x 27	0003 289	10.40
▪			400 x 265	412 x 270 x 27	0003 291	29.90
▪			500 x 330	512 x 335 x 27	0003 293	33.30





0410 Protractors



Specification

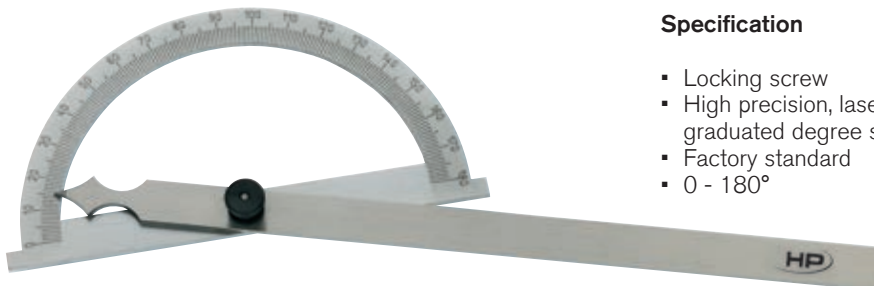
- With rivetted hinge
- Special steel, matt chrome plated
- Factory standard
- 0 - 180°

Shipment

- Cardboard box

			Graduated arc dia. mm	Pointer arm mm	Ref. No.	List price Euro
▪			80	120	0410 301	21.50
▪			120	150	0410 302	26.80
▪			150	200	0410 303	29.00
▪			200	300	0410 304	43.10

0411 Protractors



Specification

- Locking screw
- High precision, laser graduated degree scale
- Factory standard
- 0 - 180°

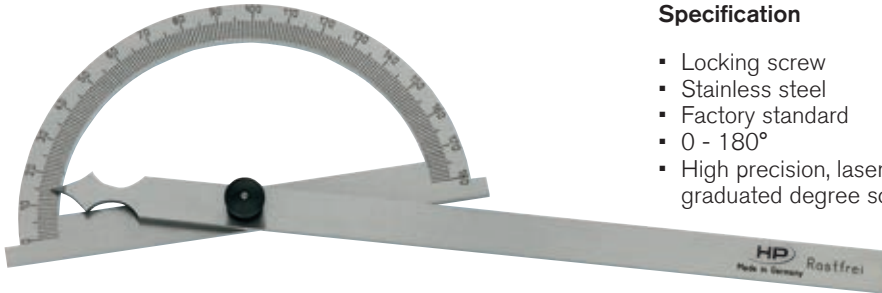
Shipment

- Cardboard box

			Graduated arc dia. mm	Pointer arm mm	Ref. No.	List price Euro
Special steel:						
▪			80	120	0411 101	20.30
▪			120	150	0411 102	25.40
▪			150	200	0411 103	31.80
▪			200	300	0411 104	42.10
▪			300	500	0411 105	60.00
▪			300	600	0411 106	74.00
			300	800	0411 107	97.00
			400	600	0411 108	125.00
			400	800	0411 109	133.00
			400	1000	0411 110	138.00
Special steel, matt chrome plated graduated arc:						
▪			80	120	0411 301	22.50
▪			120	150	0411 302	29.00
▪			150	200	0411 303	32.30
▪			200	300	0411 304	46.30
▪			300	500	0411 305	65.00
▪			300	600	0411 306	83.00
			300	800	0411 307	105.00
			400	600	0411 308	132.00
			400	800	0411 309	139.00
			400	1000	0411 310	171.00



0412 Protractors



Specification

- Locking screw
- Stainless steel
- Factory standard
- 0 - 180°
- High precision, laser graduated degree scale

Shipment

- Cardboard box

				Graduated arc dia. mm	Pointer arm mm	Ref. No.	List price Euro
▪				80	120	0412 201	31.80
▪				120	150	0412 202	34.40
▪				150	200	0412 203	35.40
▪				200	300	0412 204	49.60

0413 Protractors



0413 301



0413 302

Specification

- Locking screw
- Special steel
- Factory standard
- 0 - 180°
- High precision, laser graduated degree scale
- Graduated in opposite directions
- Matt chrome plated

Shipment

- Cardboard box

				Dimensions mm	Pointer arm mm	Ref. No.	List price Euro
Semicircular head:							
▪				dia. 85	150	0413 301	13.90
Rectangular head:							
▪				85 x 50	150	0413 302	15.40





0415 Bevel protractors



Specification

- Locking screw
- Special steel, pointer arm is matt chrome plated
- Factory standard
- Adjustable stop bar 10° - 170°
- High precision, laser graduated degree scale



Shipment

- Cardboard box

				Graduated arc dia. mm	Pointer arm mm	Ref. No.	List price Euro
▪				100	150	0415 301	58.00
▪				150	300	0415 302	90.00
				200	400	0415 303	122.00
				250	500	0415 304	168.00
				300	600	0415 305	190.00

0416 Bevel protractors with double stop rail



Specification

- Locking screw
- Special steel, pointer arm is matt chrome plated
- Factory standard
- Adjustable stop bar 10° - 170°
- High precision, laser graduated degree scale
- Two-way adjustable stop bar



Shipment

- Cardboard box

				Graduated arc dia. mm	Pointer arm mm	Ref. No.	List price Euro
▪				100	150	0416 301	117.00
▪				150	300	0416 302	153.00
				200	400	0416 303	197.00
				250	500	0416 304	327.00
				300	600	0416 305	379.00



0422 Universal bevel protractors with magnifying lense



Specification

- Locking screw
- Stainless steel
- Factory standard
- Fine adjustment screw
- Parallax free reading
- Reading parts satin chrome plated
- Vernier scale reading 5 minutes
- Hardened beam

Shipment

- Wooden case

				Segment	Blade mm	Ref. No.	List price Euro
▪				4 x 90°	150	0422 501	109.00
▪				4 x 90°	200	0422 502	128.00
▪				4 x 90°	300	0422 503	131.00
▪				4 x 90°	500	0422 504	140.00

0425 DIGI-MET® Universal bevel protractors



Specification

- Clamping unit
- Stainless steel
- Factory standard
- Reversible indication - degree and minutes - decimal degree
- Data output: Opto RS 232

Electronic functions

- ON/OFF switch
- Zero setting at any position
- Reversible measuring range:
 - 1 x 360°
 - 2 x 180°
 - 4 x 90°

Shipment

- Wooden case

				Blade mm	Reading	Ref. No.	List price Euro
				150	0.01° or 1'	0425 701	938.00
				200	0.01° or 1'	0425 702	943.00
				300	0.01° or 1'	0425 703	960.00

Accessories

	Ref. No.	List price Euro
Battery, 3V-Lithium, CR 2032	0220 704	3.50
Cable for Opto to RS 232	0996 701	69.00
Cable for Opto to USB	0996 705	132.00





Replacement blades for 0422 / 0425

HP



				Blade mm	Ref. No.	List price Euro
▪				150	0425 211	25.80
▪				200	0425 212	29.00
▪				300	0425 213	32.50
▪				500	0425 214	45.80

0420 Universal bevel protractors



Specification

- Locking screw
- Stainless steel
- Factory standard
- Vernier scale reading 5 minutes

Shipment

- Cardboard box

				Segment	Blade mm	Ref. No.	List price Euro
▪				4 x 90°	150	0420 201	51.00
▪				4 x 90°	200	0420 202	54.00
▪				4 x 90°	300	0420 203	58.00



0420 121



0420 124



0420 206



0420 122

Accessories

					Ref. No.	List price Euro
▪				Magnifying lense	0420 121	14.60
▪				Angle stop	0420 122	27.90
▪				Prismatic base	0420 124	35.00
▪				Replacement blade 150 mm	0420 206	16.50
▪				Replacement blade 200 mm	0420 207	17.30
▪				Replacement blade 300 mm	0420 208	17.50



THE SERVICE IS ALWAYS RIGHT

You can rely on this; we are very proud of our service – this includes high quality in all areas, whether in our calibration laboratory or in our repair department. As the production is on our Gammertingen site we can decide what, when and how many items are going to be produced; naturally, when making these decisions our customer requirements have top priority. If something is no longer available and required urgently then this has a priority in production; this results in high product availability optimized delivery and extremely satisfied customers. In the age of the internet and being online always means everything has to be faster, databanks and an E-Shop have become crucial – therefore, in the future our trading partners can simply order per mouse click.

CHAPTER 6 RULES, STANDARDS, INSPECTION EQUIPMENT



Rules	6/2
Inspection rules	6/8
Knife edge rules	6/10
Mounting straight edges	6/11
Inspection plates	6/12
Lapping and inspection plate	6/13
Measuring and inspection plates	6/14
Angle normal	6/15
Sine bars, V-blocks	6/16
Parallel blocks	6/20
Machine levels	6/21
Combined lathe and thread cutting gauge, ISO-viewer	6/23
Grinding and welding gauges, Chamfer gauges	6/26
Radius gauge, Hole gauges, Nozzle / Hole gauges	6/27
Radius gauges	6/29
Screw pitch gauges, Feeler gauges	6/30
Steel gauge blocks and accessories	6/34
Pin gauges	6/42
Plug gauges	6/44
Snap gauges	6/46
Ring gauges	6/48
Thread plug gauges	6/49
Thread ring gauges	6/50

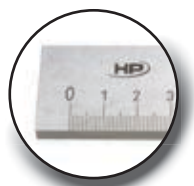


0451 Graduated straight rules acc. to DIN 866, type A

HP



DIN
866-A



Specification

- Tolerance class in accordance to DIN 2268
- 10 mm protective ends
- mm graduated scale

			Length mm	Cross section mm	Ref. No.	List price Euro
Special steel:						
▪			500	30 x 6	0451 101	23.20
▪			1000	40 x 8	0451 102	53.00
		▪	1500	40 x 8	0451 103	95.00
		▪	2000	50 x 10	0451 104	132.00
		▪	3000	50 x 10	0451 105	273.00
		▪	4000	60 x 12	0451 106	496.00
Stainless steel:						
▪			500	30 x 6	0451 201	41.10
▪			1000	40 x 8	0451 202	94.00
		▪	1500	40 x 8	0451 203	140.00
		▪	2000	50 x 10	0451 204	246.00
		▪	3000	50 x 10	0451 205	496.00
		▪	4000	60 x 12	0451 206	896.00

0452 Graduated straight rules acc. to DIN 866, type B

HP



DIN
866-B



Specification

- Tolerance class in accordance to DIN 2268
- Graduated scale begins directly on the end of rule, the other end has a 10 mm protective end

			Length mm	Cross section mm	Ref. No.	List price Euro
Special steel:						
▪			500	25 x 5	0452 101	12.20
▪			1000	30 x 6	0452 103	26.00
▪		▪	1500	30 x 6	0452 104	39.80
▪		▪	2000	40 x 8	0452 105	66.00
		▪	2500	40 x 8	0452 106	135.00
		▪	3000	40 x 8	0452 107	149.00
		▪	4000	50 x 10	0452 108	285.00
		▪	5000	60 x 12	0452 109	511.00
Stainless steel:						
▪			500	25 x 5	0452 201	23.20
▪			1000	30 x 6	0452 203	53.00
▪		▪	1500	30 x 6	0452 204	90.00
▪		▪	2000	40 x 8	0452 205	144.00
		▪	2500	40 x 8	0452 206	275.00
		▪	3000	40 x 8	0452 207	286.00
		▪	4000	50 x 10	0452 208	513.00
		▪	5000	60 x 12	0452 209	979.00



0460 Flexible steel rules



0460 204



0460 222



0460 242

Specification

- Stainless spring band steel
- EC grade II
- Rules with special graduations or other scales are available upon request

			Length mm	Cross section mm	Ref. No.	List price Euro
Scales: mm top and bottom						
▪			150	13 x 0.5	0460 201	1.00
▪			200	13 x 0.5	0460 202	1.00
▪			300	15 x 0.5	0460 204	1.40
▪			500	20 x 0.5	0460 205	3.80
▪			1000	20 x 0.5	0460 206	8.30
▪			300	30 x 1.0	0460 207	2.90
▪			500	30 x 1.0	0460 208	6.90
▪			1000	30 x 1.0	0460 209	14.40
▪			1500	30 x 1.0	0460 210	23.20
▪			2000	30 x 1.0	0460 211	27.90
▪			3000	30 x 1.0	0460 212	64.00
▪		▪	3000	30 x 2.0	0460 213	100.00
Scales: 1/2 mm top, mm bottom						
▪			150	13 x 0.5	0460 221	1.00
▪			200	13 x 0.5	0460 222	1.00
▪			250	15 x 0.5	0460 223	1.40
▪			300	15 x 0.5	0460 224	1.40
▪			500	20 x 0.5	0460 225	3.80
▪			1000	20 x 0.5	0460 226	8.30
▪			300	30 x 1.0	0460 227	2.90
▪			500	30 x 1.0	0460 228	6.90
▪			1000	30 x 1.0	0460 229	14.40
			1500	30 x 1.0	0460 230	23.20
			2000	30 x 1.0	0460 231	27.90
			3000	30 x 1.0	0460 232	64.00
		▪	3000	30 x 2.0	0460 233	100.00
Scales: 1/16", 1/32", 1/64" top; 1/2 mm, 1/1 mm bottom						
▪			150	13 x 0.5	0460 241	1.00
▪			200	13 x 0.5	0460 242	1.00
▪			250	15 x 0.5	0460 243	1.40
▪			300	15 x 0.5	0460 244	1.40
▪			500	20 x 0.5	0460 245	3.80
▪			1000	20 x 0.5	0460 246	8.30
			300	30 x 1.0	0460 247	2.90
			500	30 x 1.0	0460 248	6.90
			1000	30 x 1.0	0460 249	14.40
			1500	30 x 1.0	0460 250	23.20
			2000	30 x 1.0	0460 251	27.90
			3000	30 x 1.0	0460 252	64.00
		▪	3000	30 x 2.0	0460 253	100.00



0460 Flexible steel rules, matt chrome



0460 502



0460 522

Specification

- Stainless spring band steel
- Scales matt chrome plated
- EC grade II

			Length mm	Cross section mm	Ref. No.	List price Euro
Scales: mm top and bottom						
▪			150	13 x 0.5	0460 501	2.40
▪			200	13 x 0.5	0460 502	3.80
▪			300	15 x 0.5	0460 504	4.40
▪			500	20 x 0.5	0460 505	9.60
▪			1000	20 x 0.5	0460 506	19.50
▪			300	30 x 1.0	0460 507	5.10
▪			500	30 x 1.0	0460 508	10.60
▪			1000	30 x 1.0	0460 509	22.10
▪		▪	1500	35 x 1.3	0460 510	64.00
▪		▪	2000	35 x 1.3	0460 511	101.00
▪		▪	3000	35 x 1.3	0460 512	212.00
Scales: 1/2 mm top and mm bottom						
▪			150	13 x 0.5	0460 521	2.40
▪			200	13 x 0.5	0460 522	3.80
▪			300	15 x 0.5	0460 524	4.40
▪			500	20 x 0.5	0460 525	9.60
▪			1000	20 x 0.5	0460 526	19.50
▪			300	30 x 1.0	0460 527	5.10
▪			500	30 x 1.0	0460 528	10.60
▪			1000	30 x 1.0	0460 529	22.10



0461 Contraction rules for model builders



Specification

- Stainless spring band steel
- Scales matt chrome plated
- Factory standard

			Length mm	Cross section mm	Ref. No.	List price Euro
Contraction scale: 0.30%						
▪			300	15 x 0.5	0461 501	4.20
▪			500	30 x 1.0	0461 502	17.10
▪			1000	35 x 1.3	0461 503	43.30
▪		▪	2000	35 x 1.3	0461 504	97.00
Contraction scale: 0.40%						
▪			300	15 x 0.5	0461 505	4.20
▪			500	30 x 1.0	0461 506	17.10
▪			1000	35 x 1.3	0461 507	43.30
▪		▪	2000	35 x 1.3	0461 508	97.00
Contraction scale: 0.50%						
▪			300	15 x 0.5	0461 509	4.20
▪			500	30 x 1.0	0461 510	17.10
▪			1000	35 x 1.3	0461 511	43.30
▪		▪	2000	35 x 1.3	0461 512	97.00
Contraction scale: 0.60%						
▪			300	15 x 0.5	0461 513	4.20
▪			500	30 x 1.0	0461 514	17.10
▪			1000	35 x 1.3	0461 515	43.30
▪		▪	2000	35 x 1.3	0461 516	97.00
Contraction scale: 0.70%						
▪			300	15 x 0.5	0461 517	4.20
▪			500	30 x 1.0	0461 518	17.10
▪			1000	35 x 1.3	0461 519	43.30
▪		▪	2000	35 x 1.3	0461 520	97.00
Contraction scale: 0.75%						
▪			300	15 x 0.5	0461 521	4.20
▪			500	30 x 1.0	0461 522	17.10
▪			1000	35 x 1.3	0461 523	43.30
▪		▪	2000	35 x 1.3	0461 524	97.00
Contraction scale: 0.80%						
▪			300	15 x 0.5	0461 525	4.20
▪			500	30 x 1.0	0461 526	17.10
▪			1000	35 x 1.3	0461 527	43.30
▪		▪	2000	35 x 1.3	0461 528	97.00
Contraction scale: 0.90%						
▪			300	15 x 0.5	0461 529	4.20
▪			500	30 x 1.0	0461 530	17.10
▪			1000	35 x 1.3	0461 531	43.30
▪		▪	2000	35 x 1.3	0461 532	97.00



0461 Contraction rules for model builders



Specification

- Stainless spring band steel
- Scales matt chrome plated
- Factory standard

			Length mm	Cross section mm	Ref. No.	List price Euro
Contraction scale: 1.00%						
▪			300	15 x 0.5	0461 533	4.20
▪			500	30 x 1.0	0461 534	17.10
▪			1000	35 x 1.3	0461 535	43.30
▪		▪	2000	35 x 1.3	0461 536	97.00
Contraction scale: 1.25%						
▪			300	15 x 0.5	0461 537	4.20
▪			500	30 x 1.0	0461 538	17.10
▪			1000	35 x 1.3	0461 539	43.30
▪		▪	2000	35 x 1.3	0461 540	97.00
Contraction scale: 1.50%						
▪			300	15 x 0.5	0461 541	4.20
▪			500	30 x 1.0	0461 542	17.10
▪			1000	35 x 1.3	0461 543	43.30
▪		▪	2000	35 x 1.3	0461 544	97.00
Contraction scale: 1.75%						
▪			300	15 x 0.5	0461 545	4.20
▪			500	30 x 1.0	0461 546	17.10
▪			1000	35 x 1.3	0461 547	43.30
▪		▪	2000	35 x 1.3	0461 548	97.00
Contraction scale: 2.00%						
▪			300	15 x 0.5	0461 549	4.20
▪			500	30 x 1.0	0461 550	17.10
▪			1000	35 x 1.3	0461 551	43.30
▪		▪	2000	35 x 1.3	0461 552	97.00
Contraction scale: 2.25%						
▪			300	15 x 0.5	0461 553	4.20
▪			500	30 x 1.0	0461 554	17.10
▪			1000	35 x 1.3	0461 555	43.30
▪		▪	2000	35 x 1.3	0461 556	97.00
Contraction scale: 2.50%						
▪			300	15 x 0.5	0461 557	4.20
▪			500	30 x 1.0	0461 558	17.10
▪			1000	35 x 1.3	0461 559	43.30
▪		▪	2000	35 x 1.3	0461 560	97.00



0458 Steel scale tapes for circumference and diameter



0458 102

Specification

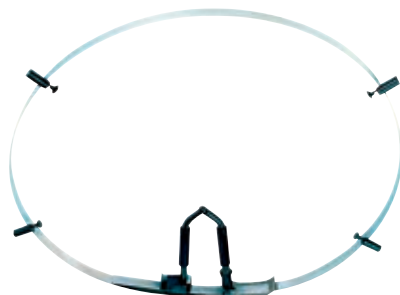
- Factory standard
- Vernier 0.1 mm
- Main scale graduation 1 mm

Shipment

- Cardboard box

			For circumference mm	For diameter mm	Ref. No.	List price Euro
Spring band steel:						
▪			60 - 950	20 - 300	0458 102	34.40
▪			940 - 2200	300 - 700	0458 103	41.10
▪			2190 - 3460	700 - 1100	0458 104	53.00
			3450 - 4720	1100 - 1500	0458 105	63.00
			4710 - 5980	1500 - 1900	0458 106	77.00
			5960 - 7230	1900 - 2300	0458 107	87.00
			7220 - 8500	2300 - 2700	0458 108	217.00
			8480 - 9760	2700 - 3100	0458 109	233.00
			9730 - 11010	3100 - 3500	0458 110	270.00
			11000 - 12260	3500 - 3900	0458 111	421.00
			12250 - 13500	3900 - 4300	0458 112	433.00
			13500 - 14760	4300 - 4700	0458 113	437.00
			14760 - 16020	4700 - 5100	0458 114	443.00
			16020 - 17270	5100 - 5500	0458 115	454.00
			17270 - 18520	5500 - 5900	0458 116	465.00
			18350 - 19780	5900 - 6300	0458 117	596.00
Stainless spring band steel:						
▪			60 - 950	20 - 300	0458 202	61.00
▪			940 - 2200	300 - 700	0458 203	78.00
▪			2190 - 3460	700 - 1100	0458 204	94.00
			3450 - 4720	1100 - 1500	0458 205	124.00
			4710 - 5980	1500 - 1900	0458 206	151.00
			5960 - 7230	1900 - 2300	0458 207	176.00

0458 Interior circumference tapes



			For circumference mm	For diameter mm	Ref. No.	List price Euro
			720 - 1550	230 - 490	0458 252	258.00
			940 - 2200	300 - 700	0458 253	269.00
			2190 - 3620	700 - 1100	0458 254	288.00
			3450 - 4720	1100 - 1500	0458 255	330.00
			4710 - 5980	1500 - 1900	0458 256	360.00
			5970 - 7230	1900 - 2300	0458 257	427.00
			7220 - 8500	2300 - 2700	0458 258	496.00
Expanding collet for interior circumference tapes:						
				For all sizes	0458 291	387.00

Specification

- To measure the internal circumference and the mean diameter of a round, oval or a continuous polygon bore
- Main scale graduation 1 mm
- Vernier 0.1 mm
- Laser graduation
- Stainless spring band steel
- The tape is attached through an expanding collet
- Cardboard box

Shipment



0464 / 0465 Steel rules made of special steel

HP



rectangular cross section

DIN
874



I shaped cross section

Specification

- DIN 874 Sheet 1

			Length mm	Cross section mm	Ref. No.	List price Euro
Accuracy grade 0						
Special steel, rectangular cross section:						
▪			500	50 x 10	0464 101	59.00
▪			750	50 x 10	0464 102	85.00
▪			1000	60 x 12	0464 103	132.00
▪		▪	1500	70 x 15	0464 104	223.00
Special steel, I shaped cross section, 2 hand slots:						
		▪	2000	80 x 15	0464 105	399.00
		▪	2500	100 x 16	0464 106	679.00
		▪	3000	120 x 18	0464 107	1,042.00
		▪	4000	140 x 20	0464 108	1,791.00
		▪	5000	140 x 20	0464 109	2,226.00
Accuracy grade 1						
Special steel, rectangular cross section:						
▪			500	40 x 8	0465 101	29.00
▪			750	50 x 10	0465 102	48.00
▪			1000	50 x 10	0465 103	64.00
▪		▪	1500	60 x 12	0465 104	119.00
Special steel, I shaped cross section, 2 hand slots:						
▪		▪	2000	70 x 15	0465 105	240.00
		▪	2500	80 x 15	0465 106	451.00
		▪	3000	100 x 16	0465 107	774.00
		▪	4000	120 x 18	0465 108	1,251.00
		▪	5000	140 x 20	0465 109	2,167.00
Accuracy grade 2						
Special steel, rectangular cross section:						
▪			500	30 x 6	0466 101	19.90
▪			750	40 x 8	0466 102	35.00
▪			1000	40 x 8	0466 103	39.80
▪		▪	1500	50 x 10	0466 104	77.00
▪		▪	2000	60 x 12	0466 105	104.00
		▪	2500	70 x 15	0466 106	230.00
		▪	3000	80 x 15	0466 107	360.00
Special steel, I shaped cross section, 2 hand slots:						
		▪	4000	100 x 16	0466 108	854.00
		▪	5000	120 x 18	0466 109	1,286.00



0466 Steel rules made of stainless steel

HP



rectangular cross section

DIN
874



I shaped cross section

Specification

- DIN 874 Sheet 1

			Length mm	Cross section mm	Ref. No.	List price Euro
Accuracy grade 0						
Stainless steel, rectangular cross section:						
			500	50 x 10	0464 201	93.00
			750	50 x 10	0464 202	127.00
			1000	60 x 12	0464 203	240.00
		▪	1500	70 x 15	0464 204	399.00
Stainless steel, I shaped cross section, 2 hand slots:						
		▪	2000	80 x 15	0464 205	739.00
		▪	2500	100 x 16	0464 206	1,286.00
		▪	3000	120 x 18	0464 207	2,275.00
		▪	4000	140 x 20	0464 208	4,057.00
		▪	5000	140 x 20	0464 209	5,130.00
Accuracy grade 1						
Stainless steel, rectangular cross section:						
			500	40 x 8	0465 201	53.00
			750	50 x 10	0465 202	82.00
			1000	50 x 10	0465 203	147.00
		▪	1500	60 x 12	0465 204	230.00
Stainless steel, I shaped cross section, 2 hand slots:						
		▪	2000	70 x 15	0465 205	542.00
		▪	2500	80 x 15	0465 206	826.00
		▪	3000	100 x 16	0465 207	1,591.00
		▪	4000	120 x 18	0465 208	2,343.00
		▪	5000	140 x 20	0465 209	4,296.00
Accuracy grade 2						
Stainless steel, rectangular cross section:						
			500	30 x 6	0466 201	34.40
			750	40 x 8	0466 202	60.00
			1000	40 x 8	0466 203	87.00
		▪	1500	50 x 10	0466 204	184.00
		▪	2000	60 x 12	0466 205	309.00
		▪	2500	70 x 15	0466 206	513.00
		▪	3000	80 x 15	0466 207	734.00
Stainless steel, I shaped cross section, 2 hand slots:						
		▪	4000	100 x 16	0466 208	1,365.00
		▪	5000	120 x 18	0466 209	2,047.00



0512 Knife edge rules

HP

DIN
874



Specification

- DIN 874 Sheet 2, accuracy GG 00 from 500 mm: Factory standard
- Thermally insulated
- Pointed tip at one end
- Special steel: glare free and burnished knife edge
- Stainless steel: non glare knife edge

Shipment

- Imitation leather case

				Length mm	Cross section mm	Ref. No.	List price Euro
Special steel, hardened and ground:							
▪				75	22 x 6	0512 101	9.40
▪				100	22 x 6	0512 102	10.60
▪				125	22 x 6	0512 103	12.00
▪				150	22 x 6	0512 104	13.60
▪				200	22 x 6	0512 105	17.70
▪				300	30 x 7	0512 106	33.30
▪				400	40 x 7	0512 107	59.00
▪				500	40 x 7	0512 108	93.00
Stainless steel, hardened and ground:							
▪				75	22 x 6	0512 201	12.20
▪				100	22 x 6	0512 202	14.40
▪				125	22 x 6	0512 203	15.00
▪				150	22 x 6	0512 204	16.70
▪				200	22 x 6	0512 205	19.30
▪				300	30 x 7	0512 206	42.10
▪				400	40 x 7	0512 207	77.00
▪				500	40 x 7	0512 208	104.00
				600	40 x 7	0512 209	201.00
				750	45 x 10	0512 210	371.00
				1000	45 x 10	0512 211	468.00

0512 Wooden cases for knife edge rules

HP

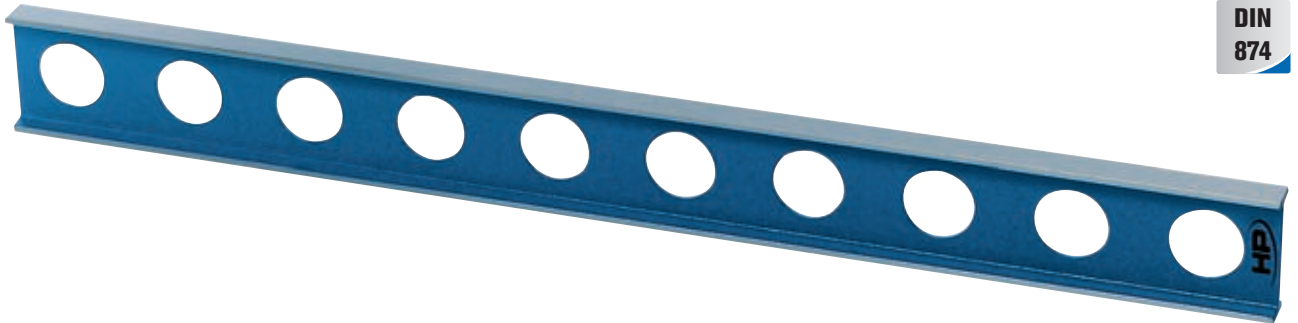
				For length mm	Ref. No.	List price Euro
▪				75	0512 601	4.20
▪				100	0512 602	4.20
▪				125	0512 603	4.40
▪				150	0512 604	5.50
▪				200	0512 605	5.30
▪				300	0512 606	7.90
▪				400	0512 607	8.10
▪				500	0512 608	12.20
▪				600	0512 609	12.20
▪				750	0512 610	21.50
▪				1000	0512 611	33.30



0467 Mounting straight edges




HP

DIN
874



Specification

- DIN 874 Sheet 1
- Special steel

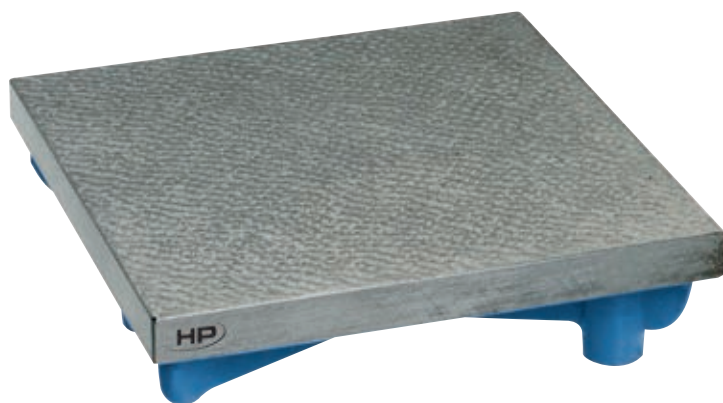
			Length mm	Cross section mm	Ref. No.	List price Euro
Accuracy: GG 0						
			1000	160 x 50	0467 011	581.00
		▪	1500	160 x 50	0467 012	831.00
		▪	2000	160 x 50	0467 013	1,082.00
		▪	2500	160 x 50	0467 014	1,393.00
		▪	3000	180 x 60	0467 015	2,330.00
		▪	4000	180 x 60	0467 016	3,240.00
		▪	5000	200 x 80	0467 017	5,624.00
Accuracy: GG 1						
			1000	100 x 30	0467 111	428.00
		▪	1500	100 x 30	0467 112	576.00
		▪	2000	120 x 40	0467 113	769.00
		▪	2500	120 x 40	0467 114	1,052.00
		▪	3000	140 x 40	0467 115	1,417.00
		▪	4000	140 x 40	0467 116	1,865.00
		▪	5000	140 x 40	0467 117	2,955.00



0478 Inspection plates

HP

DIN
876



Specification

- Special cast iron
- Flatness in accordance to DIN 876-2
- Rigid ripped construction
- Additional sizes and degree of accuracy on request

			Dimensions mm	Ref. No.	List price Euro
Accuracy grade 0, scraped:					
			200 x 200	0478 012	155.00
			300 x 300	0478 015	270.00
		▪	400 x 300	0478 016	340.00
		▪	400 x 400	0478 017	440.00
		▪	500 x 400	0478 018	540.00
		▪	500 x 500	0478 019	670.00
		▪	600 x 500	0478 021	840.00
		▪	800 x 500	0478 024	1,200.00
		▪	1000 x 600	0478 027	1,880.00
		▪	1000 x 1000	0478 030	2,550.00
		▪	1500 x 1000	0478 032	4,480.00
		▪	2000 x 1000	0478 033	6,220.00
Accuracy grade 1, finely scraped:					
			200 x 200	0478 112	115.00
			300 x 300	0478 115	200.00
		▪	400 x 300	0478 116	270.00
		▪	400 x 400	0478 117	340.00
		▪	500 x 400	0478 118	380.00
		▪	500 x 500	0478 119	490.00
		▪	600 x 500	0478 121	540.00
		▪	800 x 500	0478 124	900.00
		▪	1000 x 600	0478 127	1,600.00
		▪	1000 x 1000	0478 130	2,000.00
		▪	1500 x 1000	0478 132	3,550.00
		▪	2000 x 1000	0478 133	5,000.00



0478 Inspection plates

HP

DIN
876

			Dimensions mm	Ref. No.	List price Euro
Accuracy grade 3, milled:					
			200 x 200	0478 312	90.00
			300 x 300	0478 315	145.00
		■	400 x 300	0478 316	175.00
		■	400 x 400	0478 317	210.00
		■	500 x 400	0478 318	270.00
		■	500 x 500	0478 319	400.00
		■	600 x 500	0478 321	440.00
		■	800 x 500	0478 324	630.00
		■	1000 x 600	0478 327	1,000.00
		■	1000 x 1000	0478 330	1,400.00
		■	1500 x 1000	0478 332	3,000.00
		■	2000 x 1000	0478 333	3,600.00

0478 Base stand for surface plates

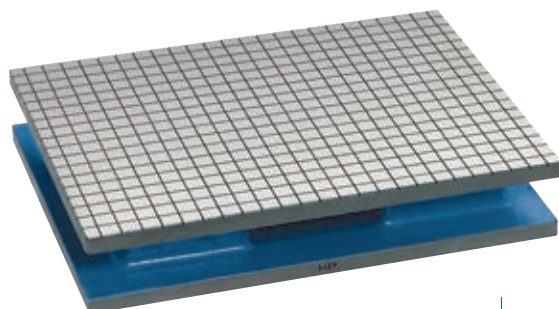
HP



			Dimensions for surface plates mm	Ref. No.	List price Euro
			400 x 400	0478 907	235.00
			500 x 400	0478 908	235.00
			500 x 500	0478 909	253.00
		■	600 x 500	0478 911	264.00
		■	800 x 500	0478 914	297.00
		■	1000 x 600	0478 917	387.00
		■	1000 x 1000	0478 920	409.00
		■	1500 x 1000	0478 922	643.00
		■	2000 x 1000	0478 923	758.00

0482 Lapping and inspection plate

HP



Specification

- High grade cast iron
- Finely ground
- One side for lapping with rectangular grooves, one side as inspection plate flat straight trough

Shipment

- Wooden case

			Dimensions mm	Ref. No.	List price Euro
		■	360 x 260 x 65	0482 101	379.00



0481 Measuring and inspection plates

HP

DIN
876



Specification

- Granite
- Flatness in accordance to DIN 876-1
- Acid resistant
- Steel ball inserts
- Further sizes and degrees of accuracy are available upon request

Shipment

- Without base stand (option)

			Dimensions mm	Ref. No.	List price Euro
Accuracy grade 00:					
		▪	400 x 400 x 50	0481 023	283.00
		▪	500 x 400 x 90	0481 024	409.00
		▪	600 x 500 x 100	0481 025	614.00
		▪	800 x 600 x 120	0481 028	1,020.00
		▪	1000 x 600 x 140	0481 030	1,165.00
		▪	1200 x 800 x 160	0481 034	1,923.00
Accuracy grade 0:					
		▪	400 x 400 x 50	0481 043	240.00
		▪	500 x 400 x 90	0481 044	351.00
		▪	600 x 500 x 100	0481 045	521.00
		▪	800 x 600 x 120	0481 048	875.00
		▪	1000 x 600 x 140	0481 050	1,109.00
		▪	1200 x 800 x 160	0481 054	1,748.00
Accuracy grade 1:					
		▪	400 x 400 x 50	0481 103	206.00
		▪	500 x 400 x 90	0481 104	298.00
		▪	600 x 500 x 100	0481 105	455.00
		▪	800 x 600 x 120	0481 108	758.00
		▪	1000 x 600 x 140	0481 110	1,009.00
		▪	1200 x 800 x 160	0481 114	1,604.00



0481 Base stand for surface plates and inspection



			Dimensions for surface plates mm	Ref. No.	List price Euro
For granite surface plates:					
			400 x 400	0481 160	317.00
			500 x 400	0481 161	328.00
		■	600 x 500	0481 162	346.00
		■	800 x 600	0481 165	369.00
		■	1000 x 600	0481 167	387.00
		■	1200 x 800	0481 170	439.00

0481 Cabinet for measuring and inspection plates



Specification

- Frame is made of angled steel and is completely panelled with steel
- Adjustable 3 point bearing fitting
- 2 adjustable screw for stability
- Lockable doors
- Drawers on roller bearings
- Shelves are removable
- Feet are adjustable to compensate for unevenness of the floor

			Specification	For plate sizes mm	Ref. No.	List price Euro
		■	1 door, 1 shelf	600 x 500	0481 184	1,027.00
		■	1 door, 1 shelf	800 x 600	0481 186	1,131.00
		■	2 doors, 1 drawer, 1 shelf	1000 x 600	0481 188	1,174.00
		■	2 doors, 1 drawer, 1 shelf	1200 x 800	0481 190	1,312.00

0544 Angle normal 90°, triangular



Specification

- Made of black granite
- From 600 x 400 mm with weight reducing holes

			Height mm	Width mm	Angular accuracy mm	Ref. No.	List price Euro
			200 x 150	40	0.002	0544 101	311.00
			300 x 200	50	0.002	0544 102	479.00
			400 x 250	60	0.003	0544 103	663.00
			500 x 300	60	0.003	0544 104	838.00
		■	600 x 400	70	0.004	0544 105	1,426.00
		■	800 x 500	90	0.004	0544 106	2,148.00
		■	1000 x 600	100	0.004	0544 107	4,098.00



0513 Sine bars

HP

DIN
2273



0513 001



0513 011

Specification

- Special steel, hardened
- DIN 2273

Shipment

- With sinus table
- Cardboard box

			Roller spacing mm	Length tolerance ± N/mm	Ref. No.	List price Euro
Without stop type B:						
▪			100	2	0513 001	61.00
			200	4	0513 002	79.00
With stop type A:						
			100	2	0513 011	135.00
			200	4	0513 012	170.00

0504 V-blocks (pair)

HP



Specification

- Special steel, hardened
- 90° grooves
- Machined in pairs

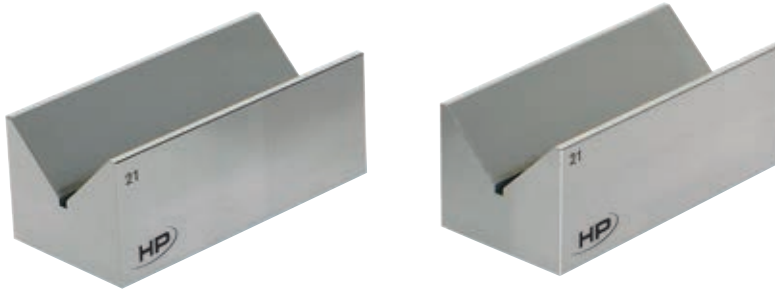
Shipment

- Packed in pairs
- Cardboard box

			Dimensions mm	For shafts dia. mm	Ref. No.	List price Euro
Grade 0, parallelism tolerance < 0.008 mm, V-grooves and base finely ground:						
			100 x 40 x 30	6 - 40	0504 012	84.00
			150 x 50 x 40	8 - 50	0504 013	130.00
			200 x 70 x 50	8 - 70	0504 014	200.00
Grade 1, parallelism tolerance < 0.016 mm, V-grooves and base ground:						
▪			100 x 40 x 30	6 - 40	0504 112	59.00
▪			150 x 50 x 40	8 - 50	0504 113	79.00
▪			200 x 70 x 50	8 - 70	0504 114	130.00
Grade 3, parallelism tolerance < 0.064 mm, V-grooves and base milled:						
▪			100 x 40 x 30	6 - 40	0504 312	40.90
▪			150 x 50 x 40	8 - 50	0504 313	60.00
▪			200 x 70 x 50	8 - 70	0504 314	99.00



0520 V-blocks (pair)



Specification

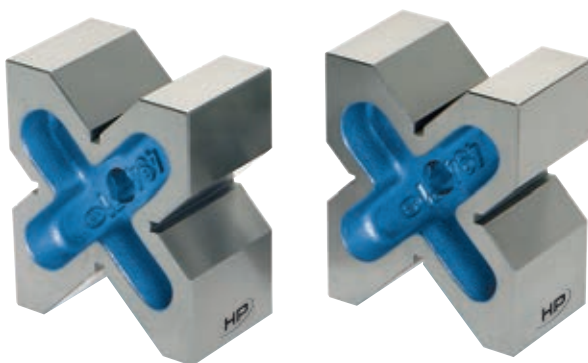
- Special steel, hardened
- Flatness, parallelism and right-angled tolerance is 0.004 mm
- 90° grooves, machined in pairs
- End face and base are angular

			Dimensions mm	For shafts dia. mm	Ref. No.	List price Euro
▪			75 x 35 x 30	5 - 40	0520 101	120.00
▪			100 x 47 x 40	5 - 55	0520 102	157.00
▪			150 x 55 x 45	5 - 60	0520 103	209.00
▪			200 x 65 x 55	5 - 75	0520 104	291.00
▪			250 x 85 x 70	5 - 100	0520 105	397.00

Shipment

- Packed in pairs
- Cardboard box

0508 Pair of X type V-blocks (parallel)



Specification

- Factory standard
- Special cast iron
- 4 x 90° grooves, different sizes

			Dimensions mm	For shafts dia. mm	Ref. No.	List price Euro
Grade 0, parallelism tolerance < 0.008 mm, V-grooves and base finely ground:						
▪			60 x 120 x 100	8 - 90	0508 011	223.00
▪			75 x 150 x 130	10 - 120	0508 012	323.00
▪		▪	90 x 200 x 170	12 - 180	0508 013	498.00
Grade 1, parallelism tolerance < 0.016 mm, V-grooves and base ground:						
▪			60 x 120 x 100	8 - 90	0508 111	186.00
▪			75 x 150 x 130	10 - 120	0508 112	264.00
▪		▪	90 x 200 x 170	12 - 180	0508 113	403.00

Shipment

- Packed in pairs
- Cardboard box



0522 Double V-blocks (pairs) with clamp



Specification

- Special steel, hardened
- Flatness, parallelism and right-angled tolerance is 0.004 mm
- 2 x 90° grooves
- Machined in pairs
- End face and base are angular

Shipment

- Packed in pairs
- Cardboard box

			Dimensions mm	For shafts dia. mm	Ref. No.	List price Euro
▪			50 x 40 x 40	5 - 30	0522 101	139.00
▪			75 x 55 x 55	5 - 50	0522 102	224.00
▪			100 x 75 x 75	7 - 70	0522 103	323.00

Clamp for double V-blocks (pairs)



Shipment

- Packed in pairs
- Cardboard box

			Length mm	Ref. No.	List price Euro
▪			50	0522 111	15.20
▪			75	0522 112	18.50
▪			100	0522 113	22.70

0524 Double V-blocks (pairs) with clamp lateral tilting



Specification

- Special steel, hardened
- Flatness, parallelism and right-angled tolerance is 0.004 mm
- 2 x 90° grooves
- Machined in pairs
- End face and base are angular

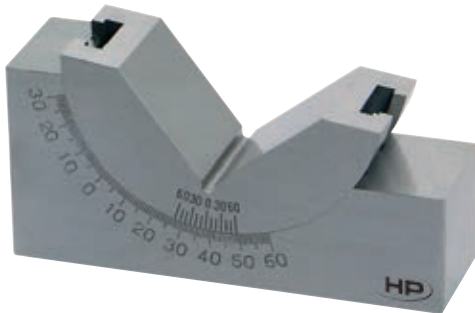
Shipment

- Packed in pairs
- Cardboard box

			Dimensions mm	For shafts dia. mm	Ref. No.	List price Euro
▪			60 x 58 x 40	5 - 30	0524 101	167.00
▪			75 x 70 x 54	5 - 30	0524 102	250.00
▪			100 x 96 x 75	7 - 70	0524 103	375.00



0525 Adjustable V-blocks 0-60°



Specification

- Special steel, hardened
- Locking device
- Nonius reading

Shipment

- Cardboard box

			Dimensions mm	For shafts dia. mm	Ref. No.	List price Euro
			75 x 25 x 33	28	0525 101	108.00
			102 x 30 x 46	40	0525 102	115.00
			102 x 46 x 46	40	0525 103	122.00

0527 Magnetic measuring and clamping prism



Specification

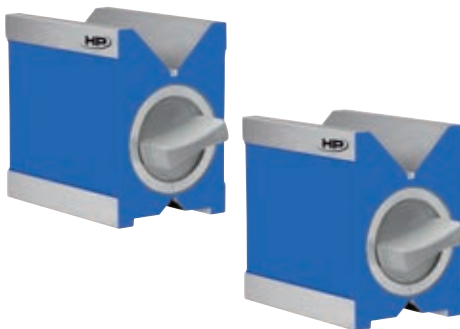
- Accuracy: 0.004 mm
- Magnet can be switched ON/OFF
- Magnetic force 600 N

Shipment

- Cardboard box

			Dimensions mm	For shafts dia. mm	Ref. No.	List price Euro
Special steel:						
			80 x 67 x 96	6 - 66	0527 101	305.00
			100 x 70 x 96	6 - 70	0527 102	423.00
Special steel, hardened:						
			80 x 67 x 96	6 - 66	0527 107	362.00
			100 x 70 x 96	6 - 70	0527 108	504.00

0527 Magnetic measuring and clamping prism (pairs)



Specification

- Milled in pairs

Shipment

- Packed in pairs
- Cardboard box

			Dimensions mm	For shafts dia. mm	Ref. No.	List price Euro
Special steel:						
			80 x 67 x 96	6 - 66	0527 104	600.00
			100 x 70 x 96	6 - 70	0527 105	838.00
Special steel, hardened:						
			80 x 67 x 96	6 - 66	0527 110	770.00
			100 x 70 x 96	6 - 70	0527 111	997.00



0536 Set of parallel blocks

HP



0536 202



0536 211

Specification

- Special steel, hardened

Shipment

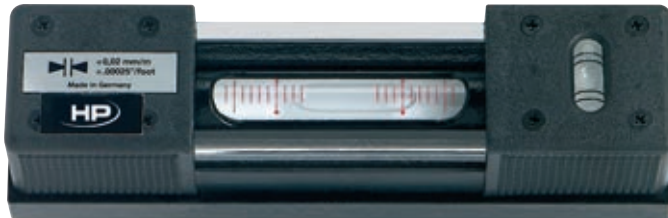
- Wooden case

			Measuring range mm	Accuracy mm	Height mm	Width mm	Ref. No.	List price Euro
Set consists of 9 pairs, length 100 mm:								
			10 - 42	0.01 / ± 0.005	10 / 14 / 18 / 22 / 26 / 30 / 34 / 38 / 42	4	0536 220	92.00
Set consists of 9 pairs, length 150 mm:								
			10 - 42	0.01 / ± 0.005	10 / 14 / 18 / 22 / 26 30 / 34 / 38 / 42	4	0536 230	126.00
Set consists of 12 pairs, length 120 mm:								
			14 - 40	0.01 / ± 0.005	14 / 16 / 18 / 20 22 / 24 / 26 / 28 30 / 32 / 35 / 40	10	0536 201	351.00
Set consists of 14 pairs, length 150 mm:								
			14 - 50	0.01 / ± 0.005	14 / 16 / 18 / 20 22 / 24 / 26 / 28 30 / 32 / 35 / 40 45 / 50	10	0536 202	393.00
Set consists of 20 pairs, length 100 mm:								
			2 - 24	0.01 / ± 0.005	5 / 10 / 15 / 20 6 / 11 / 16 / 21 7 / 12 / 17 / 22 8 / 13 / 18 / 23 9 / 14 / 19 / 24	2 3 4 5 6	0536 211	490.00
Set consists of 24 pairs, length 125 mm:								
			8 - 42	0.01 / ± 0.005	11 / 16 / 21 / 26 / 31 / 36 13 / 18 / 23 / 28 / 33 / 38 15 / 20 / 25 / 30 / 35 / 40 17 / 22 / 27 / 32 / 37 / 42	8 10 12 14	0536 212	579.00
Set consists of 24 pairs, length 150 mm:								
			8 - 42	0.01 / ± 0.005	11 / 16 / 21 / 26 / 31 / 36 13 / 18 / 23 / 28 / 33 / 38 15 / 20 / 25 / 30 / 35 / 40 17 / 22 / 27 / 32 / 37 / 42	8 10 12 14	0536 213	584.00



0550 Machine levels

HP



DIN
877

Specification

- DIN 877
- V-groove in the base
- Graduated longitudinal level has been ground
- Transverse level
- Thermally insulated

Shipment

- Wooden case

			Length mm	Ref. No.	List price Euro
Reading 0.02 mm/m:					
			160	0550 021	212.00
			200	0550 022	235.00
			250	0550 023	245.00
			300	0550 024	293.00
Reading 0.1 mm/m:					
▪			160	0550 101	127.00
▪			200	0550 102	157.00
			250	0550 103	166.00
			300	0550 104	188.00
Reading 0.3 mm/m:					
▪			160	0550 131	115.00
▪			200	0550 132	137.00
			250	0550 133	150.00
			300	0550 134	171.00

0551 Crankpin levels

HP



DIN
877

Specification

- DIN 877
- With a longitudinal and a transverse level
- Graduated longitudinal level and transverse levels have both been ground

Shipment

- Wooden case

			Length mm	Ref. No.	List price Euro
Reading 0.04 mm/m:					
			90	0551 002	250.00
			120	0551 003	290.00
Reading 0.1 mm/m:					
			90	0551 012	152.00
			120	0551 013	171.00
Reading 0.2 mm/m:					
			60	0551 021	145.00



0556 Frame levels

HP

DIN
877



Specification

- DIN 877
- V-grooves on 3 sides
- Graduated longitudinal level has been ground
- Transverse level
- Thermally insulated

Shipment

- Wooden case

			Dimensions mm	Ref. No.	List price Euro
Reading 0.02 mm/m:					
			150 x 150	0556 022	398.00
			200 x 200	0556 023	449.00
			300 x 300	0556 024	643.00
Reading 0.1 mm/m:					
▪			100 x 100	0556 101	246.00
▪			150 x 150	0556 102	287.00
▪			200 x 200	0556 103	351.00
			300 x 300	0556 104	574.00
Reading 0.3 mm/m:					
▪			100 x 100	0556 131	200.00
▪			150 x 150	0556 132	246.00
▪			200 x 200	0556 133	293.00
			300 x 300	0556 134	461.00

0560 Protractor level

HP



Specification

- Made of special steel
- With degree scale
- Flat base
- 1° to 0-90°
- Ideal for levelling, determining centre points and adjusting angles

Shipment

- Wooden case

			Dimensions mm	Ref. No.	List price Euro
Reading 0.4 mm/m:					
			200 x 200	0560 001	275.00

0563 Magnetic angle gauge

HP



Specification

- Centre punch
- Dial face 360°
- Magnetic 90° splayed base

Shipment

- Cardboard box

			Ref. No.	List price Euro
			0563 001	374.00



0580 Combined lathe and thread cutting gauge

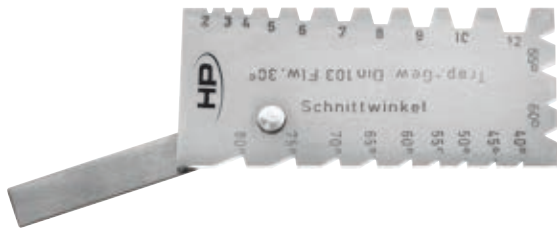


Specification

- Special steel
- Cuts for trapezoidal (Acme), Whitworth and metric threads
- For angles from 40-80°

			Dimensions mm	Thickness mm	Ref. No.	List price Euro
▪			90 x 40	2	0580 101	5.70

0580 Combined lathe and thread cutting gauge



Specification

- Special steel
- Cuts for trapezoidal (Acme), Whitworth and metric threads
- With clearance angle
- For angles from 40-80°
- For angles from 0-30°

			Dimensions mm	Thickness mm	Ref. No.	List price Euro
▪			90 x 40	2	0580 111	7.70

0580 Combined lathe and thread cutting gauge

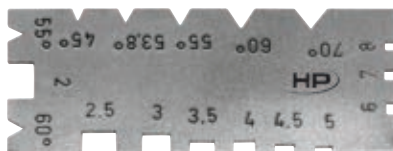


Specification

- Special steel
- For square threads and trapezoidal threads
- V-threads 55° and 60°

			Dimensions mm	Thickness mm	Ref. No.	List price Euro
▪			90 x 40	2	0580 121	5.70

0580 Universal thread cutting gauge



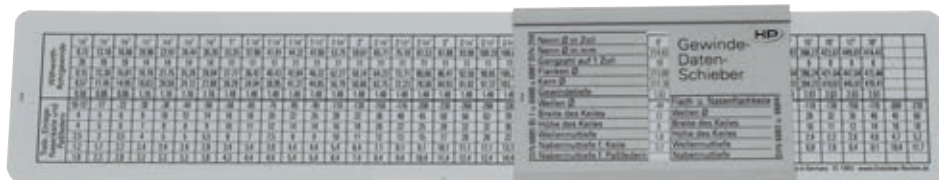
Specification

- Special steel
- For V-threads and square threads

			Dimensions mm	Thickness mm	Ref. No.	List price Euro
▪			90 x 40	2	0580 151	2.20



0581 DIN thread conversion and fit slide rules



0581 101

Specification

- For reading the most important theoretical dimensions of thread tolerance



0581 123

			Ref. No.	List price Euro
Aluminium anodized:				
▪		Fine thread slide rule	0581 101	19.30
▪		DIN thread slide rule	0581 103	12.60
▪		DIN fit slide rule	0581 105	15.40
Plastic				
▪		DIN thread slide rule	0581 123	9.40
▪		DIN fit slide rule	0581 125	8.30

0582 ISO thread converter - Filetor



Specification

- For direct reading of all standard information for determining of threads
- Plastic housing

		Dimensions mm	Ref. No.	List price Euro
▪		60 x 30 x 110	0582 110	44.70

0582 ISO tolerance indicator - Tolerator



Specification

- For direct reading of all ISO-tolerance values
- Plastic housing

		Dimensions mm	Ref. No.	List price Euro
▪		60 x 30 x 110	0582 120	44.70



0582 mm/inch converter

HP



Specification

- Direct reading of inch to millimeter conversion
- Plastic housing

			Dimensions mm	Ref. No.	List price Euro
▪			60 x 30 x 110	0582 130	44.70

0589 Profile gauge

HP



Specification

- Spring pins
- Pin-Ø 1.0 mm

			Measuring range mm	Dimensions mm	Ref. No.	List price Euro
▪			150 x 40	154 x 85	0589 101	15.20
▪			300 x 60	350 x 150	0589 103	46.30

0590 Twist drill grinding gauge

HP



Specification

- Special steel
- For twist drills
- Acute angle of 118°

			Measuring range max. dia. mm	Ref. No.	List price Euro
▪			50	0590 101	1.60

0590 Twist drill grinding and inspection gauge

HP



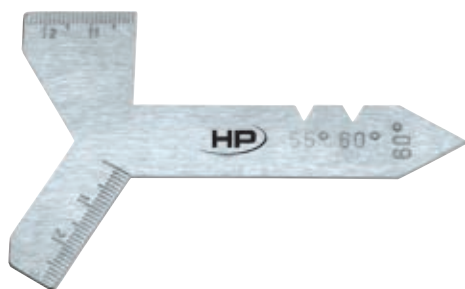
Specification

- Special steel
- Measure the length of the cutting edge and the cutting angle of 118°
- Locking screw

			Measuring range mm	Dimensions mm	Ref. No.	List price Euro
▪			50	0.1	0590 111	58.00



0590 Universal grinding gauge

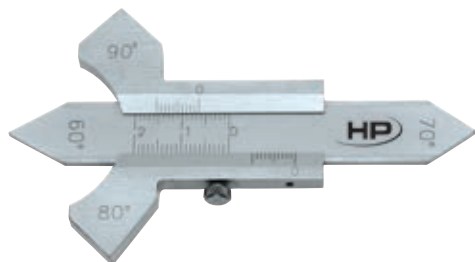


Specification

- Special steel
- Scales in mm graduation
- Angles 120°, 118°, 90°, 60° and 55°

			Dimensions mm	Thickness mm	Ref. No.	List price Euro
▪			95 x 63	2	0590 151	3.10

0595 Welding gauge

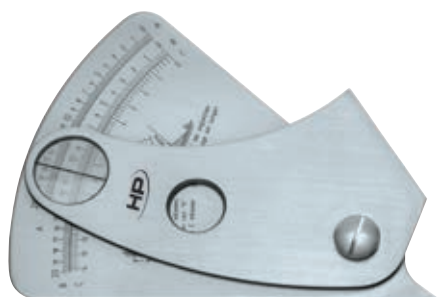


Specification

- Special steel
- Locking screw
- To measure flat / flush weldings
- V-joint 60°, 70°, 80° and 90°

			Measuring range mm	Reading mm	Ref. No.	List price Euro
▪			20	0.1	0595 101	18.50

0595 DBP weld seam gauge



Specification

- Stainless steel
- Reading accuracy 0.1 mm
- Easy to read the result due to the reference line in the reading window
- Quick and easy inspection of a welding seam dimension

			Dimensions mm	Thickness mm	Ref. No.	List price Euro
▪			108 x 81.5	3.2	0595 251	82.00

0597 Chamfer gauge



Specification

- Factory standard
- For simultaneously testing of the chamfer angle and the dimensional accuracy
- Stainless steel
- Reading 0.1 mm
- Reading parts are satin chrome finished
- 3 interchangeable blades: 30°, 45°, 60°
- Dimensions: 48x30x8.5 mm

Shipment

- Wooden case

			Measuring range mm	Reading mm	Ref. No.	List price Euro
▪			10	0.1	0597 301	157.00



0597 Radius gauge



Specification

- To determine radii size workpieces
- Stainless steel
- Reading parts are satin chrome finished

Shipment

- Wooden case

			Measuring range mm	Reading mm	Ref. No.	List price Euro
▪			10	0.1	0597 305	157.00

0598 Tapered hole gauges



0598 101

Specification

- Special steel, hardened
- Reading parts matted

			Measuring range mm	Reading mm	Ref. No.	List price Euro
Special steel:						
▪			0.5 - 11.0	0.1	0598 101	36.60
▪			0.5 - 7.0	0.1	0598 103	46.30
▪			2.0 - 7.0	0.1	0598 105	44.20
Plastic:						
▪			0.5 - 10.0	0.1	0598 601	47.30

0599 Nozzle / small hole gauges



Specification

- Special steel
- Reading 0,1 mm
- Cone 1:10
- Nickel plated housing

			Measuring range mm	Ref. No.	List price Euro
▪			0 - 3	0599 101	39.40
▪			0 - 5	0599 102	53.00

0599 Nozzle gauges



Specification

- Steel pins
- Plastic handle
- Manufacturing tolerance ± 0.01 mm

			Measuring range mm	Pins	Ref. No.	List price Euro
▪			0.45 - 1.50	20	0599 151	6.30
▪			1.50 - 3.00	16	0599 152	6.30



0600 Tapered hole gauges



0600 101

Specification

- Reading 0.1 mm



0600 111

			Measuring range mm	Ref. No.	List price Euro
Special steel, flat:					
▪			1 - 15	0600 101	23.20
▪			15 - 30	0600 102	29.00
▪			30 - 45	0600 103	31.10
Hardened stainless steel, round, knurled handle:					
▪			1 - 6	0600 111	49.40
▪			4 - 15	0600 112	65.00
▪			15 - 30	0600 113	137.00
▪			30 - 45	0600 114	212.00
▪			45 - 60	0600 115	341.00

0601 Drill and steel wire hole gauges (millimeter)



Specification

- Special steel, nitrided
- Additional specifications are available upon request

			Measuring range mm	Increments mm	Ref. No.	List price Euro
▪			0.1 - 10.0	0.1	0601 103	73.00
▪			3.0 - 10.0	0.1	0601 120	62.00

0604 Radius gauges



Specification

- Concave and convex
- Locking nut
- Milled finish

			Measuring range mm	No. of sheets mm	Ref. No.	List price Euro
Special steel						
▪			1.0 - 7.0	17	0604 002	6.10
▪			7.5 - 15.0	16	0604 004	6.70
▪			15.5 - 25.0	15	0604 006	6.70
Stainless steel						
▪			1.0 - 7.0	17	0604 202	8.10
▪			7.5 - 15.0	16	0604 204	10.00
▪			15.5 - 25.0	15	0604 206	10.00



0604 Precision individual radius gauges



Specification

- Factory standard
- Made of steel
- Not hardened
- Fine ground
- For internal and external radii

- Custom sizes are available upon request

			Radius mm	Ref. No.	List price Euro
			0.5	0604 013	40.60
			0.6	0604 014	40.60
			0.7	0604 015	40.60
			0.8	0604 016	40.60
			0.9	0604 017	40.60
			1.0	0604 018	30.90
			1.5	0604 019	30.90
			2.0	0604 020	30.90
			2.5	0604 021	30.90
			3.0	0604 022	30.90
			3.5	0604 023	30.90
			4.0	0604 024	30.90
			4.5	0604 025	30.90
			5.0	0604 026	30.90
			5.5	0604 027	30.90
			6.0	0604 028	30.90
			6.5	0604 029	30.90
			7.0	0604 030	30.90
			7.5	0604 031	30.90
			8.0	0604 032	30.90
			8.5	0604 033	30.90
			9.0	0604 034	30.90
			9.5	0604 035	30.90
			10.0	0604 036	30.90
			10.5	0604 037	32.50
			11.0	0604 038	32.50
			11.5	0604 039	32.50
			12.0	0604 040	32.50
			12.5	0604 041	32.50
			13.0	0604 042	32.50
			13.5	0604 043	32.50
			14.0	0604 044	32.50
			14.5	0604 045	32.50
			15.0	0604 046	32.50
			15.5	0604 047	34.20
			16.0	0604 048	34.20
			16.5	0604 049	34.20

			Radius mm	Ref. No.	List price Euro
			17.0	0604 050	34.20
			17.5	0604 051	34.20
			18.0	0604 052	34.20
			18.5	0604 053	34.20
			19.0	0604 054	34.20
			19.5	0604 055	34.20
			20.0	0604 056	34.20
			21.0	0604 057	35.70
			22.0	0604 058	35.70
			23.0	0604 059	35.70
			24.0	0604 060	35.70
			25.0	0604 061	35.70
			26.0	0604 062	35.70
			27.0	0604 063	35.70
			28.0	0604 064	35.70
			29.0	0604 065	35.70
			30.0	0604 066	35.70
			31.0	0604 067	38.90
			32.0	0604 068	38.90
			33.0	0604 069	38.90
			34.0	0604 070	38.90
			35.0	0604 071	38.90
			36.0	0604 072	38.90
			37.0	0604 073	38.90
			38.0	0604 074	38.90
			39.0	0604 075	38.90
			40.0	0604 076	38.90
			41.0	0604 077	47.10
			42.0	0604 078	47.10
			43.0	0604 079	47.10
			44.0	0604 080	47.10
			45.0	0604 081	47.10
			46.0	0604 082	47.10
			47.0	0604 083	47.10
			48.0	0604 084	47.10
			49.0	0604 085	47.10
			50.0	0604 086	47.10
			55.0	0604 087	51.00
			60.0	0604 088	53.00
			65.0	0604 089	56.00
			70.0	0604 090	64.00
			75.0	0604 091	64.00
			80.0	0604 092	64.00
			85.0	0604 093	64.00
			90.0	0604 094	64.00
			95.0	0604 095	64.00
			100.0	0604 096	64.00



0605 Screw pitch gauges



				Measuring range mm	No. of blades mm	Ref. No.	List price Euro
▪			Metric threads according to ISO	0.25 - 6.00	24	0605 101	2.20
▪			Whitworth threads according to DIN	4 - 62	28	0605 103	2.00
▪			Whitworth pipe threads	8 - 28	6	0605 104	2.00
▪			Combined metric and Whitworth	0.25 - 6.00 / 4 - 62	52	0605 106	3.30
▪			Metric Whitworth and pipe threads	0.25 - 6.00 / 4 - 62 / 8 - 28	58	0605 107	4.60
▪			Combined metric threads according to SI System	0.4 - 7.0	20	0605 102	2.00
▪			Combined metric SI and Whitworth threads	0.4 - 7.0 / 4 - 62	48	0605 105	3.10
▪			US - threads	4 - 42	30	0605 108	2.70
▪			US - threads SAE	10 - 40	14	0605 109	2.90
▪			UNC - threads	4 - 64	22	0605 110	2.70
▪			UNF - threads	12 - 80	16	0605 111	2.70
▪			BSF - threads	4 - 26	20	0605 112	3.10

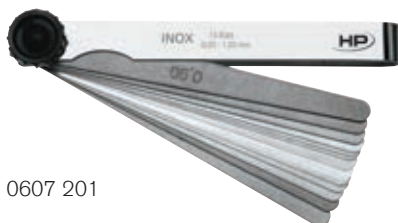
0606 Feeler gauges



0606 130

Specification

- Conical blades
- Width 10 mm
- Blade length 100 mm
- Locking nut



0607 201



0607 401

			Measuring range mm	No. of blades mm	Ref. No.	List price Euro
Spring band steel:						
▪			0.03 - 0.10	8	0606 121	1.40
▪			0.05 - 0.50	8	0606 123	1.40
▪			0.05 - 1.00	13	0606 127	1.40
▪			0.05 - 1.00	20	0606 130	2.20
▪			0.05 - 2.00	21	0606 133	5.50
▪			0.10 - 2.00	20	0606 131	2.70
▪			0.10 - 0.50	21	0606 132	5.10
▪			0.03 - 1.00	32	0606 136	4.60
Spring band stainless steel:						
▪			0.05 - 0.50	8	0607 201	3.50
▪			0.05 - 1.00	13	0607 202	5.50
▪			0.05 - 1.00	20	0607 203	7.90
Brass (anti magnetic):						
▪			0.05 - 0.50	8	0607 401	5.90
▪			0.05 - 1.00	13	0607 402	7.30
▪			0.05 - 1.00	20	0607 403	10.40



0611 Feeler gauge tapes



Specification

- Hardened carbon steel
- Width 13 mm
- Length 5 m

Shipment

- Plastic dispenser case

			Thickness mm	Ref. No.	List price Euro
▪			0.005	0611 300	67.00
▪			0.01	0611 501	26.50
▪			0.02	0611 502	22.00
▪			0.03	0611 503	7.60
▪			0.04	0611 504	7.60
▪			0.05	0611 505	5.80
▪			0.06	0611 506	6.00
▪			0.07	0611 507	6.00
▪			0.08	0611 508	6.00
▪			0.09	0611 509	6.00
▪			0.10	0611 510	5.10
▪			0.12	0611 512	5.10
▪			0.15	0611 515	5.10
▪			0.18	0611 518	6.70
▪			0.20	0611 520	5.10
▪			0.25	0611 525	5.10

			Thickness mm	Ref. No.	List price Euro
▪			0.30	0611 530	5.10
▪			0.35	0611 535	5.10
▪			0.40	0611 540	6.00
▪			0.45	0611 545	6.00
▪			0.50	0611 550	6.00
▪			0.55	0611 552	7.60
▪			0.60	0611 554	7.60
▪			0.65	0611 556	7.60
▪			0.70	0611 558	7.60
▪			0.75	0611 560	7.60
▪			0.80	0611 562	7.60
▪			0.85	0611 564	7.80
▪			0.90	0611 566	8.20
▪			0.95	0611 568	8.20
▪			1.00	0611 570	8.20

0611 Holder for feeler gauge tape



Specification

- Dimension 125 x 17 mm

			Ref. No.	List price Euro
▪			0611 195	2.30

0611 Wall holder for feeler gauge tape set



Specification

- 15 piece feeler gauge tape set
- Wall holder made of steel, lacquered
- With size labels

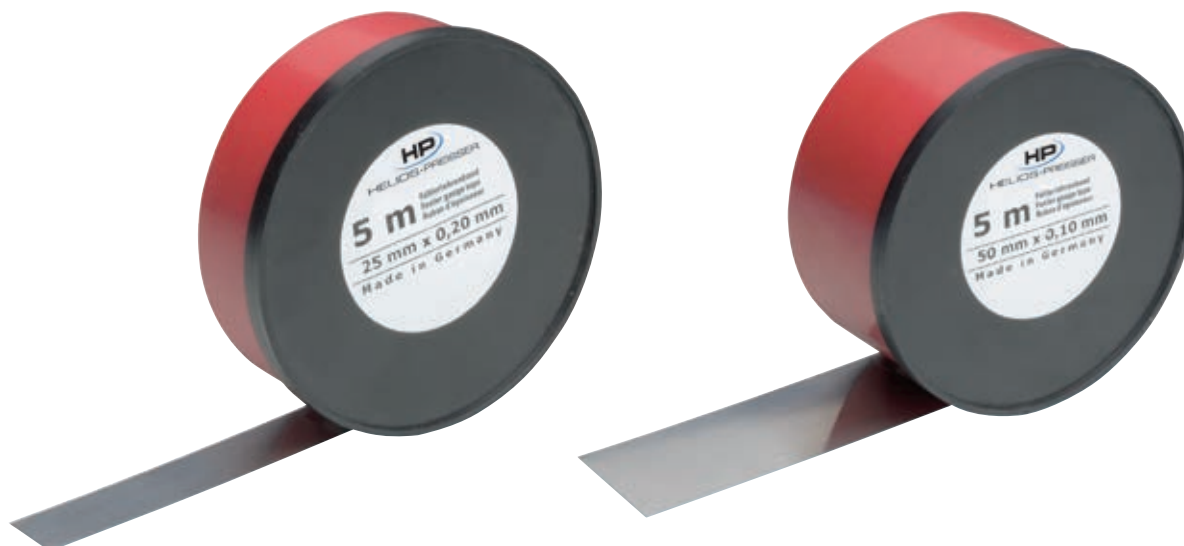
Shipment

- Holder and mounting fittings

			Dimensions mm	Graduation mm	Ref. No.	List price Euro
▪			330 x 100 x 110	0.01 - 0.25	0611 180	130.00
▪			330 x 210 x 220	0.30 - 1.00	0611 190	170.00



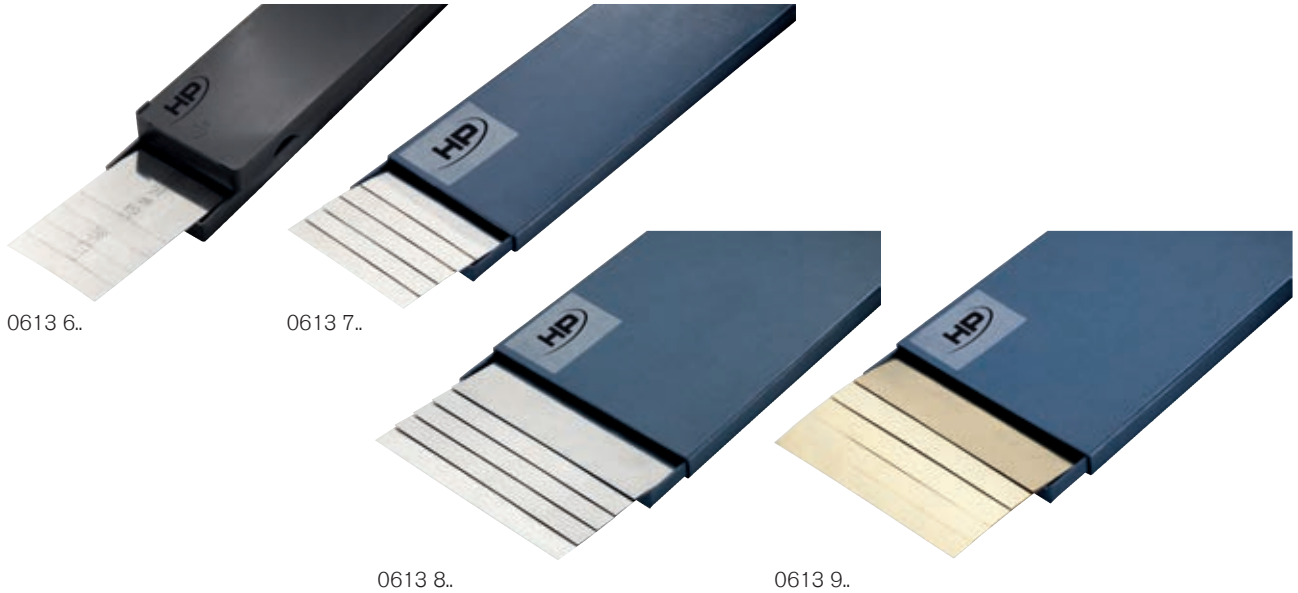
0613 Precision feeler gauge tapes



Thickness mm	Carbon steel, Width 25 mm Length 5 m		Carbon steel, Width 50 mm Length 5 m		Stainless steel, Width 100 mm Length 5 m		Stainless steel, Width 150 mm Length 5 m		Brass, Width 150 mm Length 5 m	
	Ref. No.	List price Euro	Ref. No.	List price Euro	Ref. No.	List price Euro	Ref. No.	List price Euro	Ref. No.	List price Euro
0.01	0613 107	61.00	0613 207	87.00						
0.02	0613 109	32.90	0613 209	47.30	0613 309	85.00				
0.025							0613 412	96.00	0613 512	95.00
0.03	0613 114	23.20	0613 214	33.30						
0.04	0613 116	23.20	0613 216	33.30						
0.05	0613 118	23.20	0613 218	33.30	0613 318	51.00	0613 418	78.00	0613 518	77.00
0.06	0613 120	15.80	0613 220	22.70						
0.07	0613 122	15.80	0613 222	22.70						
0.075							0613 424	78.00	0613 524	77.00
0.08	0613 126	15.80	0613 226	22.70						
0.09	0613 128	15.80	0613 228	22.70						
0.10	0613 130	16.30	0613 230	23.60	0613 330	48.00	0613 430	74.00	0613 530	73.00
0.12			0613 232	23.60						
0.15	0613 134	16.30	0613 234	23.60	0613 334	48.00	0613 434	74.00	0613 534	73.00
0.18			0613 236	23.60						
0.20	0613 138	16.30	0613 238	23.60	0613 338	61.00	0613 438	92.00	0613 538	90.00
0.25			0613 240	23.60			0613 440	92.00	0613 540	90.00
0.30	0613 142	16.30	0613 242	23.60	0613 342	61.00	0613 442	92.00	0613 542	90.00
0.35			0613 244	25.80						
0.40	0613 146	18.20	0613 246	25.80	0613 346	69.00	0613 446	102.00	0613 546	101.00
0.45			0613 248	25.80						
0.50	0613 150	18.20	0613 250	25.80	0613 350	79.00	0613 450	120.00	0613 550	119.00
0.60	0613 152	29.00	0613 252	41.90	0613 352	94.00				
0.70	0613 154	29.00	0613 254	41.90	0613 354	94.00				
0.80	0613 156	29.00	0613 256	41.90	0613 356	113.00				
0.90	0613 158	29.00	0613 258	41.90	0613 358	113.00				
1.00	0613 160	29.00	0613 260	41.90	0613 360	129.00				



0613 Precision reference sheets



Thickness mm	Carbon steel, 50 x 300 mm 10 pieces		Stainless steel, 100 x 500 mm 5 pieces		Stainless steel, 150 x 500 mm 5 pieces		Brass, 150 x 500 mm 5 pieces	
	Ref. No.	List price Euro	Ref. No.	List price Euro	Ref. No.	List price Euro	Ref. No.	List price Euro
0.01	0613 607	61.00						
0.02	0613 609	32.90	0613 709	45.40				
0.025					0613 812	51.00	0613 912	51.00
0.03	0613 614	23.20						
0.04	0613 616	23.20						
0.05	0613 618	23.20	0613 718	27.50	0613 818	40.90	0613 918	40.40
0.06	0613 620	15.80						
0.07	0613 622	15.80						
0.075					0613 824	40.90	0613 924	40.40
0.08	0613 626	15.80						
0.09	0613 628	15.80						
0.10	0613 630	16.30	0613 730	25.80	0613 830	38.70	0613 930	38.40
0.12	0613 632	16.30						
0.15	0613 634	16.30	0613 734	25.80	0613 834	38.70	0613 934	38.40
0.18	0613 636	16.30						
0.20	0613 638	16.30	0613 738	32.50	0613 838	48.40	0613 938	48.00
0.25	0613 640	16.30			0613 840	48.40	0613 940	48.00
0.30	0613 642	16.30	0613 742	32.50	0613 842	48.40	0613 942	48.00
0.35	0613 644	18.20						
0.40	0613 646	18.20	0613 746	36.60	0613 846	56.00	0613 946	56.00
0.45	0613 648	18.20						
0.50	0613 650	18.20	0613 750	41.90	0613 850	65.00	0613 950	64.00
0.60	0613 652	29.00	0613 752	51.00				
0.70	0613 654	29.00	0613 754	51.00				
0.80	0613 656	29.00	0613 756	61.00				
0.90	0613 658	29.00	0613 758	61.00				
1.00	0613 660	29.00	0613 760	67.00	0613 860	106.00		



0627 / 0628 Individual steel gauge blocks

HP



Specification

- EN ISO 3650
- Special steel, hardened

			Dimensions mm	Accuracy Tol. class	Ref. No.	List price Euro
			1.0	1	0627 119	32.50
			2.0	1	0627 174	26.00
			3.0	1	0627 176	25.80
			4.0	1	0627 178	25.80
			5.0	1	0627 180	25.80
			6.0	1	0627 182	25.80
			7.0	1	0627 184	25.80
			8.0	1	0627 186	25.80
			9.0	1	0627 188	25.80
			10.0	1	0627 190	25.80
			20.0	1	0627 210	29.20
			25.0	1	0627 220	29.20
			30.0	1	0627 221	35.00
			40.0	1	0627 222	35.00
			50.0	1	0627 223	35.00
			75.0	1	0627 226	38.90
			100.0	1	0627 229	53.00
			125.0	1	0627 230	161.00
			150.0	1	0627 231	161.00
			175.0	1	0627 232	161.00
			200.0	1	0627 233	161.00
			300.0	1	0627 235	238.00
			400.0	1	0627 236	297.00
			500.0	1	0627 237	441.00
			600.0	1	0627 238	807.00
			700.0	1	0627 239	954.00
			800.0	1	0627 241	1,096.00
			900.0	1	0627 242	1,295.00
			1000.0	1	0627 243	1,511.00

			Dimensions mm	Accuracy Tol. class	Ref. No.	List price Euro
			1.0	2	0628 119	21.70
			2.0	2	0628 174	17.30
			3.0	2	0628 176	19.90
			4.0	2	0628 178	19.90
			5.0	2	0628 180	19.90
			6.0	2	0628 182	19.90
			7.0	2	0628 184	19.90
			8.0	2	0628 186	19.90
			9.0	2	0628 188	19.90
			10.0	2	0628 190	23.80
			20.0	2	0628 210	23.80
			25.0	2	0628 220	23.80
			30.0	2	0628 221	28.60
			40.0	2	0628 222	28.60
			50.0	2	0628 223	28.60
			75.0	2	0628 226	30.70
			100.0	2	0628 229	38.20
			125.0	2	0628 230	134.00
			150.0	2	0628 231	134.00
			175.0	2	0628 232	134.00
			200.0	2	0628 233	134.00
			300.0	2	0628 235	206.00
			400.0	2	0628 236	238.00
			500.0	2	0628 237	303.00
			600.0	2	0628 238	389.00
			700.0	2	0628 239	470.00
			800.0	2	0628 241	583.00
			900.0	2	0628 242	700.00
			1000.0	2	0628 243	871.00



0633 Parallel steel gauge block sets



Specification

- Special steel, hardened
- EN ISO 3650

Shipment

- Wooden case

			Pieces per set	Nominal dimensions mm	Increments	Ref. No.	List price Euro
Tolerance class 0:							
			103	1.005		0633 014	798.00
				1.01 - 1.49	0.010		
				0.5 - 24.5	0.500		
				25.0 - 100.0	25.000		
			87	1.001 - 1.009	0.001	0633 016	729.00
				1.01 - 1.49	0.010		
				0.5 - 9.5	0.500		
				10.0 - 100.0	10.000		
			47	1.005		0633 018	474.00
				1.01 - 1.09	0.010		
				1.11 - 1.19	0.010		
				1.1 - 1.9	0.100		
				1.0 - 9.0	1.000		
			32	10.0 - 100	10.000	0633 020	346.00
				1.005			
				1.01 - 1.09	0.010		
				1.1 - 1.9	0.100		
				1.0 - 9.0	1.000		
				10.0 - 30.0	10.000		
				50			
Tolerance class 1:							
▪			103	1.005		0633 114	613.00
				1.01 - 1.49	0.010		
				0.5 - 24.5	0.500		
				25.0 - 100.0	25.000		
▪			87	1.001 - 1.009	0.001	0633 116	467.00
				1.01 - 1.49	0.010		
				0.5 - 9.5	0.500		
				10.0 - 100.0	10.000		
▪			47	1.005		0633 118	289.00
				1.01 - 1.09	0.010		
				1.11 - 1.19	0.010		
				1.1 - 1.9	0.100		
				1.0 - 9.0	1.000		
▪			32	10.0 - 100	10.000	0633 120	211.00
				1.005			
				1.01 - 1.09	0.010		
				1.1 - 1.9	0.100		
				1.0 - 9.0	1.000		
				10.0 - 30.0	10.000		
				50			



0633 Parallel steel gauge block sets



			Pieces per set	Nominal dimensions mm	Increments	Ref. No.	List price Euro
Tolerance class 2:							
▪			103	1.005		0633 214	388.00
				1.01 - 1.49	0.010		
				0.5 - 24.5	0.500		
				25.0 - 100.0	25.000		
▪			87	1.001 - 1.009	0.001	0633 216	306.00
				1.01 - 1.49	0.010		
				0.5 - 9.5	0.500		
				10.0 - 100.0	10.000		
▪			47	1.005		0633 218	210.00
				1.01 - 1.09	0.010		
				1.11 - 1.19	0.010		
				1.1 - 1.9	0.100		
				1.0 - 9.0	1.000		
▪			32	10.0 - 100	10.000	0633 220	138.00
				1.005			
				1.01 - 1.09	0.010		
				1.1 - 1.9	0.100		
				1.0 - 9.0	1.000		
				10.0 - 30.0	10.000		
				50			

0633 Gauge block accessories sets



0633131

Shipment

- Wooden case

No. of parts	Gauge block holder (mm)					Radiused measuring jaw pairs (mm)						Scriber	Centre point	Plane parallel jaws (pair)	Knife edge jaws (pair)	Holder base	Ref. No.	List price Euro
	0-50	0-100	100-200	0-300	200-400	300-500	4	10	16	20	30	40						
4				•		•						•					0633 130	1,034.00
10	•	•	•				•	•				•	•			•	0633 131	1,200.00
14	•	•	•				•	•	•	•		•	•			•	0633 132	1,553.00
23	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	0633 133	3,067.00



0633 Gauge block holders with rapid adjustment

HP



			For meas. range mm	Ref. No.	List price Euro
			0 - 50	0633 136	144.00
			0 - 100	0633 137	163.00
			0 - 200	0633 138	194.00
			100 - 200	0633 139	177.00
			100 - 300	0633 140	211.00
			200 - 400	0633 141	244.00
			300 - 500	0633 142	277.00
			400 - 600	0633 143	300.00
			500 - 800	0633 144	350.00
			800 - 1000	0633 145	489.00

0633 Radiused measuring jaws with cylindrical shoulders / pair

HP



			Nominal dimension mm	Measuring depth mm	Ref. No.	List price Euro
			4	8	0633 150	165.00
			10	15	0633 151	165.00
			16	20	0633 152	180.00
			20	40	0633 153	220.00
			30	65	0633 154	310.00
			40	95	0633 155	402.00

0633 Inspection points, pair

HP



Specification

- Special steel, hardened

			Dimensions L x W x H mm	Ref. No.	List price Euro
			55 x 9 x 9	0633 170	174.00

0633 Scribes

HP



Specification

- Special steel, hardened or carbide

			Dimensions L x W x H mm	Ref. No.	List price Euro
Special steel:					
			55 x 9 x 8	0633 171	72.00
Carbide:					
			55 x 9 x 8	0633 172	293.00

0633 Centre point

HP



Specification

- Special steel, hardened

			Dimensions L x W x H mm	Ref. No.	List price Euro
			55 x 9 x 12	0633 173	95.00



0633 Plane / parallel jaws, pair



Specification

- Special steel, hardened

			Dimensions L x W x H mm	Ref. No.	List price Euro
For external measurements:					
			100 x 9 x 20	0633 174	163.00
			125 x 9 x 20	0633 175	191.00
For internal and external measurements:					
			100 x 9 x 20	0633 176	301.00
			125 x 9 x 20	0633 177	356.00

0633 Knife edge jaws, pair



Specification

- Special steel, hardened

			Total length mm	Max. measured dia. mm	Ref. No.	List price Euro
			55	26	0633 178	174.00
			65	50	0633 179	221.00
			90	100	0633 180	264.00
			140	200	0633 181	393.00

0633 Stand for gauge block holder



Specification

- Special steel, hardened

			Dimensions L x W x H	Ref. No.	List price Euro
			103 x 70 x 27	0633 182	128.00

0633 Gauge block maintenance set



Set consists of:

- Linen cloth
- Chamois leather
- 1 jar of anti corrosion oil
- Oil stone
- Fine paint brush
- Broad paint brush
- User manual

Shipment

- Wooden case

			Ref. No.	List price Euro
			0633 001	282.00



0633 Steel gauge block inspection sets for micrometers



Specification

- EN ISO 3650
- Special steel, hardened
- Tolerance class 1

Shipment

- Wooden case

			Nominal dimensions mm	Ref. No.	List price Euro
5 pieces with optical flat:			5.1 - 10.3 - 15.0 - 20.2 - 25.0	0633 805	304.00
8 pieces with optical flat:			5.1 - 10.3 - 15.0 - 20.2 - 25.0 - 50.0 - 75.0 - 100.0	0633 808	407.00
10 pieces, excludes the optical flat:			2.5 - 5.1 - 7.7 - 10.3 - 12.9 - 15.0 - 17.6 - 20.2 - 22.8 - 25.0	0633 810	247.00

0634 Steel gauge block inspection set for calipers



Specification

- EN ISO 3650
- Special steel, hardened
- Tolerance class 1
- Supplied with:
setting rings 4 mm and
25 mm

Shipment

- Wooden case

			Nominal dimensions mm	For calipers with a measuring range up to mm	Ref. No.	List price Euro
3 pieces:			30.0 - 41.3 - 131.4	200	0633 833	505.00
4 pieces:			30.0 - 41.3 - 131.4 - 243.5	300	0633 834	674.00
6 pieces:			30.0 - 41.3 - 131.4 - 243.5 - 281.5 - 481.1	500	0633 836	1,204.00



0634 Carbide gauge block sets






Specification

- Carbide
- EN ISO 3650

Shipment

- Wooden case

			Pieces per set	Nominal dimensions mm	Increments	Ref. No.	List price Euro
Tolerance class 0:							
▪			103	1.005		0634 014	4,105.00
				1.01 - 1.49	0.010		
				0.5 - 24.5	0.500		
				25.0 - 100.0	25.000		
▪			87	1.001 - 1.009	0.001	0634 016	3,382.00
				1.01 - 1.49	0.010		
				0.5 - 9.5	0.500		
				10.0 - 100.0	10.000		
▪			47	1.005		0634 017	2,210.00
				1.01 - 1.09	0.010		
				1.11 - 1.19	0.010		
				1.1 - 1.9	0.100		
				1.0 - 9.0	1.000		
				10.0 - 100	10.000		
▪			32	1.005		0634 020	1,160.00
				1.01 - 1.09	0.010		
				1.1 - 1.9	0.100		
				1.0 - 9.0	1.000		
				10.0 - 30.0	10.000		
				50			
Tolerance class 1:							
▪			103	1.005		0634 114	3,613.00
				1.01 - 1.49	0.010		
				0.5 - 24.5	0.500		
				25.0 - 100.0	25.000		
▪			87	1.001 - 1.009	0.001	0634 116	2,953.00
				1.01 - 1.49	0.010		
				0.5 - 9.5	0.500		
				10.0 - 100.0	10.000		
▪			47	1.005		0634 117	1,981.00
				1.01 - 1.09	0.010		
				1.11 - 1.19	0.010		
				1.1 - 1.9	0.100		
				1.0 - 9.0	1.000		
				10.0 - 100	10.000		
▪			32	1.005		0634 120	1,008.00
				1.01 - 1.09	0.010		
				1.1 - 1.9	0.100		
				1.0 - 9.0	1.000		
				10.0 - 30.0	10.000		
				50			



0634 Ceramic gauge block sets



Specification

- Ceramic
- EN ISO 3650

Shipment

- Wooden case

			Pieces per set	Nominal dimensions mm	Increments	Ref. No.	List price Euro
Tolerance class 0:							
▪			103	1.005		0634 514	5,732.00
				1.01 - 1.49	0.010		
				0.5 - 24.5	0.500		
				25.0 - 100.0	25.000		
▪			87	1.001 - 1.009	0.001	0634 516	4,565.00
				1.01 - 1.49	0.010		
				0.5 - 9.5	0.500		
				10.0 - 100.0	10.000		
▪			47	1.005		0634 517	2,722.00
				1.01 - 1.09	0.010		
				1.11 - 1.19	0.010		
				1.1 - 1.9	0.100		
				1.0 - 9.0	1.000		
				10.0 - 100	10.000		
▪			32	1.005		0634 520	1,653.00
				1.01 - 1.09	0.010		
				1.1 - 1.9	0.100		
				1.0 - 9.0	1.000		
				10.0 - 30.0	10.000		
				50			
Tolerance class 1:							
▪			103	1.005		0634 614	4,798.00
				1.01 - 1.49	0.010		
				0.5 - 24.5	0.500		
				25.0 - 100.0	25.000		
▪			87	1.001 - 1.009	0.001	0634 616	3,813.00
				1.01 - 1.49	0.010		
				0.5 - 9.5	0.500		
				10.0 - 100.0	10.000		
▪			47	1.005		0634 617	2,275.00
				1.01 - 1.09	0.010		
				1.11 - 1.19	0.010		
				1.1 - 1.9	0.100		
				1.0 - 9.0	1.000		
				10.0 - 100	10.000		
▪			32	1.005		0634 620	1,379.00
				1.01 - 1.09	0.010		
				1.1 - 1.9	0.100		
				1.0 - 9.0	1.000		
				10.0 - 30.0	10.000		
				50			



0636 Set of pin gauges

HP

DIN
2269

Specification

- Made out of high quality gauge steel

Shipment

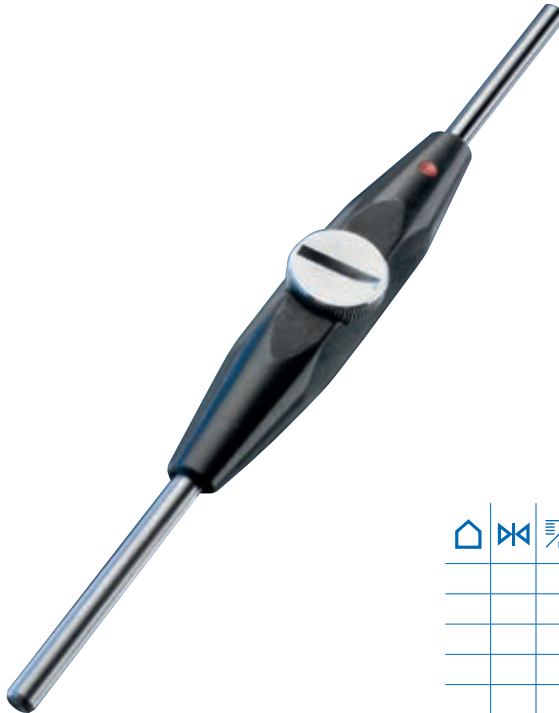
- Wooden case



			Pieces per set	Length mm	Increments mm	Nominal dimension mm	Accuracy GG μ	Ref. No.	List price Euro
Special steel, hardened and aged:									
			51	40	0.01	0.5 - 1.0	1	0636 301	729.00
			21	70	0.05	1.0 - 2.0	1	0636 321	221.00
			21	70	0.05	2.0 - 3.0	1	0636 322	221.00
			21	70	0.05	3.0 - 4.0	1	0636 323	273.00
			21	70	0.05	4.0 - 5.0	1	0636 324	273.00
			21	70	0.05	5.0 - 6.0	1	0636 325	273.00
			21	70	0.05	6.0 - 7.0	1	0636 326	333.00
			21	70	0.05	7.0 - 8.0	1	0636 327	333.00
			21	70	0.05	8.0 - 9.0	1	0636 328	333.00
			21	70	0.05	9.0 - 10.0	1	0636 329	333.00
Special steel, hardened and aged:									
			101	70	0.01	1.0 - 2.0	1	0636 341	928.00
			100	70	0.01	2.01 - 3.0	1	0636 342	928.00
			100	70	0.01	3.01 - 4.0	1	0636 343	1,176.00
			100	70	0.01	4.01 - 5.0	1	0636 344	1,176.00
			100	70	0.01	5.01 - 6.0	1	0636 345	1,176.00
			100	70	0.01	6.01 - 7.0	1	0636 346	1,447.00
			100	70	0.01	7.01 - 8.0	1	0636 347	1,447.00
			100	70	0.01	8.01 - 9.0	1	0636 348	1,447.00
			100	70	0.01	9.01 - 10.0	1	0636 349	1,447.00
			91	70	0.10	1.0 - 10.0	1	0636 351	1,186.00
			81	70	0.05	1.0 - 5.00	1	0636 352	1,078.00
Special steel, hardened and aged:									
			101	70	0.01	1.0 - 2.0	2	0636 372	649.00
			100	70	0.01	2.01 - 3.0	2	0636 373	649.00
			100	70	0.01	3.01 - 4.0	2	0636 374	855.00
			100	70	0.01	4.01 - 5.0	2	0636 375	855.00
			100	70	0.01	5.01 - 6.0	2	0636 376	855.00
			100	70	0.01	6.01 - 7.0	2	0636 377	1,035.00
			100	70	0.01	7.01 - 8.0	2	0636 378	1,174.00
			100	70	0.01	8.01 - 9.0	2	0636 379	1,174.00
			100	70	0.01	9.01 - 10.0	2	0636 380	1,174.00






0636 Pin gauge holder



Specification

- Die cast
- Locking screw

			For meas. range mm	Length of holder mm	Ref. No.	List price Euro
			1 - 2	60	0636 392	11.90
			2 - 4	68	0636 393	13.60
			4 - 6	76	0636 394	25.80
			6 - 8	84	0636 395	33.00
			8 - 10	92	0636 396	38.10



0637 Plug gauges



Specification

- Manufacturing tolerances: according to DIN 7162 and DIN 7164
- Fit H7
- All cylindrical
- Special dimensions with other tolerances are available upon request

			Nominal dimension dia. mm	Dimensions acc. DIN	Ref. No.	List price Euro
Gauge steel, hardened:						
			2	2245-1	0637 103	27.90
			2.2	2245-1	0637 104	27.90
			2.5	2245-1	0637 105	27.90
			2.8	2245-1	0637 106	20.30
			3	2245-1	0637 107	20.30
			3.5	2245-1	0637 108	18.20
			4	2245-1	0637 109	18.20
			4.5	2245-1	0637 110	18.20
			5	2245-1	0637 111	17.10
			6	2245-1	0637 112	17.10
			7	2245-1	0637 113	18.20
			8	2245-1	0637 114	18.20
			9	2245-1	0637 115	19.30
			10	2245-1	0637 116	20.30
			11	2245-1	0637 117	20.30
			12	2245-1	0637 118	21.50
			13	2245-1	0637 119	22.50
			14	2245-1	0637 120	22.50
			15	2245-1	0637 121	23.20
			16	2245-1	0637 122	23.20
			17	2245-1	0637 123	24.20
			18	2245-1	0637 124	25.20
			19	2245-1	0637 125	25.20
			20	2245-1	0637 126	25.20
			21	2245-1	0637 127	26.40
			22	2245-1	0637 128	27.00
			23	2245-1	0637 129	27.90
			24	2245-1	0637 130	27.90
			25	2245-1	0637 131	29.00
			26	2245-1	0637 132	30.10
			27	2245-1	0637 133	30.10
			28	2245-1	0637 134	31.10
			30	2245-1	0637 135	31.10
			32	2245-1	0637 136	34.40
			33	2245-1	0637 137	35.00
			34	2245-1	0637 138	36.10
			35	2245-1	0637 139	36.10
			36	2245-1	0637 140	36.80
			37	2245-1	0637 141	37.60
			38	2245-1	0637 142	38.70
			40	2245-1	0637 144	39.80
			42	2245-1	0637 146	41.10
			43	2245-1	0637 147	51.00
			44	2245-1	0637 148	44.10
			45	2245-1	0637 149	45.10



0637 Plug gauges

HP



Specification

- Manufacturing tolerances: according to DIN 7162 and DIN 7164
- Fit H7
- All cylindrical
- Special dimensions with other tolerances are available upon request

			Nominal dimension dia. mm	Dimensions acc. DIN	Ref. No.	List price Euro
Gauge steel, hardened:						
			46	2245-1	0637 150	45.80
			47	2245-1	0637 151	48.00
			48	2245-1	0637 152	49.00
			50	2245-1	0637 154	51.00
			52	2245-1	0637 155	53.00
			55	2245-1	0637 156	56.00
			58	2245-1	0637 157	60.00
			60	2245-1	0637 158	62.00
			62	2245-1	0637 159	65.00
			65	2245-1	0637 160	65.00
			68	2246-3 and 2247-3	0637 161	72.00
			70	2246-3 and 2247-3	0637 162	73.00
			72	2246-3 and 2247-3	0637 163	75.00
			75	2246-3 and 2247-3	0637 164	79.00
			78	2246-3 and 2247-3	0637 165	83.00
			80	2246-3 and 2247-3	0637 166	84.00
			82	2246-3 and 2247-3	0637 167	86.00
			85	2246-3 and 2247-3	0637 168	88.00
			88	2246-3 and 2247-3	0637 169	93.00
			90	2246-3 and 2247-3	0637 170	94.00
			92	2246-3 and 2247-3	0637 171	97.00
			95	2246-3 and 2247-3	0637 172	99.00
			98	2246-3 and 2247-3	0637 173	102.00
			100	2246-3 and 2247-3	0637 174	104.00

0637 Plug gauge set

HP



DIN
2245

Specification

- DIN 2245
- Hardened gauge steel
- GO and NO GO
- Fit H7

Shipment

- Wooden case

			Nominal dimensions mm	Ref. No.	List price Euro
7 pieces (3 - 12 mm):					
			3 - 4 - 5 - 6 - 8 - 10 - 12	0637 190	133.00



0643 Snap gauge, double jaw



Specification

- Dimensions 3 to 100 mm
- Gauge steel
- Hardened measuring faces
- Dimensions acc. DIN 2230
- Manufacturing tolerances: according to DIN 7162 and DIN 7163

Shipment

- Available on request
- **Important: Please mention dimension and fit**

0649 Adjustable snap gauges



Specification

- Die cast
- 1 fixed measuring face and 2 adjustable square measuring faces

Shipment

- Cardboard box

			Nominal dimension dia. mm	Ref. No.	List price Euro
			0 - 6	0649 201	64.00
			6 - 13	0649 202	64.00
			13 - 19	0649 203	64.00
			19 - 26	0649 204	66.00
			26 - 32	0649 205	66.00
			32 - 38	0649 206	70.00
			38 - 44	0649 207	70.00
			44 - 51	0649 208	73.00
			51 - 57	0649 209	73.00
			57 - 64	0649 210	77.00

			Nominal dimension dia. mm	Ref. No.	List price Euro
			64 - 70	0649 211	77.00
			70 - 78	0649 212	84.00
			78 - 87	0649 213	84.00
			87 - 97	0649 215	92.00
			97 - 106	0649 216	106.00
			106 - 116	0649 217	106.00
			116 - 125	0649 219	126.00
			125 - 135	0649 220	164.00
			135 - 144	0649 222	189.00
			144 - 156	0649 223	189.00



0650 Adjustable snap gauges



0650 103

Specification

- Adjustable
- Light alloy cast frame
- Carbide tipped measuring faces
- Without indicator
- Up to 100 mm with centering support and lift off device. Snap gauges above 100 mm, excludes centring support and lift off device.

Shipment

- Cardboard box
- Dial indicator not included



0650 114

			Measuring range dia. mm	Measuring jaws mm	Ref. No.	List price Euro
			0 - 25	15 x 15	0650 101	820.00
			25 - 50	15 x 15	0650 102	896.00
			50 - 75	15 x 15	0650 103	984.00
			75 - 100	15 x 15	0650 104	1,079.00
			100 - 150	40 x 18	0650 105	1,554.00
			150 - 200	40 x 18	0650 106	1,758.00
			200 - 250	40 x 18	0650 107	2,017.00
			250 - 300	40 x 18	0650 108	2,100.00
			300 - 350	40 x 18	0650 109	2,228.00
			350 - 400	40 x 18	0650 110	2,411.00
			400 - 450	40 x 18	0650 111	2,588.00
			450 - 500	40 x 18	0650 112	2,766.00
			500 - 550	40 x 18	0650 113	2,945.00
			550 - 600	40 x 18	0650 114	3,182.00
			600 - 650	40 x 18	0650 115	4,065.00
			650 - 700	40 x 18	0650 116	4,240.00
			700 - 750	40 x 18	0650 117	4,425.00
			750 - 800	40 x 18	0650 118	4,605.00
			800 - 850	40 x 18	0650 119	4,785.00



0656 Ring gauges

HP

DIN
2250-1



Specification

- Hardened gauge steel,
- DIN 2250-1 (C)
- For setting internal measuring instruments

			Nominal dimension dia. mm	Ref. No.	List price Euro
			4	0656 311	45,10
			4.5	0656 312	45,10
			5	0656 313	44,10
			6	0656 314	43,10
			7	0656 315	43,10
			8	0656 316	43,10
			9	0656 317	43,10
			10	0656 318	43,10
			11	0656 319	44,10
			12	0656 320	45,10
			13	0656 321	45,80
			14	0656 322	45,80
			15	0656 323	46,90
			16	0656 324	46,90
			17	0656 325	48,00
			18	0656 326	48,00
			19	0656 327	49,00
			20	0656 328	51,00
			21	0656 329	51,00
			22	0656 330	51,00
			23	0656 331	53,00
			24	0656 332	54,00
			25	0656 333	55,00
			26	0656 334	56,00
			27	0656 335	56,00
			28	0656 336	57,00
			30	0656 337	53,00
			32	0656 338	60,00
			33	0656 339	60,00
			34	0656 340	61,00
			35	0656 341	61,00
			36	0656 342	62,00
			37	0656 343	63,00
			38	0656 344	64,00
			40	0656 345	65,00
			42	0656 346	69,00
			44	0656 347	73,00
			45	0656 348	75,00
			46	0656 349	77,00
			47	0656 350	79,00
			48	0656 351	81,00
			50	0656 352	84,00
			52	0656 353	86,00
			55	0656 354	93,00
			58	0656 355	97,00

			Nominal dimension dia. mm	Ref. No.	List price Euro
			60	0656 356	101,00
			62	0656 357	104,00
			65	0656 358	111,00
			68	0656 359	119,00
			70	0656 360	122,00
			72	0656 361	127,00
			75	0656 362	131,00
			78	0656 363	138,00
			80	0656 364	143,00
			82	0656 365	151,00
			85	0656 366	161,00
			88	0656 367	171,00
			90	0656 368	177,00
			92	0656 369	185,00
			95	0656 370	196,00
			98	0656 371	206,00
			100	0656 372	212,00
			105	0656 373	223,00
			110	0656 374	234,00
			115	0656 375	244,00
			120	0656 376	256,00
			125	0656 377	266,00
			130	0656 378	276,00
			135	0656 379	287,00
			140	0656 380	297,00
			145	0656 381	308,00
			150	0656 382	319,00
			155	0656 383	348,00
			160	0656 384	376,00
			165	0656 385	404,00
			170	0656 386	434,00
			175	0656 387	463,00
			180	0656 388	491,00
			185	0656 389	521,00
			190	0656 390	548,00
			195	0656 391	578,00
			200	0656 392	606,00
			210	0656 393	638,00
			220	0656 394	667,00
			230	0656 395	699,00
			240	0656 396	730,00
			250	0656 397	761,00
			260	0656 398	792,00
			270	0656 399	822,00



0658 Thread plug gauges

HP



DIN
2280

Specification

- DIN 2280
- For standard metric ISO threads DIN 13
- Gauge steel, hardened
- Fit 6H

			Thread size M	Ref. No.	List price Euro
			1.0 x 0.25	0658 001	133.00
			1.2 x 0.25	0658 002	128.00
			1.4 x 0.30	0658 003	112.00
			1.6 x 0.35	0658 004	97.00
			1.8 x 0.35	0658 005	86.00
			2.0 x 0.40	0658 006	86.00
			2.2 x 0.45	0658 007	79.00
			2.5 x 0.45	0658 008	74.00
			3.0 x 0.50	0658 009	61.00
			3.5 x 0.60	0658 010	60.00
			4.0 x 0.70	0658 011	57.00
▪			5.0 x 0.80	0658 012	56.00
▪			6.0 x 1.00	0658 013	54.00
▪			7.0 x 1.00	0658 014	55.00
▪			8.0 x 1.25	0658 015	56.00
▪			9.0 x 1.25	0658 016	57.00
▪			10.0 x 1.50	0658 017	60.00
▪			11.0 x 1.50	0658 018	94.00
▪			12.0 x 1.75	0658 019	64.00

			Thread size M	Ref. No.	List price Euro
▪			14.0 x 2.00	0658 020	69.00
▪			16.0 x 2.00	0658 021	75.00
▪			18.0 x 2.50	0658 022	80.00
▪			20.0 x 2.50	0658 023	85.00
			22.0 x 2.50	0658 024	90.00
			24.0 x 3.00	0658 025	101.00
			27.0 x 3.00	0658 026	111.00
			30.0 x 3.50	0658 027	123.00
			33.0 x 3.50	0658 028	134.00
			36.0 x 4.00	0658 029	146.00
			39.0 x 4.00	0658 030	161.00
			42.0 x 4.50	0658 031	237.00
			45.0 x 4.50	0658 032	257.00
			48.0 x 5.00	0658 033	277.00
			52.0 x 5.00	0658 034	296.00
			60.0 x 5.50	0658 035	328.00
			56.0 x 5.50	0658 036	348.00
			64.0 x 6.00	0658 037	381.00
			68.0 x 6.00	0658 038	405.00

0658 Set of thread plug gauges

HP



DIN
13

Specification

- DIN 13
- Hardened gauge steel
- For standard metric ISO threads
- GO and NO GO
- Fit 6H

Shipment

- Wooden case

			Nominal dimensions mm	Ref. No.	List price Euro
7 pieces (M3 - M12 mm):					
			M3 - M4 - M5 - M6 - M8 - M10 - M12	0658 090	226.00



0658 Thread ring gauges

HP



DIN
2285-1



DIN
2299-1

Specification

- **GO thread ring gauge**
- For standard metric ISO threads DIN 13
- Hardened gauge steel
- DIN 2285-1
- Fit 6g (* 6h)

Specification

- **NO GO thread ring gauge**
- For standard metric ISO threads DIN 13
- Hardened gauge steel
- DIN 2299-1
- Fit 6g (* 6h)

			Thread size M	Ref. No.	List price Euro
			1.0 x 0.25*	0658 501	134.00
			1.2 x 0.25*	0658 502	127.00
			1.4 x 0.30*	0658 503	118.00
			1.6 x 0.35*	0658 504	86.00
			1.8 x 0.35*	0658 505	78.00
			2.0 x 0.40*	0658 506	78.00
			2.2 x 0.45	0658 507	67.00
			2.5 x 0.45	0658 508	58.00
			3.0 x 0.50	0658 509	48.00
			3.5 x 0.60	0658 510	45.10
			4.0 x 0.70	0658 511	44.10
			5.0 x 0.80	0658 512	44.10
			6.0 x 1.00	0658 513	44.10
			7.0 x 1.00	0658 514	44.10
			8.0 x 1.25	0658 515	45.10
			9.0 x 1.25	0658 516	48.00
			10.0 x 1.50	0658 517	53.00
			11.0 x 1.50	0658 518	60.00
			12.0 x 1.75	0658 519	62.00
			14.0 x 2.00	0658 520	67.00
			16.0 x 2.00	0658 521	75.00
			18.0 x 2.50	0658 522	86.00
			20.0 x 2.50	0658 523	95.00
			22.0 x 2.50	0658 524	103.00
			24.0 x 3.00	0658 525	111.00
			27.0 x 3.00	0658 526	124.00
			30.0 x 3.50	0658 527	134.00
			33.0 x 3.50	0658 528	148.00
			36.0 x 4.00	0658 529	158.00
			39.0 x 4.00	0658 530	172.00
			42.0 x 4.50	0658 531	188.00
			45.0 x 4.50	0658 532	198.00
			48.0 x 5.00	0658 533	210.00
			52.0 x 5.00	0658 534	227.00
			56.0 x 5.50	0658 535	240.00
			60.0 x 5.50	0658 536	257.00
			64.0 x 6.00	0658 537	275.00
			68.0 x 6.00	0658 538	291.00

			Thread size M	Ref. No.	List price Euro
			1.0 x 0.25*	0658 601	134.00
			1.2 x 0.25*	0658 602	127.00
			1.4 x 0.30*	0658 603	118.00
			1.6 x 0.35*	0658 604	86.00
			1.8 x 0.35*	0658 605	78.00
			2.0 x 0.40*	0658 606	78.00
			2.2 x 0.45	0658 607	67.00
			2.5 x 0.45	0658 608	58.00
			3.0 x 0.50	0658 609	48.00
			3.5 x 0.60	0658 610	45.10
			4.0 x 0.70	0658 611	44.10
			5.0 x 0.80	0658 612	44.10
			6.0 x 1.00	0658 613	44.10
			7.0 x 1.00	0658 614	44.10
			8.0 x 1.25	0658 615	45.10
			9.0 x 1.25	0658 616	48.00
			10.0 x 1.50	0658 617	53.00
			11.0 x 1.50	0658 618	61.00
			12.0 x 1.75	0658 619	62.00
			14.0 x 2.00	0658 620	67.00
			16.0 x 2.00	0658 621	75.00
			18.0 x 2.50	0658 622	86.00
			20.0 x 2.50	0658 623	95.00
			22.0 x 2.50	0658 624	103.00
			24.0 x 3.00	0658 625	111.00
			27.0 x 3.00	0658 626	124.00
			30.0 x 3.50	0658 627	134.00
			33.0 x 3.50	0658 628	148.00
			36.0 x 4.00	0658 629	158.00
			39.0 x 4.00	0658 630	172.00
			42.0 x 4.50	0658 631	188.00
			45.0 x 4.50	0658 632	198.00
			48.0 x 5.00	0658 633	210.00
			52.0 x 5.00	0658 634	227.00
			56.0 x 5.50	0658 635	240.00
			60.0 x 5.50	0658 636	257.00
			64.0 x 6.00	0658 637	275.00
			68.0 x 6.00	0658 638	291.00

0658 Set of GO thread ring gauges

HP



DIN
13

Specification

- M3 - M12, 7 pieces
- DIN 13
- Hardened gauge steel
- Coarse pitch metric ISO threads
- Fit 6 g

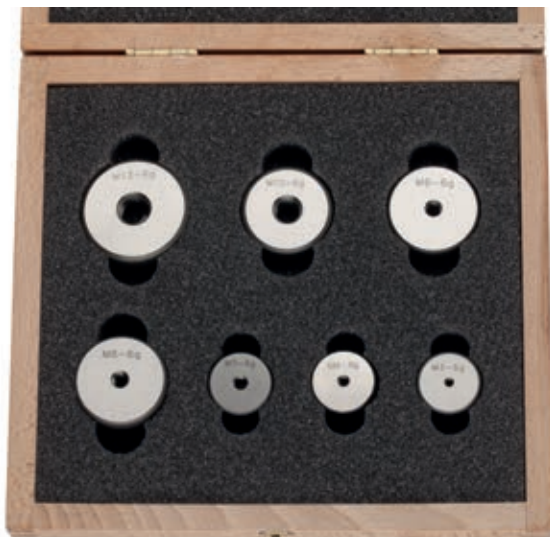
Shipment

- Wooden case

				Fit	Ref. No.	List price Euro
M3 - M12 (M3, M4, M5, M6, M8, M 10, M 12)				6 g	0658 590	226.00

0658 Set of NO GO thread ring gauges

HP



DIN
13

Specification

- M3 - M12, 7 pieces
- DIN 13
- Hardened gauge steel
- Coarse pitch metric ISO threads
- Fit 6 g

Shipment

- Wooden case

				Fit	Ref. No.	List price Euro
M3 - M12 (M3, M4, M5, M6, M8, M 10, M 12)				6 g	0658 690	226.00

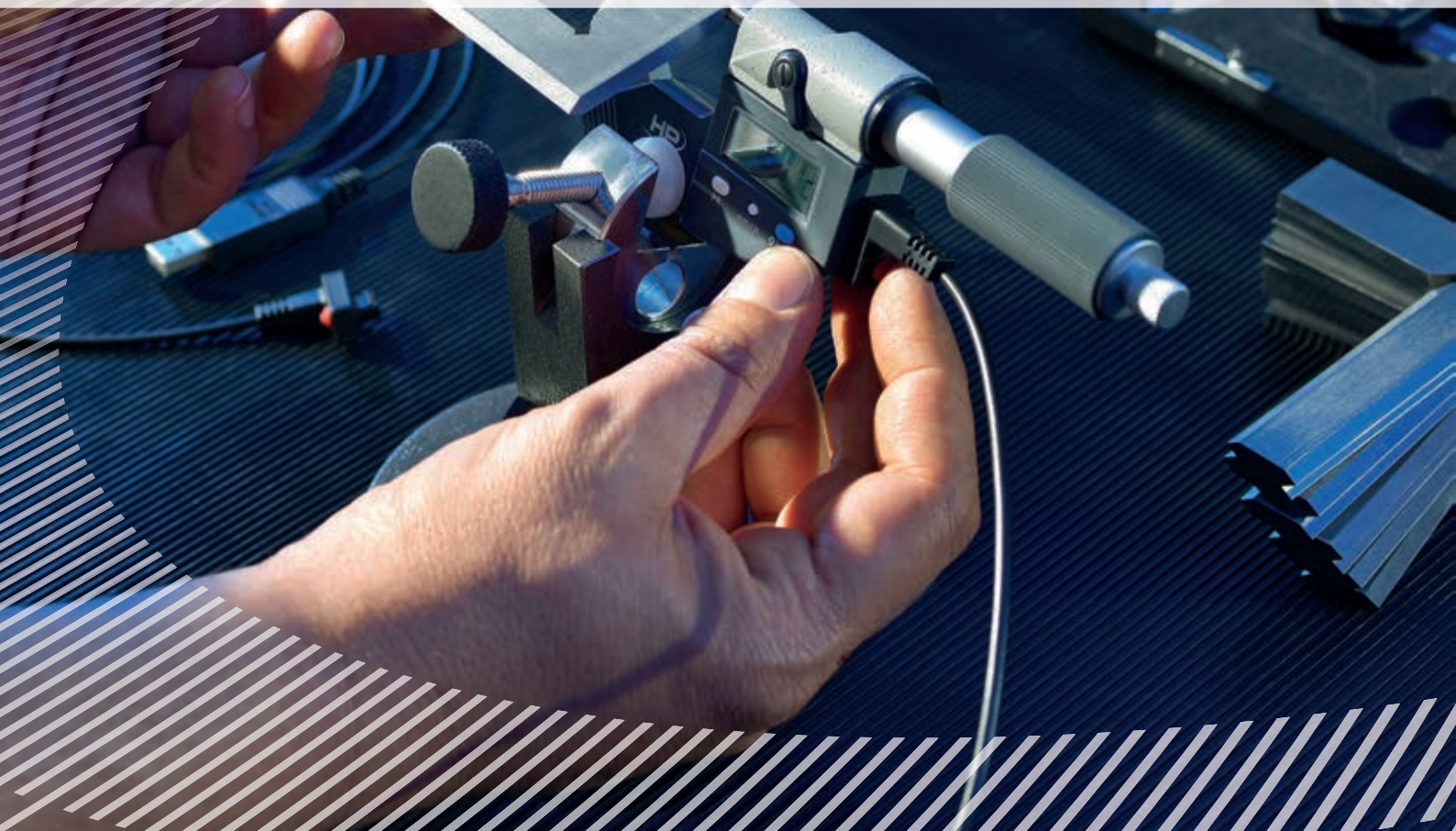


BRAND ADVANTAGES PAY OFF

With hand measuring instruments where highly accurate results are essential for the further stages of production, quality and accuracy of these results are paramount; those who try and save on quality are walking on thin ice.

Therefore, we develop and produce economical measuring instruments with have an excellent price/performance ratio, thus focussing on the proverbial Swabian virtues: be thrifty and economize where it is appropriate; permanently ingenious to find a better way of doing something and selectively invest so that new ideas can solve old problems.

And all this with the necessary flexibility to be able to react quickly and uncomplicated to individual wishes.



CHAPTER 7 **DATA-TRANSMISSION**



Data cables

7/2

Software

7/2

Accessories for data acquisition

7/3

USB-keyboard interface

7/4

Wireless data transmission

7/5

Overview data cable / measuring instrument

7/6





1997 / 1998 Data cable for variable data output



DATA VARIABLE plug to the device

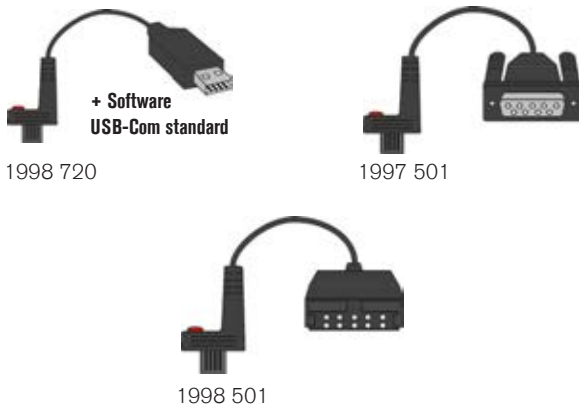


DATA-button on the plug-in jack: to transfer the measured results to a PC, laptop or keyboard-interface

Interfaces



- 1 USB (incl. Software USB-Com Standard)
- 2 Opto RS 232
- 3 Digimatic



Specification

- Available for all DIGI-MET® measuring instruments with a variable data output (DATA VARIABLE)
- Length 2 m
- With a data transfer button on the plug-in jack
- USB-data cable No. 1998 720 incl. Software USB-Com standard to transfer the measured results to applications, e.g. EXCEL®

	Ref. No.	List price Euro
Cable for USB incl. Software USB-Com standard	1998 720	64.00
Cable for RS 232	1997 501	44.90
Cable for Digimatic	1998 501	44.90

1998 Software USBCom data aquisition



Specification

Software for easy data aquisition, for all measuring instruments with variable data output (DATA VARIABLE)

USB-Com Standard* (No. 1998712)

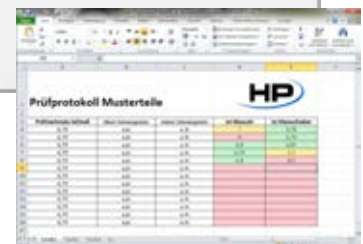
- Data transfer direct to MS EXCEL® (from version 97), text file or keyboard code
- Connection of one measuring instrument via USB plus one serial COM-interface possible
- Measured results can be transferred to separate Excel columns, -tables or folders
- Clear indication of the selected measuring instruments
- Flexible and comfortable data transmission, optional via „data“-button on the measuring instrument or the data cable or the PC keyboard, timer or foot-switch (optional)

USB-Com Professional (No. 1998710) with additional equipment:

- Connection of up to 100 measuring instruments with USB data cable possible
- Connection of two serial COM-interfaces possible
- Several foot switch via USB connectable, the measuring instruments can be freely assigned
- USB Hubs as measuring instrument interface connectable

System requirements:

IBM AT compatible PC, MS Windows 2000 / XP / Vista / 7, USB-interface from version 1.1, CD- / DVD-drive, min. 10 MB hard drive space, MS EXCEL® from version 97



* Please note, this software is already included with the USB data cable 1998 720.

	Ref. No.	List price Euro
USBCom Standard on a CD	1998 712	54.00
USBCom Professional on a CD	1998 710	216.00

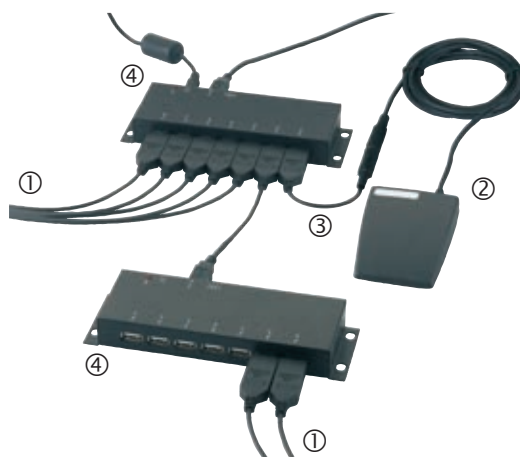




1998 Accesories for data aquisition with USB-Com



Example: possible measuring station setup



Specification

- ① USB-cable to devices
- ② Foot switch with jack plug
- ③ USB-adapter-cable for foot switch
- ④ USB-hub for connecting several devices



	Ref. No.	List price Euro
Data cable for USB incl. Software USB-Com standard	1998 720	64.00
Foot-switch* (length of the cable 2 m)	1998 732	64.00
USB-adapter cable for foot switch	1998 722	54.00
USB-hub sevenfold with plug-in power supply	1998 730	108.00

* To connect to the USB-Com, the USB-adapter cable Ref. No. 1998 722 is required

0996 Data cable for data output Opto RS 232



0996 701



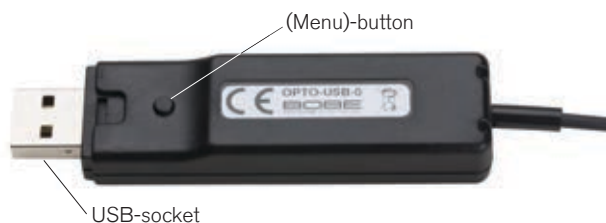
0996 705



	Ref. No.	List price Euro
Cable for Opto to RS 232	0996 701	69.00
Cable for Opto to USB	0996 705	132.00



0997 USB-keyboard interface cable



Plug connection to the device



Specification



- USB-keyboard interface and data cable are in one unit (length of the cable: 2 m)
- For connection of one unit
- Power supply via USB-Interface
- No driver file for the USB-Interface required
- The USB-Interface reveal themselves as a keyboard
- Terminators like Enter or Tab can be adjusted in the USB-Interface
- More settings such as language, separator and timer
- Transmit data using either the data-switch on measuring instrument or with a timer

	Ref. No.	List price Euro
① USB-keyboard interface cable Opto RS 232	0997 770	225.00
② USB-keyboard interface cable RS 232 Proximity	0997 772	225.00
③ USB-keyboard interface cable RS 232 Power	0997 774	275.00

0997 USB-keyboard interface “T-Box 302 USB”



Specification



- USB-keyboard interface for 4 x RS 232C input
- For simultaneous connection of up to 4 devices
- Power supply via USB-port
- No driver file for the USB-Interface required
- The USB-Interface reveal themselves as a keyboard
- Terminators like Enter or Tab can be adjusted at the USB-Interface
- More settings such as language, separator and timer
- Measured results to become directly c.g. to EXCEL® or other text processing programs or statistics programs conveyed
- Data transmission via a foot switch connector, data-switch on the cable or timer

Shipment

- With USB cable to the PC
- Cardboard box

	Ref. No.	List price Euro
Keyboard interface T-Box 302 USB	0997 778	740.00

Accessories	Ref. No.	List price Euro
Foot-switch with jack plug	1998 732	64.00
Data cable for DATA VARIABLE	1997 501	44.90
Data cable for OPTO RS232	0996 701	69.00





0997 Wireless data transmission with USB-keyboard interface technology



USB-receiver 0997 784



Specification

USB-receiver-station Ref. No. 0997 784

- Receiver* is recognised as a USB keyboard interface
- Power supply via USB interface
- No driver file for the USB interface required
- Set terminators e.g. Enter or TAB set via the USB interface
- More settings such as language and separator
- Measured results to sent directly to, for example, EXCEL® or other text processing programs or statistic programs
- Signal tone can be switch On / Off
- Possible to connect up to 99 measuring devices to one sender
- Wireless range ca. 10-15 m

Shipment

- With USB-cable to the PC
- Cardboard box

Specification

transmitter modules

- With data-button at the modules
- 2 variants for data output
 - DATA VARIABLE
 - Opto RS232

Shipment

- Double sided cellotape/Velco fastener
- Plastic case



Transmitter for DATA-Variable 0997 785



Transmitter for Opto RS232 0997 786

	Ref. No.	List price Euro
USB-receiver	0997 784	395.00
Transmitter for DATA VARIABLE	0997 785	450.00
Transmitter for Opto RS 232	0997 786	450.00



Overview DIGI-MET® Data cable / measuring instrument



For measuring
instruments

Data cables

USB
1998 720



Digimatic
1998 501



RS 232
1997 501



Opto RS 232 - USB
0996 705



Opto - RS 232
0996 701



RS 232
0909 110

0220

0221

0222

0223

0224

0225

0226

0258

0265

0266

0273

0274

0275

0276

0277

0278 700

0278 701

0278 702

0279

0340

0342

0425

0907

0908

0932

0933

1220

1222

1226

1231

1234

1235

1238

1240

1241

1243

1244

1248

1253

1260

1262

1264

1266

1268

1276

1278

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■

■



Marked ■ = includes a F.O.C. calibration certificate, traceable to national standards








Marked ■ = available from stock



Marked ■ = excess length/excess weight

Overview DIGI-MET® Data cable / measuring instrument

For measuring instruments	Data cables					
	USB 1998 720	Digimatic 1998 501	RS 232 1997 501	Opto RS 232 - USB 0996 705	Opto - RS 232 0996 701	RS 232 0909 110
						
1279	■	■	■			
1722	■	■	■			
1723	■	■	■			
1724	■	■	■			
1726	■	■	■			
1728	■	■	■			
1730	■	■	■			
1732	■	■	■			
1734	■	■	■			
1865	■	■	■			



WE ARE ALWAYS CLOSE TO YOU

Instead of concentrating on the „Far East“, we want to maintain the “being close to you”; particularly the wishes of our partners as well as the expectations of our customers regarding everything from service to the diversity of our products. Essential is the consistent focus on the operator-orientation and the commitment to Germany; as a medium sized production company we know what is expected of us: quality you can feel combined with a range of services which in all details speaks the same language as the customer– particularly then when our advice is required.

CHAPTER 8 **CALIBRATION SERVICE, ORDER NUMBER INDEX, KEYWORD INDEX**



Calibration service

8/2

Order number index

8/4


Keyword index

8/18



Free initial calibration available with many of our products



All HELIOS-PREISSER measuring instruments with a  marked in the column (=Calibration), will undergo initial calibration and are supplied with a certificate at no extra charge! No separate order is required for these articles to be pre-calibrated on delivery.

For all other gauges and measuring instruments, and for subsequent calibration, the following calibration services are offered. Testing is carried out in accordance with VDI / VDE / DGQ guidelines 26 ff.

Calibration service



Calipers / Depth gauges / Height gauges analogue or digital (1 graduation)

Maximum measuring range mm	Ref. No.	List price Euro
150	4310 110	10.80
300	4310 115	19.20
500	4310 120	32.60
1000	4310 125	69.00
2000	4310 130	95.00
3000	4310 135	149.00

Micrometers according to DIN 863-1

Maximum measuring range mm	Ref. No.	List price Euro
25	4320 210	18.40
100	4320 212	24.70
200	4320 214	26.80
300	4320 220	29.70
500	4320 224	32.80
1000	4320 228	54.00

Micrometers with interchangeable inserts including setting standard

Maximum measuring range mm	Ref. No.	List price Euro
100	4320 810	115.00
200	4320 814	163.00
300	4320 818	175.00
400	4320 822	180.00
500	4320 826	180.00
600	4320 830	180.00
700	4320 834	229.00
800	4320 838	229.00
900	4320 842	229.00
1000	4320 846	229.00
1200	4320 850	272.00
1400	4320 854	272.00
1600	4320 858	325.00
1800	4320 862	325.00
2000	4320 866	325.00

Setting standards for micrometers Tolerance zone js 2

Maximum nominal dimension mm	Ref. No.	List price Euro
100	4329 010	6.50
500	4329 026	15.00
1000	4329 046	29.90

Flanged base, straight edges and knife-edge straight edges according to DIN 875 all accuracies

Maximum beam length mm	Ref. No.	List price Euro
100	4340 210	14.00
200	4340 214	15.50
500	4340 218	22.70
750	4340 222	38.90
1000	4340 226	46.40
1500	4340 230	69.00

Protractor

Ref. No.	List price Euro
4342 410	10.80

Universal bevel protractor analogue or digital (1 blade)

Ref. No.	List price Euro
4342 610	24.70

Rules according to DIN 866 Form A / B

Maximum length mm	Ref. No.	List price Euro
500	4350 210	28.20
1000	4350 218	46.10
1500	4350 226	69.00
2000	4350 232	89.00
3000	4350 238	125.00



Calibration service



Flat rules according to DIN 874 Part 1 all accuracies

Maximum length mm	Ref. No.	List price Euro
500	4351 610	23.50
1000	4351 618	55.00
2000	4351 628	82.00
3000	4351 638	104.00

Knife edge rules according to DIN 874 Part 2 all accuracies

Maximum length mm	Ref. No.	List price Euro
200	4352 412	13.40
500	4352 418	21.20
1000	4352 422	40.20

Levels

Maximum length mm	Ref. No.	List price Euro
300	4353 410	49.00

Frame levels

Maximum length mm	Ref. No.	List price Euro
300	4353 510	68.00

Parallel gauge blocks

Maximum nominal dimension mm	Ref. No.	List price Euro
100	4357 010	10.10
300	4357 020	29.70

Plug gauges, GO / NO-GO master gauges

Maximum diameter mm	Ref. No.	List price Euro
100	4357 610	10.30
200	4357 620	17.50

Setting rings (master rings)

Maximum diameter mm	Ref. No.	List price Euro
100	4358 410	15.50
200	4358 420	27.20

Thread gauges, NO-GO snap gauges

Maximum nominal dimension mm	Ref. No.	List price Euro
100	4358 810	17.50

Thread plug gauges, GO / NO-GO thread gauges

Maximum diameter mm	Ref. No.	List price Euro
100	4359 210	22.30

Thread master rings

Maximum diameter mm	Ref. No.	List price Euro
100	4359 410	28.50

Indicators, analogue and digital, readings/resolution 0.01 and 0.001

Maximum measuring range mm	Ref. No.	List price Euro
12.5	4360 210	22.70
30	4360 212	32.60
50	4360 214	36.90
100	4360 218	47.40

Dial test indicator

Ref. No.	List price Euro
4360 810	31.50

Ref. No.	Page	List Price €	Ref. No.	Page	List Price €	Ref. No.	Page	List Price €
0003 219	1/70	6.90	0216 521	1/9	329.00	0235 211	1/23	485.00
0003 220	1/70	8.30	0217 501	1/9	61.00	0235 214	1/23	556.00
0003 221	1/70	10.40	0217 502	1/9	122.00	0235 218	1/23	647.00
0003 222	1/70	14.40	0218 501	1/9	82.00	0235 222	1/23	1,062.00
0003 223	1/71	16.10	0219 503	1/28	269.00	0235 224	1/23	1,342.00
0003 224	1/71	24.20	0220 204	2/8	3.00	0235 226	1/23	1,982.00
0003 225	1/70	31.50	0220 704	1/11, 2/9, 3/2, 4/19, 5/16	3.50	0235 501	1/23	132.00
0003 226	1/70	37.60	0220 705	1/13	20.10	0235 502	1/23	158.00
0003 227	1/70	34.40	0220 721	1/12	148.00	0235 503	1/23	169.00
0003 228	1/71	41.90	0220 723	1/12	216.00	0235 505	1/23	386.00
0003 229	1/70	43.10	0221 701	1/36	498.00	0235 508	1/23	474.00
0003 230	1/70	44.10	0221 702	1/36	643.00	0235 511	1/23	539.00
0003 231	1/70	45.10	0221 711	1/36	531.00	0235 514	1/23	621.00
0003 232	1/71	45.10	0221 712	1/36	704.00	0235 518	1/23	734.00
0003 233	1/70	54.00	0222 701	1/34	351.00	0235 522	1/23	1,186.00
0003 234	1/70	60.00	0222 702	1/34	517.00	0235 524	1/23	1,508.00
0003 235	1/71	65.00	0222 703	1/34	846.00	0235 526	1/23	2,223.00
0003 236	1/71	55.00	0222 704	1/34	970.00	0236 201	1/24	85.00
0003 237	1/70	59.00	0222 724	1/34	2,403.00	0236 202	1/24	103.00
0003 238	1/70	60.00	0222 726	1/34	2,883.00	0236 203	1/24	116.00
0003 239	1/71	67.00	0223 701	1/34	392.00	0236 204	1/25	215.00
0003 240	1/70	78.00	0223 702	1/34	581.00	0236 205	1/24	237.00
0003 241	1/71	78.00	0223 703	1/34	897.00	0236 206	1/25	306.00
0003 242	1/71	74.00	0223 704	1/34	1,033.00	0236 207	1/25	373.00
0003 243	1/70	79.00	0223 724	1/34	2,564.00	0236 208	1/24	313.00
0003 244	1/70	88.00	0223 726	1/34	2,971.00	0236 209	1/25	415.00
0003 245	1/71	98.00	0224 701	1/35	319.00	0236 210	1/25	500.00
0003 246	1/70	106.00	0224 702	1/35	441.00	0236 211	1/24	375.00
0003 247	1/71	121.00	0224 703	1/35	771.00	0236 212	1/25	521.00
0003 248	1/71	103.00	0224 704	1/35	887.00	0236 213	1/25	640.00
0003 249	1/70	103.00	0224 724	1/35	2,173.00	0236 214	1/24	400.00
0003 250	1/70	131.00	0224 726	1/35	2,634.00	0236 215	1/25	603.00
0003 251	1/71	137.00	0225 701	1/35	358.00	0236 216	1/25	771.00
0003 252	1/70	148.00	0225 702	1/35	508.00	0236 217	1/25	895.00
0003 253	1/70	176.00	0225 703	1/35	831.00	0236 218	1/24	500.00
0003 254	1/71	229.00	0225 704	1/35	956.00	0236 219	1/25	740.00
0003 255	1/70	270.00	0225 724	1/35	2,291.00	0236 220	1/25	826.00
0003 256	1/70	256.00	0225 726	1/35	2,719.00	0236 221	1/25	1,245.00
0003 257	1/71	275.00	0226 701	1/40	511.00	0236 222	1/24	775.00
0003 258	1/70	286.00	0226 702	1/40	661.00	0236 224	1/24	1,056.00
0003 259	1/70	330.00	0228 701	1/38	442.00	0236 225	1/25	1,277.00
0003 280	5/12	3.80	0228 702	1/38	615.00	0236 226	1/24	1,456.00
0003 281	5/12	4.20	0228 703	1/38	865.00	0236 227	1/25	1,776.00
0003 282	5/12	4.40	0228 704	1/38	1,020.00	0236 230	1/24	2,407.00
0003 283	5/12	5.50	0230 501	1/21	122.00	0236 231	1/25	2,936.00
0003 284	5/12	6.10	0230 502	1/21	143.00	0236 501	1/24	96.00
0003 285	5/12	6.90	0230 503	1/21	158.00	0236 502	1/24	121.00
0003 286	5/12	8.10	0230 508	1/21	458.00	0236 503	1/24	131.00
0003 287	5/12	7.70	0231 501	1/21	146.00	0236 504	1/25	232.00
0003 288	5/12	17.30	0231 502	1/21	165.00	0236 505	1/24	278.00
0003 289	5/12	10.40	0231 503	1/21	180.00	0236 506	1/25	357.00
0003 290	5/12	17.30	0231 508	1/21	500.00	0236 507	1/25	433.00
0003 291	5/12	29.90	0234 201	1/22	98.00	0236 508	1/24	365.00
0003 292	5/12	33.00	0234 202	1/22	120.00	0236 509	1/25	481.00
0003 293	5/12	33.30	0234 203	1/22	128.00	0236 510	1/25	574.00
0003 294	5/12	37.20	0234 205	1/22	300.00	0236 511	1/24	436.00
0003 310	5/5	201.00	0234 208	1/22	376.00	0236 512	1/25	543.00
0003 314	5/5	242.00	0234 211	1/22	439.00	0236 513	1/25	707.00
0003 316	5/5	263.00	0234 214	1/22	500.00	0236 514	1/24	453.00
0003 326	5/5	263.00	0234 218	1/22	607.00	0236 515	1/25	700.00
0145 110	1/14	154.00	0234 222	1/22	971.00	0236 516	1/25	892.00
0184 501	1/2	22.50	0234 224	1/22	1,256.00	0236 517	1/25	1,047.00
0184 505	1/2	29.20	0234 226	1/22	1,833.00	0236 518	1/24	565.00
0185 501	1/2	22.50	0234 501	1/22	110.00	0236 519	1/25	858.00
0188 501	1/3	19.50	0234 502	1/22	134.00	0236 520	1/25	1,083.00
0189 501	1/3	19.50	0234 503	1/22	147.00	0236 521	1/25	1,479.00
0190 501	1/7	23.60	0234 505	1/22	340.00	0236 522	1/24	928.00
0194 501	1/4	23.60	0234 508	1/22	438.00	0236 524	1/24	1,245.00
0195 501	1/4	23.60	0234 511	1/22	498.00	0236 525	1/25	1,519.00
0196 50105	1/5	22.50	0234 514	1/22	564.00	0236 526	1/25	1,877.00
0196 50116	1/5	22.50	0234 518	1/22	677.00	0236 527	1/25	2,250.00
0196 50516	1/5	32.30	0234 522	1/22	1,106.00	0237 201	1/26	109.00
0198 501	1/6	27.20	0234 524	1/22	1,423.00	0237 202	1/26	128.00
0199 501	1/6	27.20	0234 526	1/22	2,083.00	0237 203	1/26	140.00
0203 501	1/7	45.10	0235 201	1/23	123.00	0237 204	1/27	238.00
0206 510	1/8	59.00	0235 202	1/23	143.00	0237 205	1/26	285.00
0206 512	1/8	189.00	0235 203	1/23	151.00	0237 206	1/27	353.00
0212 501	1/8	99.00	0235 205	1/23	347.00	0237 207	1/27	421.00
0216 501	1/9	78.00	0235 208	1/23	423.00	0237 208	1/26	362.00



Ref. No.	Page	List Price €	Ref. No.	Page	List Price €	Ref. No.	Page	List Price €
0237 209	1/27	464.00	0250 543	1/42	778.00	0279 703	1/61	416.00
0237 210	1/27	547.00	0250 544	1/42	1,001.00	0279 722	1/61	244.00
0237 211	1/26	423.00	0250 545	1/42	1,216.00	0279 723	1/61	256.00
0237 212	1/27	566.00	0250 551	1/43	247.00	0280 501	1/49	45.80
0237 213	1/27	688.00	0250 552	1/43	655.00	0281 201	1/49	73.00
0237 214	1/26	456.00	0250 553	1/43	778.00	0281 202	1/49	76.00
0237 215	1/27	661.00	0250 554	1/43	1,001.00	0281 204	1/49	85.00
0237 216	1/27	828.00	0250 555	1/43	1,216.00	0281 205	1/49	95.00
0237 217	1/27	953.00	0250 561	1/43	247.00	0281 501	1/49	80.00
0237 218	1/26	556.00	0250 562	1/43	655.00	0281 502	1/49	83.00
0237 219	1/27	799.00	0250 563	1/43	778.00	0281 504	1/49	94.00
0237 220	1/27	884.00	0250 564	1/43	1,001.00	0281 505	1/49	103.00
0237 221	1/27	1,302.00	0250 565	1/43	1,216.00	0282 101	1/50	43.30
0237 222	1/26	862.00	0250 571	1/43	259.00	0282 102	1/50	45.10
0237 224	1/26	1,145.00	0250 572	1/43	722.00	0282 104	1/50	54.00
0237 225	1/27	1,365.00	0250 573	1/43	859.00	0282 105	1/50	60.00
0237 226	1/26	1,600.00	0250 574	1/43	1,081.00	0282 108	1/50	126.00
0237 227	1/27	1,919.00	0250 575	1/43	1,312.00	0282 109	1/50	219.00
0237 230	1/26	2,616.00	0252 201	1/45	128.00	0282 110	1/50	303.00
0237 231	1/27	3,144.00	0252 202	1/45	247.00	0282 201	1/50	64.00
0237 501	1/26	119.00	0252 203	1/45	270.00	0282 202	1/50	66.00
0237 502	1/26	145.00	0252 291	1/45	2.20	0282 203	1/50	77.00
0237 503	1/26	156.00	0252 293	1/45	3.50	0282 204	1/50	74.00
0237 504	1/27	255.00	0253 300	1/45	76.00	0282 205	1/50	81.00
0237 505	1/26	325.00	0253 301	1/45	76.00	0282 206	1/50	90.00
0237 506	1/27	402.00	0253 302	1/45	96.00	0282 207	1/50	124.00
0237 507	1/27	479.00	0253 391	1/45	3.50	0282 208	1/50	191.00
0237 508	1/26	411.00	0258 501	1/46	129.00	0282 209	1/50	316.00
0237 509	1/27	526.00	0258 502	1/46	172.00	0282 210	1/50	449.00
0237 510	1/27	620.00	0258 503	1/46	264.00	0282 212	1/50	1,096.00
0237 511	1/26	481.00	0258 504	1/46	299.00	0282 213	1/50	1,440.00
0237 512	1/27	633.00	0258 505	1/46	334.00	0282 501	1/50	70.00
0237 513	1/27	755.00	0258 701	1/46	348.00	0282 502	1/50	74.00
0237 514	1/26	509.00	0258 702	1/46	392.00	0282 503	1/50	84.00
0237 515	1/27	757.00	0258 703	1/46	718.00	0282 504	1/50	81.00
0237 516	1/27	947.00	0258 704	1/46	809.00	0282 505	1/50	88.00
0237 517	1/27	1,105.00	0258 705	1/46	843.00	0282 507	1/50	137.00
0237 518	1/26	622.00	0260 501	1/47	66.00	0282 508	1/50	209.00
0237 519	1/27	912.00	0260 502	1/47	66.00	0282 509	1/50	347.00
0237 520	1/27	1,139.00	0262 503	1/44	243.00	0282 510	1/50	492.00
0237 521	1/27	1,537.00	0265 720	1/39	448.00	0286 101	1/51	53.00
0237 522	1/26	1,013.00	0265 52005	1/29	242.00	0286 102	1/51	54.00
0237 524	1/26	1,332.00	0266 52005	1/29	325.00	0286 104	1/51	66.00
0237 525	1/27	1,608.00	0266 720	1/39	530.00	0286 105	1/51	73.00
0237 526	1/26	2,018.00	0268 201	1/48	277.00	0286 201	1/51	77.00
0237 527	1/27	2,391.00	0268 211	1/48	337.00	0286 202	1/51	79.00
0238 503	1/28	308.00	0273 731	1/69	161.00	0286 204	1/51	88.00
0238 508	1/28	486.00	0273 732	1/69	168.00	0286 205	1/51	95.00
0238 514	1/28	650.00	0273 735	1/69	171.00	0286 206	1/51	118.00
0238 518	1/28	761.00	0273 738	1/69	218.00	0286 207	1/51	150.00
0238 524	1/28	1,974.00	0273 741	1/69	264.00	0286 208	1/51	251.00
0238 526	1/28	2,298.00	0273 745	1/69	463.00	0286 209	1/51	393.00
0250 101	1/43	5.30	0273 746	1/69	504.00	0286 210	1/51	545.00
0250 102	1/43	6.30	0273 751	1/69	218.00	0286 212	1/51	1,178.00
0250 103	1/43	6.30	0273 752	1/69	227.00	0286 213	1/51	1,518.00
0250 201	1/43	53.00	0273 755	1/69	230.00	0286 501	1/51	84.00
0250 202	1/43	77.00	0273 758	1/69	278.00	0286 502	1/51	85.00
0250 501	1/42	229.00	0273 761	1/69	326.00	0286 504	1/51	97.00
0250 502	1/42	624.00	0273 765	1/69	565.00	0286 505	1/51	103.00
0250 503	1/42	740.00	0273 766	1/69	607.00	0286 507	1/51	165.00
0250 504	1/42	934.00	0274 700	1/54	309.00	0286 508	1/51	348.00
0250 505	1/42	1,134.00	0274 701	1/54	345.00	0286 509	1/51	469.00
0250 511	1/42	247.00	0274 702	1/54	409.00	0286 510	1/51	598.00
0250 512	1/42	655.00	0274 704	1/54	1,645.00	0289 511	1/52	170.00
0250 513	1/42	778.00	0274 708	1/54	295.00	0289 512	1/52	256.00
0250 514	1/42	1,001.00	0274 712	1/54	1,877.00	0289 521	1/52	170.00
0250 515	1/42	1,216.00	0274 713	1/54	2,227.00	0289 522	1/52	256.00
0250 521	1/42	247.00	0275 701	1/56	375.00	0289 531	1/52	170.00
0250 522	1/42	655.00	0275 702	1/56	452.00	0289 532	1/52	256.00
0250 523	1/42	778.00	0276 700	1/58	351.00	0289 541	1/52	170.00
0250 524	1/42	1,001.00	0276 701	1/58	394.00	0289 542	1/52	256.00
0250 525	1/42	1,216.00	0276 711	1/58	5.70	0289 551	1/52	170.00
0250 531	1/42	247.00	0277 701	1/66	224.00	0289 552	1/52	256.00
0250 532	1/42	655.00	0278 700	1/62	379.00	0289 561	1/52	170.00
0250 533	1/42	778.00	0278 701	1/62	478.00	0289 562	1/52	256.00
0250 534	1/42	1,001.00	0278 702	1/62	578.00	0289 571	1/52	182.00
0250 535	1/42	1,216.00	0278 720	1/62	421.00	0289 572	1/52	270.00
0250 541	1/42	247.00	0278 721	1/62	528.00	0292 501	1/53	79.00
0250 542	1/42	655.00	0279 701	1/61	353.00	0292 502	1/53	89.00

Ref. No.	Page	List Price €	Ref. No.	Page	List Price €	Ref. No.	Page	List Price €
0294 504	1/53	422.00	0312 105	4/9	5.30	0331 340	4/17	300.00
0294 505	1/53	673.00	0312 107	4/9	6.50	0331 343	4/17	400.00
0294 506	1/53	1,047.00	0312 108	4/9	7.90	0331 344	4/17	650.00
0294 507	1/53	1,419.00	0313 101	4/9	3.10	0334 101	4/14	67.00
0300 007	4/2	1.80	0313 103	4/9	4.40	0334 102	4/14	112.00
0300 008	4/2	2.00	0313 105	4/9	5.30	0334 105	4/14	82.00
0300 009	4/2	1.00	0313 107	4/9	6.50	0334 106	4/14	123.00
0300 010	4/2	1.00	0313 108	4/9	7.90	0334 110	4/21	59.00
0300 011	4/2	1.80	0314 002	4/7	69.00	0334 601	4/14	30.30
0300 013	4/2	9.10	0314 003	4/7	79.00	0334 602	4/14	101.00
0300 014	4/2	1.80	0314 004	4/7	83.00	0334 604	4/14	166.00
0300 102	4/2	5.10	0314 005	4/7	87.00	0336 301	4/14	378.00
0300 103	4/2	5.10	0314 102	4/7	105.00	0336 302	4/14	521.00
0300 112	4/2	4.20	0314 103	4/7	124.00	0336 304	4/14	1,150.00
0300 114	4/2	7.90	0314 104	4/7	128.00	0336 305	4/14	on Request
0301 001	4/3	6.50	0314 105	4/7	133.00	0336 306	4/14	on Request
0301 002	4/3	7.50	0316 110	4/5	6.90	0338 302	4/18	1,079.00
0301 003	4/3	8.30	0316 111	4/5	26.00	0338 303	4/18	1,390.00
0301 004	4/3	11.50	0316 151	4/5	102.00	0338 304	4/18	2,480.00
0301 005	4/3	13.90	0316 152	4/5	123.00	0338 305	4/18	3,425.00
0301 006	4/3	37.60	0316 153	4/5	164.00	0338 311	4/18	128.00
0301 007	4/3	53.00	0316 154	4/5	211.00	0338 312	4/18	145.00
0301 008	4/3	70.00	0316 201	4/5	104.00	0338 316	4/18	128.00
0301 009	4/3	98.00	0316 202	4/5	156.00	0338 317	4/18	145.00
0301 010	4/3	144.00	0317 001	4/6	52.00	0338 321	4/18	128.00
0302 001	4/3	9.60	0317 002	4/6	73.00	0338 322	4/18	145.00
0302 002	4/3	10.60	0317 003	4/6	101.00	0338 326	4/18	128.00
0302 003	4/3	11.30	0317 004	4/6	146.00	0338 327	4/18	145.00
0302 004	4/3	14.80	0317 005	4/6	336.00	0338 331	4/18	128.00
0302 005	4/3	19.30	0317 006	4/6	546.00	0338 332	4/18	145.00
0302 006	4/3	54.00	0317 007	4/6	729.00	0338 336	4/18	128.00
0302 007	4/3	66.00	0317 010	4/6	4.60	0338 337	4/18	145.00
0302 008	4/3	86.00	0317 101	4/6	64.00	0338 341	4/18	128.00
0302 009	4/3	119.00	0317 102	4/6	86.00	0338 342	4/18	145.00
0302 010	4/3	164.00	0317 103	4/6	122.00	0338 346	4/18	128.00
0303 001	4/8	6.30	0317 104	4/6	158.00	0338 347	4/18	145.00
0303 002	4/8	6.90	0317 105	4/6	365.00	0338 354	4/19	132.00
0303 003	4/8	7.90	0317 106	4/6	575.00	0338 357	4/19	169.00
0303 004	4/8	8.50	0317 107	4/6	758.00	0338 361	4/19	115.00
0303 005	4/8	9.60	0317 110	4/6	21.50	0338 362	4/19	164.00
0303 006	4/8	11.80	0318 201	4/11	138.00	0340 701	4/19	583.00
0303 007	4/8	14.60	0318 203	4/11	147.00	0340 702	4/19	680.00
0303 008	4/8	22.10	0318 210	4/11	5.70	0342 101	4/21	100.00
0303 009	4/8	31.80	0318 211	4/11	29.20	0342 701	4/20	704.00
0303 010	4/8	58.00	0319 001	4/12	32.90	0342 702	4/20	783.00
0303 012	4/8	510.00	0319 002	4/12	40.90	0342 704	4/20	1,379.00
0303 015	4/8	541.00	0319 003	4/12	59.00	0343 501	4/10	238.00
0303 020	4/8	577.00	0319 004	4/12	79.00	0343 503	4/10	268.00
0304 001	4/8	6.30	0319 010	4/12	3.50	0343 508	4/10	616.00
0304 002	4/8	6.90	0319 101	4/12	41.90	0344 501	4/10	117.00
0304 003	4/8	7.90	0319 102	4/12	49.00	0344 502	4/10	149.00
0304 004	4/8	8.50	0319 103	4/12	67.00	0344 503	4/10	189.00
0304 005	4/8	9.60	0319 104	4/12	86.00	0344 505	4/10	400.00
0304 006	4/8	11.80	0319 510	4/12	35.40	0364 209	5/5	448.00
0304 007	4/8	14.60	0320 001	4/13	40.90	0364 211	5/5	748.00
0304 008	4/8	22.10	0320 002	4/13	79.00	0364 212	5/5	1,048.00
0304 009	4/8	31.80	0320 101	4/13	64.00	0364 242	5/5	500.00
0304 010	4/8	58.00	0320 102	4/13	101.00	0368 102	5/2	14.40
0304 012	4/8	510.00	0321 301	4/11	20.30	0368 103	5/2	16.70
0304 015	4/8	541.00	0321 302	4/11	22.50	0368 104	5/2	25.40
0304 020	4/8	577.00	0321 303	4/11	23.00	0368 105	5/2	32.50
0308 201	4/7	85.00	0321 305	4/11	44.20	0368 106	5/2	46.90
0308 202	4/7	101.00	0322 501	4/12	23.00	0368 107	5/2	63.00
0308 303	4/7	123.00	0322 503	4/12	36.00	0368 108	5/2	138.00
0308 305	4/7	146.00	0322 510	4/12	4.00	0368 109	5/2	202.00
0310 101	4/4	3.10	0330 301	4/16	200.00	0368 110	5/2	289.00
0310 103	4/4	3.80	0330 302	4/16	250.00	0368 111	5/2	494.00
0310 105	4/4	4.20	0331 011	4/15	102.00	0368 112	5/2	885.00
0310 107	4/4	5.30	0331 030	4/15	120.00	0368 202	5/2	21.50
0310 108	4/4	6.30	0331 111	4/15	133.00	0368 203	5/2	23.20
0311 101	4/4	3.10	0331 130	4/15	152.00	0368 204	5/2	39.80
0311 103	4/4	4.20	0331 301	4/15	211.00	0368 205	5/2	57.00
0311 105	4/4	5.10	0331 302	4/15	262.00	0368 206	5/2	84.00
0311 107	4/4	6.10	0331 303	4/15	401.00	0368 207	5/2	93.00
0311 108	4/4	6.50	0331 304	4/15	579.00	0368 208	5/2	175.00
0311 120	4/4	2.00	0331 311	4/15	254.00	0368 209	5/2	242.00
0311 121	4/4	17.10	0331 312	4/15	306.00	0368 210	5/2	361.00
0312 101	4/9	3.10	0331 313	4/15	431.00	0368 211	5/2	618.00
0312 103	4/9	4.40	0331 314	4/15	610.00	0368 212	5/2	1,312.00



Ref. No.	Page	List Price €	Ref. No.	Page	List Price €	Ref. No.	Page	List Price €
0369 102	5/2	9.40	0373 102	5/4	3.50	0390 105	5/9	48.00
0369 103	5/2	10.60	0373 103	5/4	5.50	0390 106	5/9	64.00
0369 104	5/2	13.00	0373 104	5/4	7.50	0390 108	5/9	109.00
0369 105	5/2	21.50	0373 105	5/4	9.10	0390 202	5/9	43.10
0369 106	5/2	29.70	0373 106	5/4	12.60	0390 203	5/9	49.00
0369 107	5/2	38.20	0373 107	5/4	16.10	0390 204	5/9	62.00
0369 108	5/2	93.00	0373 108	5/4	24.20	0390 205	5/9	80.00
0369 109	5/2	115.00	0373 109	5/4	35.40	0390 206	5/9	100.00
0369 110	5/2	227.00	0373 110	5/4	47.30	0390 208	5/9	154.00
0369 111	5/2	422.00	0373 111	5/4	63.00	0391 102	5/9	51.00
0369 112	5/2	752.00	0373 112	5/4	93.00	0391 103	5/9	51.00
0369 202	5/2	15.60	0373 113	5/4	308.00	0391 104	5/9	65.00
0369 203	5/2	17.10	0373 114	5/4	603.00	0391 105	5/9	83.00
0369 204	5/2	22.70	0376 102	5/5	11.10	0391 106	5/9	112.00
0369 205	5/2	34.40	0376 103	5/5	11.80	0391 108	5/9	162.00
0369 206	5/2	45.80	0376 104	5/5	14.80	0391 202	5/9	60.00
0369 207	5/2	63.00	0376 105	5/5	19.90	0391 203	5/9	67.00
0369 208	5/2	121.00	0378 103	5/6	17.10	0391 204	5/9	77.00
0369 209	5/2	168.00	0378 104	5/6	19.30	0391 205	5/9	98.00
0369 210	5/2	283.00	0378 105	5/6	25.40	0391 206	5/9	125.00
0369 211	5/2	528.00	0378 113	5/6	12.60	0391 208	5/9	204.00
0369 212	5/2	990.00	0378 114	5/6	17.10	0394 101	5/10	169.00
0370 102	5/3	9.10	0378 115	5/6	23.20	0394 104	5/10	34.40
0370 103	5/3	10.20	0379 103	5/6	25.20	0397 101	5/11	165.00
0370 104	5/3	10.40	0379 104	5/6	27.90	0410 301	5/13	21.50
0370 105	5/3	16.90	0379 105	5/6	37.60	0410 302	5/13	26.80
0370 106	5/3	22.50	0379 113	5/6	17.70	0410 303	5/13	29.00
0370 107	5/3	27.50	0379 114	5/6	19.30	0410 304	5/13	43.10
0370 108	5/3	75.00	0379 115	5/6	27.90	0411 101	5/13	20.30
0370 109	5/3	110.00	0380 103	5/7	27.90	0411 102	5/13	25.40
0370 110	5/3	154.00	0380 104	5/7	32.90	0411 103	5/13	31.80
0370 111	5/3	343.00	0380 105	5/7	40.90	0411 104	5/13	42.10
0370 112	5/3	581.00	0380 106	5/7	47.30	0411 105	5/13	60.00
0370 202	5/3	12.60	0380 107	5/7	62.00	0411 106	5/13	74.00
0370 203	5/3	15.40	0380 108	5/7	235.00	0411 107	5/13	97.00
0370 204	5/3	21.00	0380 109	5/7	418.00	0411 108	5/13	125.00
0370 205	5/3	27.90	0385 102	5/8	22.70	0411 109	5/13	133.00
0370 206	5/3	41.90	0385 103	5/8	24.20	0411 110	5/13	138.00
0370 207	5/3	51.00	0385 104	5/8	29.00	0411 301	5/13	22.50
0370 208	5/3	151.00	0385 105	5/8	43.30	0411 302	5/13	29.00
0370 209	5/3	186.00	0385 106	5/8	60.00	0411 303	5/13	32.30
0370 210	5/3	314.00	0385 108	5/8	105.00	0411 304	5/13	46.30
0370 211	5/3	486.00	0385 202	5/8	31.50	0411 305	5/13	65.00
0370 212	5/3	786.00	0385 203	5/8	35.00	0411 306	5/13	83.00
0371 102	5/3	6.90	0385 204	5/8	43.30	0411 307	5/13	105.00
0371 103	5/3	7.30	0385 205	5/8	57.00	0411 308	5/13	132.00
0371 104	5/3	8.70	0385 206	5/8	74.00	0411 309	5/13	139.00
0371 105	5/3	12.00	0385 208	5/8	109.00	0411 310	5/13	171.00
0371 106	5/3	18.20	0386 102	5/8	17.10	0412 201	5/14	31.80
0371 107	5/3	21.50	0386 103	5/8	18.50	0412 202	5/14	34.40
0371 108	5/3	54.00	0386 104	5/8	22.50	0412 203	5/14	35.40
0371 109	5/3	77.00	0386 105	5/8	27.90	0412 204	5/14	49.60
0371 110	5/3	106.00	0386 106	5/8	36.10	0413 301	5/14	13.90
0371 111	5/3	234.00	0386 108	5/8	69.00	0413 302	5/14	15.40
0371 112	5/3	401.00	0386 202	5/8	21.70	0415 301	5/15	58.00
0371 202	5/3	8.50	0386 203	5/8	24.60	0415 302	5/15	90.00
0371 203	5/3	10.20	0386 204	5/8	29.00	0415 303	5/15	122.00
0371 204	5/3	14.40	0386 205	5/8	37.60	0415 304	5/15	168.00
0371 205	5/3	19.90	0386 206	5/8	48.60	0415 305	5/15	190.00
0371 206	5/3	29.00	0386 208	5/8	96.00	0416 301	5/15	117.00
0371 207	5/3	35.40	0387 200	5/11	16.10	0416 302	5/15	153.00
0371 208	5/3	117.00	0387 201	5/11	16.10	0416 303	5/15	197.00
0371 209	5/3	146.00	0387 204	5/11	37.60	0416 304	5/15	327.00
0371 210	5/3	241.00	0388 102	5/10	18.20	0416 305	5/15	379.00
0371 211	5/3	442.00	0388 103	5/10	21.50	0420 121	5/17	14.60
0371 212	5/3	713.00	0388 104	5/10	25.80	0420 122	5/17	27.90
0372 102	5/4	6.70	0388 105	5/10	34.60	0420 124	5/17	35.00
0372 103	5/4	7.50	0388 106	5/10	49.00	0420 201	5/17	51.00
0372 104	5/4	9.80	0388 108	5/10	85.00	0420 202	5/17	54.00
0372 105	5/4	12.60	0388 202	5/10	21.50	0420 203	5/17	58.00
0372 106	5/4	17.10	0388 203	5/10	25.40	0420 206	5/17	16.50
0372 107	5/4	21.50	0388 204	5/10	30.50	0420 207	5/17	17.30
0372 108	5/4	36.10	0388 205	5/10	39.40	0420 208	5/17	17.50
0372 109	5/4	47.30	0388 206	5/10	58.00	0422 501	5/16	109.00
0372 110	5/4	64.00	0388 208	5/10	127.00	0422 502	5/16	128.00
0372 111	5/4	82.00	0388 210	5/10	481.00	0422 503	5/16	131.00
0372 112	5/4	112.00	0390 102	5/9	32.50	0422 504	5/16	140.00
0372 113	5/4	402.00	0390 103	5/9	32.50	0425 211	5/17	25.80
0372 114	5/4	685.00	0390 104	5/9	37.60	0425 212	5/17	29.00

Ref. No.	Page	List Price €	Ref. No.	Page	List Price €	Ref. No.	Page	List Price €
0425 213	5/17	32.50	0460 225	6/3	3.80	0461 539	6/6	43.30
0425 214	5/17	45.80	0460 226	6/3	8.30	0461 540	6/6	97.00
0425 701	5/16	938.00	0460 227	6/3	2.90	0461 541	6/6	4.20
0425 702	5/16	943.00	0460 228	6/3	6.90	0461 542	6/6	17.10
0425 703	5/16	960.00	0460 229	6/3	14.40	0461 543	6/6	43.30
0451 101	6/2	23.20	0460 230	6/3	23.20	0461 544	6/6	97.00
0451 102	6/2	53.00	0460 231	6/3	27.90	0461 545	6/6	4.20
0451 103	6/2	95.00	0460 232	6/3	64.00	0461 546	6/6	17.10
0451 104	6/2	132.00	0460 233	6/3	100.00	0461 547	6/6	43.30
0451 105	6/2	273.00	0460 241	6/3	1.00	0461 548	6/6	97.00
0451 106	6/2	496.00	0460 242	6/3	1.00	0461 549	6/6	4.20
0451 201	6/2	41.10	0460 243	6/3	1.40	0461 550	6/6	17.10
0451 202	6/2	94.00	0460 244	6/3	1.40	0461 551	6/6	43.30
0451 203	6/2	140.00	0460 245	6/3	3.80	0461 552	6/6	97.00
0451 204	6/2	246.00	0460 246	6/3	8.30	0461 553	6/6	4.20
0451 205	6/2	496.00	0460 247	6/3	2.90	0461 554	6/6	17.10
0451 206	6/2	896.00	0460 248	6/3	6.90	0461 555	6/6	43.30
0452 101	6/2	12.20	0460 249	6/3	14.40	0461 556	6/6	97.00
0452 103	6/2	26.00	0460 250	6/3	23.20	0461 557	6/6	4.20
0452 104	6/2	39.80	0460 251	6/3	27.90	0461 558	6/6	17.10
0452 105	6/2	66.00	0460 252	6/3	64.00	0461 559	6/6	43.30
0452 106	6/2	135.00	0460 253	6/3	100.00	0461 560	6/6	97.00
0452 107	6/2	149.00	0460 501	6/4	2.40	0464 101	6/8	59.00
0452 108	6/2	285.00	0460 502	6/4	3.80	0464 102	6/8	85.00
0452 109	6/2	511.00	0460 504	6/4	4.40	0464 103	6/8	132.00
0452 201	6/2	23.20	0460 505	6/4	9.60	0464 104	6/8	223.00
0452 203	6/2	53.00	0460 506	6/4	19.50	0464 105	6/8	399.00
0452 204	6/2	90.00	0460 507	6/4	5.10	0464 106	6/8	679.00
0452 205	6/2	144.00	0460 508	6/4	10.60	0464 107	6/8	1,042.00
0452 206	6/2	275.00	0460 509	6/4	22.10	0464 108	6/8	1,791.00
0452 207	6/2	286.00	0460 510	6/4	64.00	0464 109	6/8	2,226.00
0452 208	6/2	513.00	0460 511	6/4	101.00	0464 201	6/9	93.00
0452 209	6/2	979.00	0460 512	6/4	212.00	0464 202	6/9	127.00
0458 102	6/7	34.40	0460 521	6/4	2.40	0464 203	6/9	240.00
0458 103	6/7	41.10	0460 522	6/4	3.80	0464 204	6/9	399.00
0458 104	6/7	53.00	0460 524	6/4	4.40	0464 205	6/9	739.00
0458 105	6/7	63.00	0460 525	6/4	9.60	0464 206	6/9	1,286.00
0458 106	6/7	77.00	0460 526	6/4	19.50	0464 207	6/9	2,275.00
0458 107	6/7	87.00	0460 527	6/4	5.10	0464 208	6/9	4,057.00
0458 108	6/7	217.00	0460 528	6/4	10.60	0464 209	6/9	5,130.00
0458 109	6/7	233.00	0460 529	6/4	22.10	0465 101	6/8	29.00
0458 110	6/7	270.00	0461 501	6/5	4.20	0465 102	6/8	48.00
0458 111	6/7	421.00	0461 502	6/5	17.10	0465 103	6/8	64.00
0458 112	6/7	433.00	0461 503	6/5	43.30	0465 104	6/8	119.00
0458 113	6/7	437.00	0461 504	6/5	97.00	0465 105	6/8	240.00
0458 114	6/7	443.00	0461 505	6/5	4.20	0465 106	6/8	451.00
0458 115	6/7	454.00	0461 506	6/5	17.10	0465 107	6/8	774.00
0458 116	6/7	465.00	0461 507	6/5	43.30	0465 108	6/8	1,251.00
0458 117	6/7	596.00	0461 508	6/5	97.00	0465 109	6/8	2,167.00
0458 202	6/7	61.00	0461 509	6/5	4.20	0465 201	6/9	53.00
0458 203	6/7	78.00	0461 510	6/5	17.10	0465 202	6/9	82.00
0458 204	6/7	94.00	0461 511	6/5	43.30	0465 203	6/9	147.00
0458 205	6/7	124.00	0461 512	6/5	97.00	0465 204	6/9	230.00
0458 206	6/7	151.00	0461 513	6/5	4.20	0465 205	6/9	542.00
0458 207	6/7	176.00	0461 514	6/5	17.10	0465 206	6/9	826.00
0458 252	6/7	258.00	0461 515	6/5	43.30	0465 207	6/9	1,591.00
0458 253	6/7	269.00	0461 516	6/5	97.00	0465 208	6/9	2,343.00
0458 254	6/7	288.00	0461 517	6/5	4.20	0465 209	6/9	4,296.00
0458 255	6/7	330.00	0461 518	6/5	17.10	0466 101	6/8	19.90
0458 256	6/7	360.00	0461 519	6/5	43.30	0466 102	6/8	35.00
0458 257	6/7	427.00	0461 520	6/5	97.00	0466 103	6/8	39.80
0458 258	6/7	496.00	0461 521	6/5	4.20	0466 104	6/8	77.00
0458 291	6/7	387.00	0461 522	6/5	17.10	0466 105	6/8	104.00
0460 201	6/3	1.00	0461 523	6/5	43.30	0466 106	6/8	230.00
0460 202	6/3	1.00	0461 524	6/5	97.00	0466 107	6/8	360.00
0460 204	6/3	1.40	0461 525	6/5	4.20	0466 108	6/8	854.00
0460 205	6/3	3.80	0461 526	6/5	17.10	0466 109	6/8	1,286.00
0460 206	6/3	8.30	0461 527	6/5	43.30	0466 201	6/9	34.40
0460 207	6/3	2.90	0461 528	6/5	97.00	0466 202	6/9	60.00
0460 208	6/3	6.90	0461 529	6/5	4.20	0466 203	6/9	87.00
0460 209	6/3	14.40	0461 530	6/5	17.10	0466 204	6/9	184.00
0460 210	6/3	23.20	0461 531	6/5	43.30	0466 205	6/9	309.00
0460 211	6/3	27.90	0461 532	6/5	97.00	0466 206	6/9	513.00
0460 212	6/3	64.00	0461 533	6/6	4.20	0466 207	6/9	734.00
0460 213	6/3	100.00	0461 534	6/6	17.10	0466 208	6/9	1,365.00
0460 221	6/3	1.00	0461 535	6/6	43.30	0466 209	6/9	2,047.00
0460 222	6/3	1.00	0461 536	6/6	97.00	0467 011	6/11	581.00
0460 223	6/3	1.40	0461 537	6/6	4.20	0467 012	6/11	831.00
0460 224	6/3	1.40	0461 538	6/6	17.10	0467 013	6/11	1,082.00



Ref. No.	Page	List Price €	Ref. No.	Page	List Price €	Ref. No.	Page	List Price €
0467 014	6/11	1,393.00	0481 170	6/15	439.00	0527 111	6/19	997.00
0467 015	6/11	2,330.00	0481 184	6/15	1,027.00	0536 201	6/20	351.00
0467 016	6/11	3,240.00	0481 186	6/15	1,131.00	0536 202	6/20	393.00
0467 017	6/11	5,624.00	0481 188	6/15	1,174.00	0536 211	6/20	490.00
0467 111	6/11	428.00	0481 190	6/15	1,312.00	0536 212	6/20	579.00
0467 112	6/11	576.00	0482 101	6/13	379.00	0536 213	6/20	584.00
0467 113	6/11	769.00	0504 012	6/16	84.00	0536 220	6/20	92.00
0467 114	6/11	1,052.00	0504 013	6/16	130.00	0536 230	6/20	126.00
0467 115	6/11	1,417.00	0504 014	6/16	200.00	0544 101	6/15	311.00
0467 116	6/11	1,865.00	0504 112	6/16	59.00	0544 102	6/15	479.00
0467 117	6/11	2,955.00	0504 113	6/16	79.00	0544 103	6/15	663.00
0478 012	6/12	155.00	0504 114	6/16	130.00	0544 104	6/15	838.00
0478 015	6/12	270.00	0504 312	6/16	40.90	0544 105	6/15	1,426.00
0478 016	6/12	340.00	0504 313	6/16	60.00	0544 106	6/15	2,148.00
0478 017	6/12	440.00	0504 314	6/16	99.00	0544 107	6/15	4,098.00
0478 018	6/12	540.00	0508 011	6/17	223.00	0550 021	6/21	212.00
0478 019	6/12	670.00	0508 012	6/17	323.00	0550 022	6/21	235.00
0478 021	6/12	840.00	0508 013	6/17	498.00	0550 023	6/21	245.00
0478 024	6/12	1,200.00	0508 111	6/17	186.00	0550 024	6/21	293.00
0478 027	6/12	1,880.00	0508 112	6/17	264.00	0550 101	6/21	127.00
0478 030	6/12	2,550.00	0508 113	6/17	403.00	0550 102	6/21	157.00
0478 032	6/12	4,480.00	0512 101	6/10	9.40	0550 103	6/21	166.00
0478 033	6/12	6,220.00	0512 102	6/10	10.60	0550 104	6/21	188.00
0478 112	6/12	115.00	0512 103	6/10	12.00	0550 131	6/21	115.00
0478 115	6/12	200.00	0512 104	6/10	13.60	0550 132	6/21	137.00
0478 116	6/12	270.00	0512 105	6/10	17.70	0550 133	6/21	150.00
0478 117	6/12	340.00	0512 106	6/10	33.30	0550 134	6/21	171.00
0478 118	6/12	380.00	0512 107	6/10	59.00	0551 002	6/21	250.00
0478 119	6/12	490.00	0512 108	6/10	93.00	0551 003	6/21	290.00
0478 121	6/12	540.00	0512 201	6/10	12.20	0551 012	6/21	152.00
0478 124	6/12	900.00	0512 202	6/10	14.40	0551 013	6/21	171.00
0478 127	6/12	1,600.00	0512 203	6/10	15.00	0551 021	6/21	145.00
0478 130	6/12	2,000.00	0512 204	6/10	16.70	0556 022	6/22	398.00
0478 132	6/12	3,550.00	0512 205	6/10	19.30	0556 023	6/22	449.00
0478 133	6/12	5,000.00	0512 206	6/10	42.10	0556 024	6/22	643.00
0478 312	6/13	90.00	0512 207	6/10	77.00	0556 101	6/22	246.00
0478 315	6/13	145.00	0512 208	6/10	104.00	0556 102	6/22	287.00
0478 316	6/13	175.00	0512 209	6/10	201.00	0556 103	6/22	351.00
0478 317	6/13	210.00	0512 210	6/10	371.00	0556 104	6/22	574.00
0478 318	6/13	270.00	0512 211	6/10	468.00	0556 131	6/22	200.00
0478 319	6/13	400.00	0512 601	6/10	4.20	0556 132	6/22	246.00
0478 321	6/13	440.00	0512 602	6/10	4.20	0556 133	6/22	293.00
0478 324	6/13	630.00	0512 603	6/10	4.40	0556 134	6/22	461.00
0478 327	6/13	1,000.00	0512 604	6/10	5.50	0560 001	6/22	275.00
0478 330	6/13	1,400.00	0512 605	6/10	5.30	0563 001	6/22	374.00
0478 332	6/13	3,000.00	0512 606	6/10	7.90	0580 101	6/23	5.70
0478 333	6/13	3,600.00	0512 607	6/10	8.10	0580 111	6/23	7.70
0478 907	6/13	235.00	0512 608	6/10	12.20	0580 121	6/23	5.70
0478 908	6/13	235.00	0512 609	6/10	12.20	0580 151	6/23	2.20
0478 909	6/13	253.00	0512 610	6/10	21.50	0581 101	6/24	19.30
0478 911	6/13	264.00	0512 611	6/10	33.30	0581 103	6/24	12.60
0478 914	6/13	297.00	0513 001	6/16	61.00	0581 105	6/24	15.40
0478 917	6/13	387.00	0513 002	6/16	79.00	0581 123	6/24	9.40
0478 920	6/13	409.00	0513 011	6/16	135.00	0581 125	6/24	8.30
0478 922	6/13	643.00	0513 012	6/16	170.00	0582 110	6/24	44.70
0478 923	6/13	758.00	0520 101	6/17	120.00	0582 120	6/24	44.70
0481 023	6/14	283.00	0520 102	6/17	157.00	0582 130	6/25	44.70
0481 024	6/14	409.00	0520 103	6/17	209.00	0589 101	6/25	15.20
0481 025	6/14	614.00	0520 104	6/17	291.00	0589 103	6/25	46.30
0481 028	6/14	1,020.00	0520 105	6/17	397.00	0590 101	6/25	1.60
0481 030	6/14	1,165.00	0522 101	6/18	139.00	0590 111	6/25	58.00
0481 034	6/14	1,923.00	0522 102	6/18	224.00	0590 151	6/26	3.10
0481 043	6/14	240.00	0522 103	6/18	323.00	0595 101	6/26	18.50
0481 044	6/14	351.00	0522 111	6/18	15.20	0595 251	6/26	82.00
0481 045	6/14	521.00	0522 112	6/18	18.50	0597 301	1/47, 6/26	157.00
0481 048	6/14	875.00	0522 113	6/18	22.70	0597 305	1/47, 6/27	157.00
0481 050	6/14	1,109.00	0524 101	6/18	167.00	0598 101	6/27	36.60
0481 054	6/14	1,748.00	0524 102	6/18	250.00	0598 103	6/27	46.30
0481 103	6/14	206.00	0524 103	6/18	375.00	0598 105	6/27	44.20
0481 104	6/14	298.00	0525 101	6/19	108.00	0598 601	6/27	47.30
0481 105	6/14	455.00	0525 102	6/19	115.00	0599 101	6/27	39.40
0481 108	6/14	758.00	0525 103	6/19	122.00	0599 102	6/27	53.00
0481 110	6/14	1,009.00	0527 101	6/19	305.00	0599 151	6/27	6.30
0481 114	6/14	1,604.00	0527 102	6/19	423.00	0599 152	6/27	6.30
0481 160	6/15	317.00	0527 104	6/19	600.00	0600 101	6/28	23.20
0481 161	6/15	328.00	0527 105	6/19	838.00	0600 102	6/28	29.00
0481 162	6/15	346.00	0527 107	6/19	362.00	0600 103	6/28	31.10
0481 165	6/15	369.00	0527 108	6/19	504.00	0600 111	6/28	49.40
0481 167	6/15	387.00	0527 110	6/19	770.00	0600 112	6/28	65.00

Ref. No.	Page	List Price €
0600 113	6/28	137.00
0600 114	6/28	212.00
0600 115	6/28	341.00
0601 103	6/28	73.00
0601 120	6/28	62.00
0604 002	6/28	6.10
0604 004	6/28	6.70
0604 006	6/28	6.70
0604 013	6/29	40.60
0604 014	6/29	40.60
0604 015	6/29	40.60
0604 016	6/29	40.60
0604 017	6/29	40.60
0604 018	6/29	30.90
0604 019	6/29	30.90
0604 020	6/29	30.90
0604 021	6/29	30.90
0604 022	6/29	30.90
0604 023	6/29	30.90
0604 024	6/29	30.90
0604 025	6/29	30.90
0604 026	6/29	30.90
0604 027	6/29	30.90
0604 028	6/29	30.90
0604 029	6/29	30.90
0604 030	6/29	30.90
0604 031	6/29	30.90
0604 032	6/29	30.90
0604 033	6/29	30.90
0604 034	6/29	30.90
0604 035	6/29	30.90
0604 036	6/29	30.90
0604 037	6/29	32.50
0604 038	6/29	32.50
0604 039	6/29	32.50
0604 040	6/29	32.50
0604 041	6/29	32.50
0604 042	6/29	32.50
0604 043	6/29	32.50
0604 044	6/29	32.50
0604 045	6/29	32.50
0604 046	6/29	32.50
0604 047	6/29	34.20
0604 048	6/29	34.20
0604 049	6/29	34.20
0604 050	6/29	34.20
0604 051	6/29	34.20
0604 052	6/29	34.20
0604 053	6/29	34.20
0604 054	6/29	34.20
0604 055	6/29	34.20
0604 056	6/29	34.20
0604 057	6/29	35.70
0604 058	6/29	35.70
0604 059	6/29	35.70
0604 060	6/29	35.70
0604 061	6/29	35.70
0604 062	6/29	35.70
0604 063	6/29	35.70
0604 064	6/29	35.70
0604 065	6/29	35.70
0604 066	6/29	35.70
0604 067	6/29	38.90
0604 068	6/29	38.90
0604 069	6/29	38.90
0604 070	6/29	38.90
0604 071	6/29	38.90
0604 072	6/29	38.90
0604 073	6/29	38.90
0604 074	6/29	38.90
0604 075	6/29	38.90
0604 076	6/29	38.90
0604 077	6/29	47.10
0604 078	6/29	47.10
0604 079	6/29	47.10
0604 080	6/29	47.10
0604 081	6/29	47.10
0604 082	6/29	47.10
0604 083	6/29	47.10

Ref. No.	Page	List Price €
0604 084	6/29	47.10
0604 085	6/29	47.10
0604 086	6/29	47.10
0604 087	6/29	51.00
0604 088	6/29	53.00
0604 089	6/29	56.00
0604 090	6/29	64.00
0604 091	6/29	64.00
0604 092	6/29	64.00
0604 093	6/29	64.00
0604 094	6/29	64.00
0604 095	6/29	64.00
0604 096	6/29	64.00
0604 202	6/28	8.10
0604 204	6/28	10.00
0604 206	6/28	10.00
0605 101	6/30	2.20
0605 102	6/30	2.00
0605 103	6/30	2.00
0605 104	6/30	2.00
0605 105	6/30	3.10
0605 106	6/30	3.30
0605 107	6/30	4.60
0605 108	6/30	2.70
0605 109	6/30	2.90
0605 110	6/30	2.70
0605 111	6/30	2.70
0605 112	6/30	3.10
0606 121	6/30	1.40
0606 123	6/30	1.40
0606 127	6/30	1.40
0606 130	6/30	2.20
0606 131	6/30	5.50
0606 132	6/30	2.70
0606 133	6/30	5.10
0606 136	6/30	4.60
0607 201	6/30	3.50
0607 202	6/30	5.50
0607 203	6/30	7.90
0607 401	6/30	5.90
0607 402	6/30	7.30
0607 403	6/30	10.40
0611 180	6/31	130.00
0611 190	6/31	170.00
0611 195	6/31	2.30
0611 300	6/31	67.00
0611 501	6/31	26.50
0611 502	6/31	22.00
0611 503	6/31	7.60
0611 504	6/31	7.60
0611 505	6/31	5.80
0611 506	6/31	6.00
0611 507	6/31	6.00
0611 508	6/31	6.00
0611 509	6/31	6.00
0611 510	6/31	5.10
0611 512	6/31	5.10
0611 515	6/31	5.10
0611 518	6/31	6.70
0611 520	6/31	5.10
0611 525	6/31	5.10
0611 530	6/31	5.10
0611 535	6/31	5.10
0611 540	6/31	6.00
0611 545	6/31	6.00
0611 550	6/31	6.00
0611 552	6/31	7.60
0611 554	6/31	7.60
0611 556	6/31	7.60
0611 558	6/31	7.60
0611 560	6/31	7.60
0611 562	6/31	7.60
0611 564	6/31	7.80
0611 566	6/31	8.20
0611 568	6/31	8.20
0611 570	6/31	8.20
0613 107	6/32	61.00
0613 109	6/32	32.90
0613 114	6/32	23.20

Ref. No.	Page	List Price €
0613 116	6/32	23.20
0613 118	6/32	23.20
0613 120	6/32	15.80
0613 122	6/32	15.80
0613 126	6/32	15.80
0613 128	6/32	15.80
0613 130	6/32	16.30
0613 134	6/32	16.30
0613 138	6/32	16.30
0613 142	6/32	16.30
0613 146	6/32	18.20
0613 150	6/32	18.20
0613 152	6/32	29.00
0613 154	6/32	29.00
0613 156	6/32	29.00
0613 158	6/32	29.00
0613 160	6/32	29.00
0613 207	6/32	87.00
0613 209	6/32	47.30
0613 214	6/32	33.30
0613 216	6/32	33.30
0613 218	6/32	33.30
0613 220	6/32	22.70
0613 222	6/32	22.70
0613 226	6/32	22.70
0613 228	6/32	22.70
0613 230	6/32	23.60
0613 232	6/32	23.60
0613 234	6/32	23.60
0613 236	6/32	23.60
0613 238	6/32	23.60
0613 240	6/32	23.60
0613 242	6/32	23.60
0613 244	6/32	25.80
0613 246	6/32	25.80
0613 248	6/32	25.80
0613 250	6/32	25.80
0613 252	6/32	41.90
0613 254	6/32	41.90
0613 256	6/32	41.90
0613 258	6/32	41.90
0613 260	6/32	41.90
0613 309	6/32	85.00
0613 318	6/32	51.00
0613 330	6/32	48.00
0613 334	6/32	48.00
0613 338	6/32	61.00
0613 342	6/32	61.00
0613 346	6/32	69.00
0613 350	6/32	79.00
0613 352	6/32	94.00
0613 354	6/32	94.00
0613 356	6/32	113.00
0613 358	6/32	113.00
0613 360	6/32	129.00
0613 412	6/32	96.00
0613 418	6/32	78.00
0613 424	6/32	78.00
0613 430	6/32	74.00
0613 434	6/32	74.00
0613 438	6/32	92.00
0613 440	6/32	92.00
0613 442	6/32	92.00
0613 446	6/32	102.00
0613 450	6/32	120.00
0613 512	6/32	95.00
0613 518	6/32	77.00
0613 524	6/32	77.00
0613 530	6/32	73.00
0613 534	6/32	73.00
0613 538	6/32	90.00
0613 540	6/32	90.00
0613 542	6/32	90.00
0613 546	6/32	101.00
0613 550	6/32	119.00
0613 607	6/33	61.00
0613 609	6/33	32.90
0613 614	6/33	23.20
0613 616	6/33	23.20



Ref. No.	Page	List Price €	Ref. No.	Page	List Price €	Ref. No.	Page	List Price €
0613 618	6/33	23.20	0627 238	6/34	807.00	0633 220	6/36	138.00
0613 620	6/33	15.80	0627 239	6/34	954.00	0633 805	6/39	304.00
0613 622	6/33	15.80	0627 241	6/34	1,096.00	0633 808	6/39	407.00
0613 626	6/33	15.80	0627 242	6/34	1,295.00	0633 810	6/39	247.00
0613 628	6/33	15.80	0627 243	6/34	1,511.00	0633 833	6/39	505.00
0613 630	6/33	16.30	0628 119	6/34	21.70	0633 834	6/39	674.00
0613 632	6/33	16.30	0628 174	6/34	17.30	0633 836	6/39	1,204.00
0613 634	6/33	16.30	0628 176	6/34	19.90	0634 014	6/40	4,105.00
0613 636	6/33	16.30	0628 178	6/34	19.90	0634 016	6/40	3,382.00
0613 638	6/33	16.30	0628 180	6/34	19.90	0634 017	6/40	2,210.00
0613 640	6/33	16.30	0628 182	6/34	19.90	0634 020	6/40	1,160.00
0613 642	6/33	16.30	0628 184	6/34	19.90	0634 114	6/40	3,613.00
0613 644	6/33	18.20	0628 186	6/34	19.90	0634 116	6/40	2,953.00
0613 646	6/33	18.20	0628 188	6/34	19.90	0634 117	6/40	1,981.00
0613 648	6/33	18.20	0628 190	6/34	23.80	0634 120	6/40	1,008.00
0613 650	6/33	18.20	0628 210	6/34	23.80	0634 514	6/41	5,732.00
0613 652	6/33	29.00	0628 220	6/34	23.80	0634 516	6/41	4,565.00
0613 654	6/33	29.00	0628 221	6/34	28.60	0634 517	6/41	2,722.00
0613 656	6/33	29.00	0628 222	6/34	28.60	0634 520	6/41	1,653.00
0613 658	6/33	29.00	0628 223	6/34	28.60	0634 614	6/41	4,798.00
0613 660	6/33	29.00	0628 226	6/34	30.70	0634 616	6/41	3,813.00
0613 709	6/33	45.40	0628 229	6/34	38.20	0634 617	6/41	2,275.00
0613 718	6/33	27.50	0628 230	6/34	134.00	0634 620	6/41	1,379.00
0613 730	6/33	25.80	0628 231	6/34	134.00	0636 301	6/42	729.00
0613 734	6/33	25.80	0628 232	6/34	134.00	0636 321	6/42	221.00
0613 738	6/33	32.50	0628 233	6/34	134.00	0636 322	6/42	221.00
0613 742	6/33	32.50	0628 235	6/34	206.00	0636 323	6/42	273.00
0613 746	6/33	36.60	0628 236	6/34	238.00	0636 324	6/42	273.00
0613 750	6/33	41.90	0628 237	6/34	303.00	0636 325	6/42	273.00
0613 752	6/33	51.00	0628 238	6/34	389.00	0636 326	6/42	333.00
0613 754	6/33	51.00	0628 239	6/34	470.00	0636 327	6/42	333.00
0613 756	6/33	61.00	0628 241	6/34	583.00	0636 328	6/42	333.00
0613 758	6/33	61.00	0628 242	6/34	700.00	0636 329	6/42	333.00
0613 760	6/33	67.00	0628 243	6/34	871.00	0636 341	6/42	928.00
0613 812	6/33	51.00	0633 001	6/38	282.00	0636 342	6/42	928.00
0613 818	6/33	40.90	0633 014	6/35	798.00	0636 343	6/42	1,176.00
0613 824	6/33	40.90	0633 016	6/35	729.00	0636 344	6/42	1,176.00
0613 830	6/33	38.70	0633 018	6/35	474.00	0636 345	6/42	1,176.00
0613 834	6/33	38.70	0633 020	6/35	346.00	0636 346	6/42	1,447.00
0613 838	6/33	48.40	0633 114	6/35	613.00	0636 347	6/42	1,447.00
0613 840	6/33	48.40	0633 116	6/35	467.00	0636 348	6/42	1,447.00
0613 842	6/33	48.40	0633 118	6/35	289.00	0636 349	6/42	1,447.00
0613 846	6/33	56.00	0633 120	6/35	211.00	0636 351	6/42	1,186.00
0613 850	6/33	65.00	0633 130	6/36	1,034.00	0636 352	6/42	1,078.00
0613 860	6/33	106.00	0633 131	6/36	1,200.00	0636 372	6/42	649.00
0613 912	6/33	51.00	0633 132	6/36	1,553.00	0636 373	6/42	649.00
0613 918	6/33	40.40	0633 133	6/36	3,067.00	0636 374	6/42	855.00
0613 924	6/33	40.40	0633 136	6/37	144.00	0636 375	6/42	855.00
0613 930	6/33	38.40	0633 137	6/37	163.00	0636 376	6/42	855.00
0613 934	6/33	38.40	0633 138	6/37	194.00	0636 377	6/42	1,035.00
0613 938	6/33	48.00	0633 139	6/37	177.00	0636 378	6/42	1,174.00
0613 940	6/33	48.00	0633 140	6/37	211.00	0636 379	6/42	1,174.00
0613 942	6/33	48.00	0633 141	6/37	244.00	0636 380	6/42	1,174.00
0613 946	6/33	56.00	0633 142	6/37	277.00	0636 392	6/43	11.90
0613 950	6/33	64.00	0633 143	6/37	300.00	0636 393	6/43	13.60
0627 119	6/34	32.50	0633 144	6/37	350.00	0636 394	6/43	25.80
0627 174	6/34	26.00	0633 145	6/37	489.00	0636 395	6/43	33.00
0627 176	6/34	25.80	0633 150	6/37	165.00	0636 396	6/43	38.10
0627 178	6/34	25.80	0633 151	6/37	165.00	0637 103	6/44	27.90
0627 180	6/34	25.80	0633 152	6/37	180.00	0637 104	6/44	27.90
0627 182	6/34	25.80	0633 153	6/37	220.00	0637 105	6/44	27.90
0627 184	6/34	25.80	0633 154	6/37	310.00	0637 106	6/44	20.30
0627 186	6/34	25.80	0633 155	6/37	402.00	0637 107	6/44	20.30
0627 188	6/34	25.80	0633 170	6/37	174.00	0637 108	6/44	18.20
0627 190	6/34	25.80	0633 171	6/37	72.00	0637 109	6/44	18.20
0627 210	6/34	29.20	0633 172	6/37	293.00	0637 110	6/44	18.20
0627 220	6/34	29.20	0633 173	6/37	95.00	0637 111	6/44	17.10
0627 221	6/34	35.00	0633 174	6/38	163.00	0637 112	6/44	17.10
0627 222	6/34	35.00	0633 175	6/38	191.00	0637 113	6/44	18.20
0627 223	6/34	35.00	0633 176	6/38	301.00	0637 114	6/44	18.20
0627 226	6/34	38.90	0633 177	6/38	356.00	0637 115	6/44	19.30
0627 229	6/34	53.00	0633 178	6/38	174.00	0637 116	6/44	20.30
0627 230	6/34	161.00	0633 179	6/38	221.00	0637 117	6/44	20.30
0627 231	6/34	161.00	0633 180	6/38	264.00	0637 118	6/44	21.50
0627 232	6/34	161.00	0633 181	6/38	393.00	0637 119	6/44	22.50
0627 233	6/34	161.00	0633 182	6/38	128.00	0637 120	6/44	22.50
0627 235	6/34	238.00	0633 214	6/36	388.00	0637 121	6/44	23.20
0627 236	6/34	297.00	0633 216	6/36	306.00	0637 122	6/44	23.20
0627 237	6/34	441.00	0633 218	6/36	210.00	0637 123	6/44	24.20

Ref. No.	Page	List Price €	Ref. No.	Page	List Price €	Ref. No.	Page	List Price €
0637 124	6/44	25.20	0650 111	6/47	2,588.00	0656 381	6/48	308.00
0637 125	6/44	25.20	0650 112	6/47	2,766.00	0656 382	6/48	319.00
0637 126	6/44	25.20	0650 113	6/47	2,945.00	0656 383	6/48	348.00
0637 127	6/44	26.40	0650 114	6/47	3,182.00	0656 384	6/48	376.00
0637 128	6/44	27.00	0650 115	6/47	4,065.00	0656 385	6/48	404.00
0637 129	6/44	27.90	0650 116	6/47	4,240.00	0656 386	6/48	434.00
0637 130	6/44	27.90	0650 117	6/47	4,425.00	0656 387	6/48	463.00
0637 131	6/44	29.00	0650 118	6/47	4,605.00	0656 388	6/48	491.00
0637 132	6/44	30.10	0650 119	6/47	4,785.00	0656 389	6/48	521.00
0637 133	6/44	30.10	0656 311	6/48	45.10	0656 390	6/48	548.00
0637 134	6/44	31.10	0656 312	6/48	45.10	0656 391	6/48	578.00
0637 135	6/44	31.10	0656 313	6/48	44.10	0656 392	6/48	606.00
0637 136	6/44	34.40	0656 314	6/48	43.10	0656 393	6/48	638.00
0637 137	6/44	35.00	0656 315	6/48	43.10	0656 394	6/48	667.00
0637 138	6/44	36.10	0656 316	6/48	43.10	0656 395	6/48	699.00
0637 139	6/44	36.10	0656 317	6/48	43.10	0656 396	6/48	730.00
0637 140	6/44	36.80	0656 318	6/48	43.10	0656 397	6/48	761.00
0637 141	6/44	37.60	0656 319	6/48	44.10	0656 398	6/48	792.00
0637 142	6/44	38.70	0656 320	6/48	45.10	0656 399	6/48	822.00
0637 144	6/44	39.80	0656 321	6/48	45.80	0658 001	6/49	133.00
0637 146	6/44	41.10	0656 322	6/48	45.80	0658 002	6/49	128.00
0637 147	6/44	51.00	0656 323	6/48	46.90	0658 003	6/49	112.00
0637 148	6/44	44.10	0656 324	6/48	46.90	0658 004	6/49	97.00
0637 149	6/44	45.10	0656 325	6/48	48.00	0658 005	6/49	86.00
0637 150	6/45	45.80	0656 326	6/48	48.00	0658 006	6/49	86.00
0637 151	6/45	48.00	0656 327	6/48	49.00	0658 007	6/49	79.00
0637 152	6/45	49.00	0656 328	6/48	51.00	0658 008	6/49	74.00
0637 154	6/45	51.00	0656 329	6/48	51.00	0658 009	6/49	61.00
0637 155	6/45	53.00	0656 330	6/48	51.00	0658 010	6/49	60.00
0637 156	6/45	56.00	0656 331	6/48	53.00	0658 011	6/49	57.00
0637 157	6/45	60.00	0656 332	6/48	54.00	0658 012	6/49	56.00
0637 158	6/45	62.00	0656 333	6/48	55.00	0658 013	6/49	54.00
0637 159	6/45	65.00	0656 334	6/48	56.00	0658 014	6/49	55.00
0637 160	6/45	65.00	0656 335	6/48	56.00	0658 015	6/49	56.00
0637 161	6/45	72.00	0656 336	6/48	57.00	0658 016	6/49	57.00
0637 162	6/45	73.00	0656 337	6/48	53.00	0658 017	6/49	60.00
0637 163	6/45	75.00	0656 338	6/48	60.00	0658 018	6/49	94.00
0637 164	6/45	79.00	0656 339	6/48	60.00	0658 019	6/49	64.00
0637 165	6/45	83.00	0656 340	6/48	61.00	0658 020	6/49	69.00
0637 166	6/45	84.00	0656 341	6/48	61.00	0658 021	6/49	75.00
0637 167	6/45	86.00	0656 342	6/48	62.00	0658 022	6/49	80.00
0637 168	6/45	88.00	0656 343	6/48	63.00	0658 023	6/49	85.00
0637 169	6/45	93.00	0656 344	6/48	64.00	0658 024	6/49	90.00
0637 170	6/45	94.00	0656 345	6/48	65.00	0658 025	6/49	101.00
0637 171	6/45	97.00	0656 346	6/48	69.00	0658 026	6/49	111.00
0637 172	6/45	99.00	0656 347	6/48	73.00	0658 027	6/49	123.00
0637 173	6/45	102.00	0656 348	6/48	75.00	0658 028	6/49	134.00
0637 174	6/45	104.00	0656 349	6/48	77.00	0658 029	6/49	146.00
0637 190	6/45	133.00	0656 350	6/48	79.00	0658 030	6/49	161.00
0649 201	6/46	64.00	0656 351	6/48	81.00	0658 031	6/49	237.00
0649 202	6/46	64.00	0656 352	6/48	84.00	0658 032	6/49	257.00
0649 203	6/46	64.00	0656 353	6/48	86.00	0658 033	6/49	277.00
0649 204	6/46	66.00	0656 354	6/48	93.00	0658 034	6/49	296.00
0649 205	6/46	66.00	0656 355	6/48	97.00	0658 035	6/49	328.00
0649 206	6/46	70.00	0656 356	6/48	101.00	0658 036	6/49	348.00
0649 207	6/46	70.00	0656 357	6/48	104.00	0658 037	6/49	381.00
0649 208	6/46	73.00	0656 358	6/48	111.00	0658 038	6/49	405.00
0649 209	6/46	73.00	0656 359	6/48	119.00	0658 090	6/49	226.00
0649 210	6/46	77.00	0656 360	6/48	122.00	0658 501	6/50	134.00
0649 211	6/46	77.00	0656 361	6/48	127.00	0658 502	6/50	127.00
0649 212	6/46	84.00	0656 362	6/48	131.00	0658 503	6/50	118.00
0649 213	6/46	84.00	0656 363	6/48	138.00	0658 504	6/50	86.00
0649 215	6/46	92.00	0656 364	6/48	143.00	0658 505	6/50	78.00
0649 216	6/46	106.00	0656 365	6/48	151.00	0658 506	6/50	78.00
0649 217	6/46	106.00	0656 366	6/48	161.00	0658 507	6/50	67.00
0649 219	6/46	126.00	0656 367	6/48	171.00	0658 508	6/50	58.00
0649 220	6/46	164.00	0656 368	6/48	177.00	0658 509	6/50	48.00
0649 222	6/46	189.00	0656 369	6/48	185.00	0658 510	6/50	45.10
0649 223	6/46	189.00	0656 370	6/48	196.00	0658 511	6/50	44.10
0650 101	6/47	820.00	0656 371	6/48	206.00	0658 512	6/50	44.10
0650 102	6/47	896.00	0656 372	6/48	212.00	0658 513	6/50	44.10
0650 103	6/47	984.00	0656 373	6/48	223.00	0658 514	6/50	44.10
0650 104	6/47	1,079.00	0656 374	6/48	234.00	0658 515	6/50	45.10
0650 105	6/47	1,554.00	0656 375	6/48	244.00	0658 516	6/50	48.00
0650 106	6/47	1,758.00	0656 376	6/48	256.00	0658 517	6/50	53.00
0650 107	6/47	2,017.00	0656 377	6/48	266.00	0658 518	6/50	60.00
0650 108	6/47	2,100.00	0656 378	6/48	276.00	0658 519	6/50	62.00
0650 109	6/47	2,228.00	0656 379	6/48	287.00	0658 520	6/50	67.00
0650 110	6/47	2,411.00	0656 380	6/48	297.00	0658 521	6/50	75.00



Ref. No.	Page	List Price €	Ref. No.	Page	List Price €	Ref. No.	Page	List Price €
0658 522	6/50	86.00	0703 104	3/8	121.00	0710 196	3/17	6.70
0658 523	6/50	95.00	0703 107	3/8	243.00	0710 197	3/17	1.00
0658 524	6/50	103.00	0704 105	3/9	62.00	0710 261	3/15	21.00
0658 525	6/50	111.00	0704 106	3/9	77.00	0710 262	3/15	33.90
0658 526	6/50	124.00	0704 109	3/9	100.00	0710 263	3/15	40.90
0658 527	6/50	134.00	0704 110	3/9	129.00	0710 264	3/15	39.60
0658 528	6/50	148.00	0705 102	3/11	96.00	0710 265	3/15	18.20
0658 529	6/50	158.00	0705 104	3/11	96.00	0710 267	3/16	9.60
0658 530	6/50	172.00	0705 105	3/11	100.00	0710 268	3/16	9.60
0658 531	6/50	188.00	0705 107	3/11	102.00	0710 292	3/17	43.10
0658 532	6/50	198.00	0705 109	3/11	124.00	0710 297	3/17	4.00
0658 533	6/50	210.00	0706 102	3/11	62.00	0710 367	3/16	7.50
0658 534	6/50	227.00	0707 102	3/9	110.00	0710 368	3/16	7.50
0658 535	6/50	240.00	0707 102	3/9	94.00	0710 397	3/17	5.30
0658 536	6/50	257.00	0708 101	3/7	77.00	0710 467	3/16	7.50
0658 537	6/50	275.00	0708 102	3/7	49.00	0710 468	3/16	7.50
0658 538	6/50	291.00	0708 103	3/7	58.00	0710 497	3/17	5.30
0658 590	6/51	226.00	0708 104	3/7	40.40	0712 121	3/12	139.00
0658 601	6/50	134.00	0708 105	3/7	49.00	0712 124	3/12	170.00
0658 602	6/50	127.00	0708 106	3/7	65.00	0715 101	3/18	72.00
0658 603	6/50	118.00	0709 101	3/12	92.00	0715 103	3/18	81.00
0658 604	6/50	86.00	0709 108	3/12	110.00	0715 201	3/18	113.00
0658 605	6/50	78.00	0710 101	3/13	45.10	0715 303	3/18	101.00
0658 606	6/50	78.00	0710 102	3/13	5.90	0715 305	3/18	96.50
0658 607	6/50	67.00	0710 103	3/13	6.10	0715 307	3/18	144.00
0658 608	6/50	58.00	0710 104	3/13	9.40	0715 903	3/18	10.90
0658 609	6/50	48.00	0710 105	3/13	9.40	0715 907	3/18	10.90
0658 610	6/50	45.10	0710 111	3/14	4.00	0715 915	3/18	15.20
0658 611	6/50	44.10	0710 112	3/14	4.00	0715 917	3/18	12.00
0658 612	6/50	44.10	0710 113	3/14	4.00	0715 919	3/18	12.00
0658 613	6/50	44.10	0710 114	3/14	4.00	0715 921	3/18	16.70
0658 614	6/50	44.10	0710 115	3/14	4.00	0715 922	3/18	12.60
0658 615	6/50	45.10	0710 116	3/14	4.00	0715 923	3/18	12.50
0658 616	6/50	48.00	0710 117	3/14	4.00	0715 925	3/18	15.40
0658 617	6/50	53.00	0710 118	3/14	4.00	0715 926	3/18	12.00
0658 618	6/50	61.00	0710 119	3/14	4.00	0715 929	3/18	12.00
0658 619	6/50	62.00	0710 120	3/14	4.00	0715 940	3/18	2.20
0658 620	6/50	67.00	0710 121	3/14	4.00	0715 950	3/19	22.70
0658 621	6/50	75.00	0710 122	3/14	4.00	0715 955	3/19	14.40
0658 622	6/50	86.00	0710 123	3/14	4.00	0716 101	3/19	125.00
0658 623	6/50	95.00	0710 124	3/14	4.00	0716 102	3/19	184.00
0658 624	6/50	103.00	0710 125	3/14	4.00	0716 105	3/19	164.00
0658 625	6/50	111.00	0710 126	3/14	4.00	0716 111	3/19	242.00
0658 626	6/50	124.00	0710 127	3/14	4.00	0716 192	3/19	53.00
0658 627	6/50	134.00	0710 128	3/14	4.00	0716 194	3/19	65.00
0658 628	6/50	148.00	0710 129	3/14	4.00	0716 196	3/19	85.00
0658 629	6/50	158.00	0710 161	3/15	3.10	0718 101	3/20	45.80
0658 630	6/50	172.00	0710 162	3/15	4.00	0718 104	3/20	95.00
0658 631	6/50	188.00	0710 163	3/15	4.60	0718 105	3/20	108.00
0658 632	6/50	198.00	0710 164	3/15	4.60	0718 106	3/20	163.00
0658 633	6/50	210.00	0710 165	3/15	5.70	0718 108	3/20	140.00
0658 634	6/50	227.00	0710 166	3/15	4.20	0718 109	3/20	161.00
0658 635	6/50	240.00	0710 167	3/16	2.90	0718 110	3/20	180.00
0658 636	6/50	257.00	0710 168	3/16	2.90	0718 112	3/20	90.00
0658 637	6/50	275.00	0710 169	3/16	5.70	0718 113	3/20	104.00
0658 638	6/50	291.00	0710 170	3/16	5.70	0718 115	3/20	108.00
0658 690	6/51	226.00	0710 171	3/16	5.70	0720 102	3/21	143.00
0691 731	3/6	339.00	0710 172	3/16	5.70	0720 103	3/21	204.00
0691 733	3/6	389.00	0710 173	3/16	5.70	0721 100	3/22	460.00
0691 735	3/6	846.00	0710 174	3/16	5.70	0721 101	3/22	460.00
0691 737	3/6	954.00	0710 175	3/16	5.70	0721 120	3/22	476.00
0691 741	3/6	419.00	0710 176	3/16	5.70	0721 121	3/22	476.00
0691 743	3/6	460.00	0710 177	3/16	5.70	0721 122	3/22	476.00
0691 745	3/6	938.00	0710 178	3/16	5.70	0721 123	3/22	476.00
0691 747	3/6	1,084.00	0710 179	3/16	5.70	0721 124	3/22	492.00
0691 751	3/6	487.00	0710 180	3/16	5.70	0721 125	3/22	492.00
0691 753	3/6	538.00	0710 181	3/16	5.70	0721 126	3/22	492.00
0700 100	3/10	53.00	0710 182	3/16	5.70	0721 127	3/22	492.00
0700 101	3/10	53.00	0710 183	3/16	5.70	0721 140	3/23	130.00
0700 102	3/10	40.90	0710 184	3/16	5.70	0721 141	3/23	460.00
0700 104	3/10	46.90	0710 185	3/16	5.70	0721 142	3/23	460.00
0701 101	3/7	36.10	0710 186	3/16	5.70	0721 143	3/23	460.00
0701 102	3/7	44.30	0710 187	3/16	5.70	0721 144	3/23	460.00
0701 103	3/8	19.90	0710 188	3/16	5.70	0721 145	3/23	460.00
0701 106	3/8	21.00	0710 189	3/16	5.70	0721 148	3/23	700.00
0701 110	3/8	35.70	0710 192	3/17	6.10	0721 149	3/23	700.00
0701 111	3/8	41.10	0710 193	3/17	3.10	0721 731	3/24	492.00
0702 106	3/10	54.00	0710 194	3/17	4.20	0721 732	3/24	492.00
0703 101	3/8	87.00	0710 195	3/17	1.00	0721 733	3/24	492.00

Ref. No.	Page	List Price €
0721 734	3/24	492.00
0721 738	3/24	627.00
0721 739	3/24	627.00
0721 740	3/24	865.00
0721 741	3/25	492.00
0721 745	3/25	627.00
0721 746	3/25	627.00
0721 747	3/25	865.00
0721 785	3/25	131.00
0721 786	3/25	131.00
0724 101	3/14	43.10
0726 122	3/26	116.00
0726 123	3/26	116.00
0726 124	3/26	116.00
0726 130	3/26	212.00
0726 300	3/26	273.00
0726 301	3/26	222.00
0726 302	3/26	632.00
0726 303	3/26	468.00
0726 304	3/26	350.00
0726 305	3/26	362.00
0726 306	3/26	250.00
0726 310	3/26	492.00
0726 311	3/26	502.00
0726 312	3/26	825.00
0726 313	3/26	600.00
0726 500	3/26	522.00
0726 501	3/26	688.00
0726 502	3/26	1,072.00
0726 510	3/26	777.00
0726 511	3/26	739.00
0726 512	3/26	1,347.00
0726 513	3/26	913.00
0728 105	3/27	295.00
0728 106	3/27	287.00
0728 107	3/27	323.00
0728 108	3/27	452.00
0728 109	3/27	654.00
0728 110	3/27	1,607.00
0728 201	3/27	761.00
0728 202	3/27	529.00
0728 203	3/27	501.00
0728 204	3/27	340.00
0728 205	3/27	367.00
0728 206	3/27	352.00
0728 207	3/27	402.00
0728 208	3/27	522.00
0728 209	3/27	709.00
0728 210	3/27	1,665.00
0728 910	3/27	963.00
0728 915	3/27	952.00
0728 920	3/27	1,493.00
0735 101	3/28	366.00
0735 102	3/28	330.00
0735 103	3/28	384.00
0736 101	3/28	845.00
0736 102	3/28	912.00
0736 103	3/28	977.00
0737 101	3/29	823.00
0737 121	3/29	82.00
0737 122	3/29	82.00
0737 123	3/29	82.00
0737 124	3/29	82.00
0739 102	3/30	1,598.00
0739 121	3/32	82.00
0739 122	3/32	92.00
0739 123	3/32	85.00
0739 124	3/31	96.00
0739 125	3/31	100.00
0739 126	3/31	57.00
0739 127	3/31	91.00
0739 128	3/31	57.00
0739 129	3/31	111.00
0739 130	3/31	92.00
0739 131	3/31	100.00
0739 132	3/31	133.00
0739 164	3/32	34.60
0739 165	3/32	42.80
0739 170	3/32	171.00

Ref. No.	Page	List Price €
0741 101	3/33	1,672.00
0741 112	3/33	233.00
0741 114	3/33	247.00
0741 116	3/33	377.00
0741 122	3/36	242.00
0741 124	3/36	291.00
0741 132	3/36	79.00
0741 134	3/37	137.00
0741 136	3/36	225.00
0741 140	3/37	172.00
0741 141	3/37	97.00
0741 142	3/37	97.00
0741 143	3/37	97.00
0741 144	3/37	97.00
0741 145	3/37	97.00
0741 146	3/37	97.00
0741 147	3/37	97.00
0741 148	3/37	97.00
0741 149	3/37	97.00
0741 160	3/37	196.00
0741 161	3/37	196.00
0741 162	3/37	196.00
0741 163	3/37	196.00
0741 164	3/37	196.00
0741 165	3/37	196.00
0741 166	3/37	196.00
0741 167	3/37	196.00
0741 168	3/37	196.00
0741 170	3/34	154.00
0741 172	3/35	184.00
0741 174	3/35	150.00
0741 176	3/35	103.00
0741 178	3/34	103.00
0741 179	3/34	103.00
0741 180	3/34	103.00
0741 182	3/34	171.00
0741 184	3/37	583.00
0750 101	3/38	93.00
0750 102	3/38	167.00
0750 111	3/38	53.00
0750 112	3/38	98.00
0750 121	3/38	32.30
0750 122	3/38	59.00
0750 123	3/38	84.00
0750 601	3/38	22.50
0751 103	3/40	106.00
0751 104	3/40	123.00
0752 101	3/39	129.00
0752 103	3/39	165.00
0754 101	3/39	88.00
0756 101	3/40	53.00
0763 100	3/43	251.00
0770 102	3/41	158.00
0770 103	3/41	200.00
0770 201	3/41	202.00
0770 205	3/41	313.00
0772 024	3/42	681.00
0780 001	3/45	337.00
0780 002	3/45	374.00
0780 003	3/45	583.00
0780 021	3/44	79.00
0780 023	3/44	120.00
0780 032	3/45	145.00
0780 033	3/45	208.00
0780 042	3/45	173.00
0780 043	3/45	234.00
0780 072	3/44	94.00
0780 073	3/44	115.00
0780 074	3/44	130.00
0780 091	3/45	341.00
0780 092	3/45	384.00
0780 093	3/45	789.00
0780 094	3/45	815.00
0780 101	3/43	543.00
0780 102	3/43	689.00
0780 104	3/43	621.00
0780 105	3/43	707.00
0780 107	3/43	1,781.00
0780 108	3/43	1,985.00

Ref. No.	Page	List Price €
0780 141	3/44	1,900.00
0780 142	3/44	2,150.00
0782 160	3/46	635.00
0782 181	3/46	202.00
0782 191	3/46	1,052.00
0783 012	3/46	3,182.00
0783 070	3/46	265.00
0784 108	3/47	2,783.00
0785 108	3/42	573.00
0785 109	3/42	1,405.00
0785 110	3/42	1,615.00
0788 104	3/48	1,015.00
0788 180	3/48	206.00
0788 904	3/49	809.00
0788 980	3/49	65.00
0788 990	3/49	293.00
0800 501	2/2	16.90
0800 502	2/2	20.60
0800 503	2/2	23.60
0800 504	2/2	27.90
0800 513	2/2	99.00
0806 521	2/3	41.90
0806 522	2/3	66.00
0806 523	2/3	82.00
0806 524	2/3	94.00
0806 525	2/3	128.00
0806 526	2/3	144.00
0806 527	2/3	160.00
0806 528	2/3	176.00
0806 540	2/3	247.00
0806 542	2/3	543.00
0807 101	2/2	51.00
0810 501	2/4	211.00
0810 502	2/4	233.00
0810 503	2/4	251.00
0810 504	2/4	268.00
0815 510	2/4	266.00
0815 514	2/4	280.00
0815 518	2/4	350.00
0815 530	2/4	304.00
0815 534	2/4	458.00
0815 540	2/4	489.00
0816 501	2/5	259.00
0816 502	2/5	319.00
0816 503	2/5	368.00
0816 504	2/5	420.00
0816 505	2/5	456.00
0816 506	2/5	508.00
0816 507	2/5	724.00
0816 508	2/5	745.00
0816 509	2/5	809.00
0816 510	2/5	853.00
0816 511	2/5	939.00
0816 512	2/5	1,004.00
0817 512	2/6	1,024.00
0817 514	2/6	1,066.00
0817 516	2/6	1,189.00
0817 518	2/6	1,348.00
0817 520	2/6	1,513.00
0817 522	2/6	1,678.00
0817 524	2/6	1,842.00
0817 526	2/6	2,038.00
0817 528	2/6	2,244.00
0817 530	2/6	2,460.00
0817 532	2/6	2,691.00
0817 534	2/6	2,985.00
0817 536	2/6	3,180.00
0817 538	2/6	4,981.00
0817 540	2/6	5,290.00
0817 542	2/6	5,691.00
0817 544	2/6	6,030.00
0817 546	2/6	6,406.00
0817 910	2/6	160.00
0819 501	2/7	268.00
0819 503	2/7	358.00
0819 510	2/7	386.00
0819 511	2/7	509.00
0819 512	2/7	539.00
0819 513	2/7	796.00



Ref. No.	Page	List Price €	Ref. No.	Page	List Price €	Ref. No.	Page	List Price €
0819 514	2/7	881.00	0870 847	2/18	222.00	0894 542	2/23	3,664.00
0819 515	2/7	1,005.00	0870 849	2/18	271.00	0894 546	2/23	4,549.00
0819 516	2/7	1,130.00	0870 851	2/18	331.00	0894 550	2/23	5,403.00
0819 517	2/7	1,166.00	0870 901	2/17	90.00	0894 554	2/23	6,267.00
0819 519	2/7	1,264.00	0870 903	2/17	82.00	0894 804	2/23	164.00
0819 521	2/7	1,370.00	0870 905	2/17	82.00	0894 806	2/23	186.00
0819 523	2/7	1,604.00	0870 907	2/17	82.00	0894 810	2/23	201.00
0819 525	2/7	1,842.00	0870 909	2/17	82.00	0894 820	2/23	222.00
0819 527	2/7	2,119.00	0870 911	2/17	90.00	0894 834	2/23	253.00
0822 301	2/12	86.00	0870 921	2/17	110.00	0894 854	2/23	829.00
0822 302	2/12	129.00	0870 923	2/17	89.00	0894 872	2/23	855.00
0822 303	2/12	237.00	0870 925	2/17	89.00	0898 101	2/15	10.20
0822 304	2/12	389.00	0870 927	2/17	89.00	0898 102	2/15	17.10
0824 302	2/12	151.00	0870 929	2/17	89.00	0898 103	2/15	20.30
0824 303	2/12	162.00	0870 931	2/17	89.00	0898 104	2/15	23.20
0849 501	2/11	661.00	0870 933	2/17	96.00	0898 105	2/15	26.80
0849 502	2/11	786.00	0870 941	2/17	291.00	0898 106	2/15	30.10
0850 511	2/11	523.00	0870 943	2/17	211.00	0898 107	2/15	33.30
0850 512	2/11	580.00	0870 945	2/17	185.00	0898 108	2/15	36.60
0850 514	2/11	616.00	0870 947	2/17	185.00	0898 109	2/15	40.90
0850 516	2/11	659.00	0870 949	2/17	185.00	0898 110	2/15	44.10
0850 518	2/11	689.00	0870 951	2/17	185.00	0898 111	2/15	47.30
0854 301	2/13	231.00	0870 953	2/17	211.00	0898 112	2/15	60.00
0854 302	2/13	280.00	0870 955	2/17	291.00	0898 113	2/15	64.00
0854 303	2/13	300.00	0882 301	2/30	239.00	0898 114	2/15	70.00
0854 304	2/13	326.00	0882 303	2/30	264.00	0898 115	2/15	74.00
0855 301	2/13	166.00	0882 304	2/30	309.00	0898 116	2/15	81.00
0855 302	2/13	204.00	0882 306	2/30	498.00	0898 117	2/15	84.00
0855 303	2/13	231.00	0884 501	2/20	665.00	0898 118	2/15	87.00
0855 304	2/13	244.00	0885 501	2/20	164.00	0898 119	2/15	92.00
0858 501	2/14	465.00	0885 502	2/20	183.00	0898 120	2/15	96.00
0858 502	2/14	546.00	0885 503	2/20	190.00	0898 121	2/15	101.00
0858 503	2/14	548.00	0885 504	2/20	229.00	0898 122	2/15	104.00
0858 504	2/14	553.00	0885 505	2/20	291.00	0898 123	2/15	110.00
0858 505	2/14	655.00	0885 506	2/20	336.00	0898 124	2/15	117.00
0858 506	2/14	735.00	0885 507	2/20	428.00	0898 125	2/15	122.00
0858 508	2/14	574.00	0885 508	2/20	485.00	0898 126	2/15	127.00
0858 509	2/14	768.00	0888 101	2/21	40.40	0898 127	2/15	131.00
0858 510	2/14	800.00	0888 501	2/21	129.00	0898 128	2/15	134.00
0858 511	2/14	999.00	0888 502	2/21	129.00	0898 129	2/15	141.00
0858 512	2/14	1,096.00	0888 503	2/21	129.00	0898 130	2/15	145.00
0864 321	2/19	228.00	0888 504	2/21	135.00	0898 131	2/15	152.00
0864 322	2/19	256.00	0888 505	2/21	140.00	0898 132	2/15	157.00
0864 323	2/19	264.00	0888 506	2/21	156.00	0898 133	2/15	162.00
0864 324	2/19	314.00	0888 507	2/21	160.00	0898 134	2/15	164.00
0864 325	2/19	325.00	0888 508	2/21	166.00	0898 135	2/15	171.00
0864 326	2/19	382.00	0888 509	2/21	171.00	0898 136	2/15	177.00
0864 327	2/19	405.00	0888 510	2/21	176.00	0898 137	2/15	182.00
0864 328	2/19	438.00	0888 511	2/21	183.00	0898 138	2/15	190.00
0870 301	2/16	304.00	0888 512	2/21	190.00	0898 139	2/15	194.00
0870 302	2/16	308.00	0888 513	2/21	195.00	0898 140	2/15	199.00
0870 303	2/16	335.00	0888 514	2/21	202.00	0898 142	2/15	283.00
0870 304	2/16	370.00	0888 515	2/21	208.00	0898 146	2/15	314.00
0870 305	2/16	401.00	0888 516	2/21	216.00	0898 150	2/15	340.00
0870 306	2/16	448.00	0888 517	2/21	221.00	0898 154	2/15	371.00
0870 307	2/16	627.00	0888 518	2/21	231.00	0898 158	2/15	397.00
0870 309	2/16	685.00	0888 519	2/21	236.00	0898 162	2/15	638.00
0870 311	2/16	752.00	0888 520	2/21	241.00	0898 166	2/15	669.00
0870 801	2/18	72.00	0888 521	2/21	247.00	0898 170	2/15	695.00
0870 802	2/18	73.00	0892 332	2/22	54.00	0898 174	2/15	726.00
0870 803	2/18	74.00	0892 333	2/22	55.00	0898 178	2/15	757.00
0870 804	2/18	75.00	0892 334	2/22	61.00	0906 501	2/24	806.00
0870 805	2/18	76.00	0892 336	2/22	75.00	0906 502	2/24	806.00
0870 807	2/18	85.00	0892 339	2/22	98.00	0906 503	2/24	721.00
0870 809	2/18	94.00	0892 340	2/22	137.00	0906 504	2/24	721.00
0870 811	2/18	102.00	0892 501	2/22	318.00	0906 505	2/24	721.00
0870 821	2/18	72.00	0892 502	2/22	387.00	0906 506	2/24	346.00
0870 822	2/18	73.00	0892 503	2/22	478.00	0906 507	2/24	318.00
0870 823	2/18	74.00	0892 504	2/22	600.00	0906 508	2/24	318.00
0870 824	2/18	79.00	0892 505	2/22	762.00	0906 509	2/24	318.00
0870 825	2/18	80.00	0894 504	2/23	230.00	0906 510	2/24	325.00
0870 827	2/18	92.00	0894 510	2/23	607.00	0906 511	2/24	358.00
0870 829	2/18	105.00	0894 514	2/23	816.00	0906 512	2/24	511.00
0870 831	2/18	120.00	0894 518	2/23	1,055.00	0906 513	2/24	520.00
0870 841	2/18	157.00	0894 522	2/23	1,297.00	0906 514	2/24	622.00
0870 842	2/18	160.00	0894 526	2/23	1,333.00	0906 515	2/24	622.00
0870 843	2/18	164.00	0894 530	2/23	1,570.00	0906 516	2/24	790.00
0870 844	2/18	172.00	0894 534	2/23	1,611.00	0906 517	2/24	795.00
0870 845	2/18	185.00	0894 538	2/23	2,810.00	0906 518	2/24	929.00

Ref. No.	Page	List Price €	Ref. No.	Page	List Price €	Ref. No.	Page	List Price €
0906 519	2/24	1,180.00	0909 110	2/26	99.00	1231 534	1/30	1,083.00
0906 520	2/24	1,456.00	0909 506	2/25	76.00	1234 522	1/31	331.00
0906 521	2/24	1,816.00	0909 508	2/25	76.00	1234 528	1/31	465.00
0906 522	2/24	1,932.00	0909 509	2/25	76.00	1234 532	1/31	812.00
0906 523	2/24	2,044.00	0909 511	2/25	111.00	1234 534	1/31	961.00
0906 524	2/24	2,135.00	0909 514	2/25	130.00	1235 522	1/31	379.00
0906 551	2/25	1,468.00	0912 501	2/8	73.00	1235 528	1/31	535.00
0906 552	2/25	1,987.00	0912 502	2/8	83.00	1235 532	1/31	874.00
0906 553	2/25	580.00	0912 503	2/8	94.00	1235 534	1/31	1,004.00
0906 555	2/25	866.00	0912 504	2/8	108.00	1238 522	1/37	427.00
0906 557	2/25	1,365.00	0912 505	2/8	119.00	1240 522	1/32	387.00
0906 559	2/25	1,855.00	0912 506	2/8	130.00	1240 528	1/32	738.00
0906 561	2/25	1,389.00	0912 507	2/8	140.00	1240 532	1/32	996.00
0906 563	2/25	1,977.00	0912 508	2/8	151.00	1240 534	1/32	1,225.00
0907 701	2/26	1,382.00	0912 521	2/8	390.00	1241 522	1/32	437.00
0907 702	2/26	1,382.00	0932 701	2/10	379.00	1241 528	1/32	788.00
0907 703	2/26	1,382.00	0932 702	2/10	443.00	1241 532	1/32	1,046.00
0907 704	2/26	1,382.00	0932 703	2/10	496.00	1241 534	1/32	1,275.00
0907 705	2/26	1,382.00	0932 704	2/10	540.00	1242 522	1/33	356.00
0907 706	2/26	955.00	0932 705	2/10	647.00	1242 528	1/33	657.00
0907 707	2/26	955.00	0932 706	2/10	702.00	1242 532	1/33	909.00
0907 708	2/26	967.00	0932 707	2/10	760.00	1242 534	1/33	1,130.00
0907 709	2/26	981.00	0932 708	2/10	820.00	1243 522	1/33	406.00
0907 710	2/26	981.00	0932 731	2/10	463.00	1243 528	1/33	707.00
0907 711	2/26	1,178.00	0932 732	2/10	542.00	1243 532	1/33	959.00
0907 712	2/26	1,354.00	0932 733	2/10	607.00	1243 534	1/33	1,180.00
0907 713	2/26	1,407.00	0932 734	2/10	661.00	1248 722	1/41	545.00
0907 714	2/26	1,566.00	0933 701	2/19	708.00	1248 728	1/41	699.00
0907 715	2/26	1,566.00	0933 702	2/19	789.00	1253 522	1/44	440.00
0907 716	2/26	1,650.00	0933 703	2/19	831.00	1260 716	1/55	295.00
0907 717	2/26	1,720.00	0933 704	2/19	853.00	1260 718	1/55	335.00
0907 718	2/26	1,774.00	0933 705	2/19	885.00	1260 722	1/55	376.00
0907 719	2/26	1,940.00	0933 706	2/19	950.00	1260 728	1/55	432.00
0907 720	2/26	2,063.00	0933 707	2/19	1,025.00	1260 734	1/55	1,230.00
0907 721	2/26	2,500.00	0933 708	2/19	1,058.00	1262 722	1/57	386.00
0907 722	2/26	2,755.00	0996 701	1/12, 2/10, 4/19, 5/16, 7/3	69.00	1262 728	1/57	448.00
0907 723	2/26	2,856.00	0996 705	1/12, 2/10, 4/19, 5/16, 7/3	132.00	1264 722	1/59	364.00
0907 724	2/26	3,119.00	0997 770	1/12, 2/10, 7/4	225.00	1264 728	1/59	406.00
0907 751	2/27	3,312.00	0997 772	7/4	225.00	1266 722	1/63	458.00
0907 753	2/27	1,321.00	0997 774	7/4	275.00	1266 728	1/63	576.00
0907 755	2/27	1,598.00	0997 778	7/4	740.00	1268 722	1/61	386.00
0907 757	2/27	2,202.00	0997 784	7/5	395.00	1268 728	1/61	438.00
0907 759	2/27	2,448.00	0997 785	7/5	450.00	1271 416	1/60	348.00
0907 761	2/27	2,054.00	0997 786	7/5	450.00	1271 422	1/60	427.00
0907 763	2/27	2,746.00	1220 416	1/11	102.00	1271 428	1/60	491.00
0907 775	2/27	4,312.00	1220 417	1/11	102.00	1271 451	1/60	80.00
0908 701	2/28	1,594.00	1220 516	1/11	133.00	1271 452	1/60	92.00
0908 702	2/28	1,594.00	1220 517	1/11	133.00	1271 455	1/60	34.60
0908 703	2/28	1,594.00	1220 518	1/11	360.00	1276 514	1/67	464.00
0908 704	2/28	1,594.00	1220 519	1/11	167.00	1276 591	1/67	16.80
0908 705	2/28	1,594.00	1220 522	1/11	215.00	1278 505	1/68	707.00
0908 706	2/28	1,127.00	1222 416	1/13	167.00	1278 508	1/68	761.00
0908 707	2/28	1,102.00	1222 516	1/13	172.00	1278 912	1/68	102.00
0908 708	2/28	1,163.00	1226 416	1/12	148.00	1278 916	1/68	102.00
0908 709	2/28	1,180.00	1226 417	1/12	148.00	1278 920	1/68	102.00
0908 710	2/28	1,251.00	1226 418	1/12	205.00	1278 923	1/68	25.30
0908 711	2/28	1,335.00	1226 422	1/12	259.00	1278 924	1/68	25.30
0908 712	2/28	1,449.00	1226 904	1/19	514.00	1278 930	1/68	370.00
0908 713	2/28	1,480.00	1226 906	1/20	510.00	1278 936	1/68	25.30
0908 714	2/28	1,524.00	1226 908	1/19	438.00	1278 938	1/68	25.30
0908 715	2/28	1,524.00	1226 910	1/20	504.00	1278 940	1/68	25.30
0908 716	2/28	1,625.00	1226 912	1/16	257.00	1278 942	1/68	25.30
0908 717	2/28	1,700.00	1226 914	1/12	308.00	1278 944	1/68	25.30
0908 718	2/28	1,803.00	1226 916	1/17	356.00	1278 946	1/68	25.30
0908 719	2/28	1,907.00	1226 918	1/15	452.00	1278 948	1/68	25.30
0908 720	2/28	1,993.00	1226 920	1/16	489.00	1278 950	1/68	25.30
0908 721	2/28	2,622.00	1226 922	1/17	401.00	1278 952	1/68	25.30
0908 722	2/28	2,892.00	1226 924	1/18	397.00	1278 954	1/68	25.30
0908 723	2/28	2,997.00	1226 928	1/18	428.00	1278 956	1/68	25.30
0908 724	2/28	3,308.00	1226 930	1/15	586.00	1278 958	1/68	25.30
0908 751	2/29	3,643.00	1230 522	1/30	360.00	1278 960	1/68	25.30
0908 753	2/29	1,367.00	1230 528	1/30	545.00	1278 962	1/68	25.30
0908 755	2/29	1,615.00	1230 532	1/30	890.00	1279 722	1/64	595.00
0908 757	2/29	2,116.00	1230 534	1/30	1,078.00	1279 728	1/64	820.00
0908 759	2/29	2,369.00	1231 522	1/30	414.00	1279 780	1/65	102.00
0908 761	2/29	2,116.00	1231 528	1/30	611.00	1279 781	1/65	102.00
0908 763	2/29	2,827.00	1231 532	1/30	942.00	1279 782	1/65	102.00
0908 773	2/29	3,511.00				1279 783	1/65	102.00
0908 775	2/29	4,477.00				1279 784	1/65	102.00



Ref. No.	Page	List Price €	Ref. No.	Page	List Price €	Ref. No.	Page	List Price €
1279 785	1/65	102.00	4310 110	8/2	10.80	4340 222	8/2	38,90
1722 502	3/2	129.00	4310 115	8/2	19.20	4340 226	8/2	46,40
1723 502	3/2	162.00	4310 120	8/2	32.60	4340 230	8/2	69,00
1724 502	3/2	265.00	4310 125	8/2	69.00	4342 410	8/2	10,80
1726 502	3/3	310.00	4310 130	8/2	95.00	4342 610	8/2	24,70
1726 506	3/3	341.00	4310 135	8/2	149.00	4350 210	8/2	28,20
1726 510	3/3	601.00	4320 210	8/2	18.40	4350 218	8/2	46,10
1726 514	3/3	743.00	4320 212	8/2	24.70	4350 226	8/2	69,00
1728 502	3/3	259.00	4320 214	8/2	26.80	4350 232	8/2	89,00
1728 506	3/3	330.00	4320 220	8/2	29.70	4350 238	8/2	125,00
1728 510	3/3	538.00	4320 224	8/2	32.80	4351 610	8/3	23,50
1728 514	3/3	689.00	4320 228	8/2	54.00	4351 618	8/3	55,00
1730 502	3/4	343.00	4320 810	8/2	115.00	4351 628	8/3	82,00
1730 506	3/4	387.00	4320 814	8/2	163.00	4351 638	8/3	104,00
1732 502	3/4	290.00	4320 818	8/2	175.00	4352 412	8/3	13,40
1732 506	3/4	365.00	4320 822	8/2	180.00	4352 418	8/3	21,20
1734 502	3/5	357.00	4320 826	8/2	180.00	4352 422	8/3	40,20
1734 506	3/5	409.00	4320 830	8/2	180.00	4353 410	8/3	49,00
1739 910	3/3	23.80	4320 834	8/2	229.00	4353 510	8/3	68,00
1739 920	3/2	13.40	4320 838	8/2	229.00	4357 010	8/3	10,10
1865 510	2/9	176.00	4320 842	8/2	229.00	4357 020	8/3	29,70
1865 513	2/9	227.00	4320 846	8/2	229.00	4357 610	8/3	10,30
1865 517	2/9	312.00	4320 850	8/2	272.00	4357 620	8/3	17,50
1865 520	2/9	360.00	4320 854	8/2	272.00	4358 410	8/3	15,50
1997 501	1/11, 2/9, 3/2, 7/2	44.90	4320 858	8/2	325.00	4358 420	8/3	27,20
1998 501	1/11, 2/9, 3/2, 7/2	44.90	4320 862	8/2	325.00	4358 810	8/3	17,50
1998 710	7/2	216.00	4320 866	8/2	325.00	4359 210	8/3	22,30
1998 712	7/2	54.00	4329 010	8/2	6.50	4359 410	8/3	28,50
1998 720	1/11, 2/9, 3/2, 7/2	64.00	4329 026	8/2	15.00	4360 210	8/3	22,70
1998 722	7/3	54.00	4329 046	8/2	29.90	4360 212	8/3	32,60
1998 730	7/3	108.00	4340 210	8/2	14.00	4360 214	8/3	36,90
1998 732	7/3	64.00	4340 214	8/2	15.50	4360 218	8/3	47,40
1998 770	3/3	5.30	4340 218	8/2	22.70	4360 810	8/3	31,50

0-9

2/3 point internal micrometers, analogue	2/24
2/3 point internal micrometers, digital	2/26
2/3 point internal measuring pistol, digital	2/28

A

Acute angle squares 45°	5/6
Adjustable V-blocks	6/19
Angle lever attachment	3/14
Angle normal 90°	6/15

B

Base stand for surface plates	6/13, 6/15
Batteries for electronic devices	1/12, 2/8, 3/3
Beam compass	4/6
Beam trammel	4/5
Bench centres & accessories	3/43-3/45
Bench centre with granite work bench & accessories	3/46
Bevel protractors	5/15
Blade micrometers	2/13
Box for data input	7/4
Brake disc inspection gauges	1/45
Brake drum vernier calipers	1/45

C

Cabinets for measuring and inspection plates	6/15
Cable for data transmission	1/14, 7/2-7/4, 7/6-7/7
Calibration service	8/2-8/3
Calipers for 3/5 point measurement	1/47
Calipers for external locking grooves, analogue & digital	1/44
Calipers for internal grooves, analogue & digital	1/46
Calipers with cross points, analogue and digital	1/29, 1/39
Calipers with gripper points analogue and digital	1/29, 1/39
Calipers, analogue	1/2-1/9, 1/21-1/29, 1/42-1/53
Calipers, digital	1/10-1/20, 1/30-1/41, 1/54-1/68
Carbide gauge block sets	6/40
Center point	6/37
Centre squares	5/7
Ceramic gauge block sets	6/41
Chamfer gauge	1/47, 6/26
Combined internal / external calipers	4/7
Compact measuring stands	3/41
Connecting cables for electronic instruments	1/14, 7/2-7/4, 7/6-7/7
Contraction rules for model builders	6/5-6/6
Contraction vernier calipers	1/42-1/43
Contraction vernier depth gauges	1/52
Convertor mm/inch	6/25
Crankpin levels with a longitudinal and a transverse level	6/21
Crankshaft gauges	3/28
Cylindrical internal micrometer	2/23

D

Data acquisition / data transmission	7/2-7/7
Data cables	1/14, 7/2-7/4, 7/6-7/7
DBP weld seam gauge	6/26
Depth attachment base for dial gauges	3/19
Depth attachment base for pocket calipers	1/13
Depth gauges, digital	1/54-1/61, 1/67-1/68
Depth gauge digital, with interchangeable inserts	1/64
Depth micrometers	2/30
Dial calipers	1/9
Dial comparator gauges	3/12
Dial depth gauges with a measuring base	3/19
Dial gauges analogue	3/7-3/12
Dial gauges digital	3/2-3/6
Dial gauges with extended measuring range	3/8

D

Dial gauges with concentric mm-display	3/10
Dial gauges with reverse action plunger	3/12
Dial gauges, water and oil proof	3/9
Dial gauges, water and oil proof	3/9
Dial gauges, shockproof	3/9
Dial gauges, shockproof, error free	3/11
Dial gauges, small	3/7
Dial micrometers	2/11
Dial test indicators and accessories	3/18-3/19
Dial thickness gauges	3/20-3/21
Digital indicators	3/2-3/6
Digital pocket calipers	1/11-1/12
Digital pocket calipers for specific measuring tasks	1/15-1/20
Digital pocket calipers PRISMA	1/13
DIN thread conversion	6/24
Disc micrometer	2/12
Disc micrometer to measure tooth span, analogue & digital	2/19
Dividers	4/3
Double V-blocks	6/18
»Duo-Fix« pocket vernier caliper	6/18

E

Extension depth attachment base for depth gauges	1/60
Extensions for dial gauges	3/14
»Extensions« measuring tool set for pocket calipers	1/14
External calipers	4/8-4/9
External caliper gauges analogue & digital	3/23, 3/25

F

Feeler gauge tapes	6/31
Feeler gauges	6/30
»Filetor« ISO thread convertor	6/24
Flexible steel rules	6/3-6/4
Flute micrometers	2/14
Frame levels	6/22

G

Gauge block accessories sets	6/36
Gauge block holders	6/37
Gauge block inspection sets for micrometers and calipers	6/39
Gauge block maintenance set	6/38
Gauge blocks	6/34
Gear tooth calipers	1/48

H

Height and scribing gauges	4/14-4/18
Height and scribing gauges for model builders	4/18
Height and scribing gauges, digital	4/19-4/20
Holder for dial gauges / lever gauges	4/21
Holder for external micrometers	2/2
Holder for internal micrometers	2/21
Holder for feeler gauge tapes	6/31

I

Indicators	3/2-3/6
Inspection plates	6/12-6/13
Inspection points	6/37
Inspection set for micrometers and calipers	6/39
Inspection square set	5/11
Inspection square, hardened	5/8
Interchangeable inserts for depth caliper	1/65
Internal calipers	4/8-4/9
Internal caliper gauges, analogue	3/22
Internal caliper gauges, digital	3/24
Internal micrometers, cylindrical version	2/21
Internal micrometers interchangeable extensions	2/22-2/23
Internal micrometers with measuring jaws	2/20
Internal precision bore gauges	3/26-3/27

Keyword index

K	Page	S	Page
Keyboard interface	7/4-7/5	Screw pitch gauges	6/30
Knife edge jaws	6/38	Scribers	4/2, 6/37
Knife edge rule	6/10	Set of 2/3 point internal micrometers, analogue	2/25
Knife edge squares, hardened	5/11	Set of 2/3 point internal micrometers, digital	2/27
L		Set of 2/3 point internal micrometers, measuring pistol	2/29
Lapping and inspection plate	6/13	Set of external micrometers, analogue	2/2-2/3
Length measuring instrument for internal incisions	3/29	Setting device for internal precision bore gauges	3/27
Length measuring instrument for external incisions	3/28	Setting standards for micrometers	2/15
Levels	6/21-6/22	Shaft measuring instruments	3/48-3/49
Lightweight squares	5/5	Sine bars	6/16
Lightweight workshop calipers analogue & digital	1/28, 1/38	Small depth gauge, digital	1/66
M		Snap gauges, adjustable	6/46-6/47
Machine levels with V-groove	6/21	Snap gauges, double jaw	6/46
Magnetic angle gauge	6/22	Software for data acquisition	7/2
Magnetic base	3/38	Spring dividers	4/4
Magnetic indicator stand	3/38-3/40	Square with base	5/2-5/4
Magnetic indicator stand with flexible arm	3/40	Squares with stock and blade	5/5, 5/9
Magnetic measuring and clamping prism	6/19	Squares without base	5/2-5/4
Marking calipers	4/7, 4/10	Stand for gaugeblock holders	6/38
Marking gauges	4/11-4/13	Steel gauge block sets	6/35-6/36
Measuring and inspection plates	6/14	Steel rules	6/8-6/9
Measuring inserts for dial gauges	3/15-3/17	Steel rules, flexible	6/2-6/6
Measuring inserts for external threads	2/17	Steel scale tapes for circumference and diameter	6/7
Measuring stands	3/42	T	
Measuring tool set »Extensions«	1/14	Tapes for circumference and diameter	6/7
Measuring tool sets	1/8, 1/14	Tapered hole gauges	6/27-6/28
Micrometers, external, analogue	2/2-2/6	Thread cutting gauges	6/23
Micrometers, external, with interchangeable inserts	2/7	Thread flank inserts for external measurement	2/17
Micrometers digital	2/8-2/10	Thread flank setting standards for external measurement	2/18
Micrometers for thread flank measurement	2/16	Thread plug gauges, individual and set	6/49
Micrometers for tube wall measurement	2/12	Thread ring gauges, individual and set	6/50-6/51
Micrometers with reduced measuring faces	2/13	»Tolerator« ISO tolerance convertor	6/24
Mitre squares, 135°	5/6	Twist drill grinding gauge, twist drill grinding and inspection gauge	6/25
Mounting scales digital	1/69	U	
Mounting straight edges	6/11	»Uhrstast« comparator gauge & accessories	3/33-3/37
N		Universal bevel protractors, analogue & digital	5/16-5/17
Nozzle gauge	6/27	Universal calipers, digital	1/40-1/41
P		Universal comparator gauge & accessories	3/30-3/37
Parallel blocks, set	6/20	Universal grinding gauge	6/26
Pattenmaker angle	5/10	Universal indicator stand with magnetic base	3/38
Pin gauges, set	6/42	Universal magnetic holder	3/39, 3/40
Pin gauge holder	6/43	Universal measuring support	3/43
Plan parallel jaws	6/38	USB Keyboard interfaces	7/4
Plug gauges, individual and set	6/44-6/45	V	
Pocket caliper for specific measuring tasks	1/14-1/19	V-blocks	6/16-6/19
Pocket vernier calipers	1/2-1/6	Vernier depth gauges	1/49-1/51, 1/53
Pocket vernier caliper »Duo-Fix«	1/7	W	
Pocket vernier caliper »PRISMA«	1/7	Wallholders with feelergauge tape sets	6/31
Precision feeler gauge tapes	6/32	Welding gauge	6/26
Precision reference sheets	6/33	Wireless data transmission	7/5
»PRISMA« calipers	1/7, 1/13, 1/37	Wooden cases with foam padding	1/70-1/71, 5/12, 6/10
Profile gauge	6/25	Workshop calipers, analogue	1/20-1/27
Protractors	5/13-5/14	Workshop caliper, dial	1/29
Protractor level	6/22	Workshop calipers, digital	1/30-1/37
R		Workshop calipers, digital, »PRISMA«	1/37
Radio data transmission	7/5	Workshop calipers, digital, waterproof IP65	1/32-1-33
Radius gauges	1/47, 6/27, 6/28	Workshop dial caliper	1/28
Radius gauges, individual	6/29	X	
Radiused measuring jaws	3/37	X type V-blocks (parallel)	6/18
Replacement gauge block extension	2/6		
Ring gauges	6/48		
Roller supports for bench centre	3/45		
Runout measuring gauge with sliding discs	3/47		
Rules, flexible	6/2-6/6		
Rules, steel	6/8-6/9		

[illegible]

[illegible]

Important notes regarding this catalogue



© by HELIOS-PREISSER, Gammertingen

With this catalogue all previous sales documentation of the Helios and PREISSER brand are no longer valid.

All indicated prices exclude the statutory value-added-tax.

We reserve the right to make price changes, alterations to our products, especially due to technical improvements and further developments.

All illustrations and descriptions etc. are valid at the time of going to press.

HELIOS-PREISSER
Postfach 1261
D-72498 Gammertingen

000018120 – Version 06/13 EN



HELIOS·PREISSER

www.helios-preisser.de

