

ORION® Spring dividers

Application:

For marking dimension lines, e.g. for hole circles.

Execution:

- Quick-action clamping nut and particularly strong legs

- Strong annular spring and hardened pivot pins for firm control of legs

- No. 35015: Replaceable tips



No. 35010



No. 35015

Length (mm)		125	150	200	250	300
35010...	Ident. No.	127	150	200	250	301
	Price/unit, €	●	●	●	●	●
35015...	Ident. No.	126	150	200	250	301
	Price/unit, €	●	●	●	●	●

Prod. Gr. 3BG

ORION® Compass vernier callipers

For marking off



Application:

For marking off on workpieces by directly setting the required dimensions.

Execution:

- No. 35025: Hardened steel marking-off arms

- No. 35026: Carbide-tipped marking-off arms

Technical data:

- Vernier scale: 0.1 mm
- Limb length: 40 mm



Max. length of application area (mm)		150	200	300
Max. Ø (mm)		300	400	600
35025...	Ident. No.	150	200	300
	Price/unit, €	●	●	●
35026...	Ident. No.	150	200	300
	Price/unit, €	○	●	●

Prod. Gr. 3BG

ATORN® Marking-off vernier callipers

With fine adjustment



Application:

For marking off on workpieces by directly setting the required dimensions

Execution:

- Gauge bar and marking ruler made from one piece
- Measuring faces very finely ground, made of alloyed steel, hard-chrome plated

- Scale and vernier scale with anti-glare, brushed chromium-plated finish

Technical data:

- Max. length of application area: 300 mm
- Vernier scale: 0.05 mm



35036...	Ident. No.	030
	Price/unit, €	●

Prod. Gr. 3AF

ATORN® Beam compasses

With fine adjustment

Application:

For scribing by directly setting required dimensions at intervals of 1 mm.

Execution:

- Steel pipe beam with guide groove (special steel)
- With fine adjustment
- Graduation with 1 mm scale interval
- Anodised aluminium slide
- Hardened tips, Ø 6 mm

- Replaceable tips
- Two movable trammels

Notes:

Clean measuring equipment after use and avoid contact with hand perspiration.

Technical data:

- Vernier scale: 0.1 mm



Max. length of application area (mm)		500	1000	1500	2000	3000
Pipe Ø (mm)		20	20	20	20	28
Weight (kg)		0.9	1.45	2	2.6	5.3
35042...	Ident. No.	050	100	150	200	300
	Price/unit, €	●	●	○	(○)*	(○)*

Prod. Gr. 3AF

Replacement scribing tips no. 35044050

ORION® Marking gauge

With fine adjustment

Application:

For precise marking off parallel to the workpiece edge.

Execution:

- Round rod made of INOX steel, with guide groove
- Graduation with 1 mm scale interval

- Exchangeable, hardened scribing tip
- Steel slide with rectangular stop plate
- With fine adjustment

Technical data:

- Scale value: 0.1 mm



Max. working length (mm)		200	300
35051...	Ident. No.	020	030
	Price/unit, €	●	●

Prod. Gr. 3BG

ORION® Marking gauge

With runner

Application:

For precise marking off parallel to the workpiece edge.

Execution:

- INOX steel beam

- Exchangeable cemented carbide marking-off needle
- Locking screw

Technical data:

- Max. working length: 200 mm
- Scale value: 0.1 mm



35052...	Ident. No.	011
	Price/unit, €	●

Prod. Gr. 3BG

ORION® Marking gauge

With flat slide

Application:

For precise marking off parallel to the workpiece edge

Execution:

- Flat, with millimetre pitch

- Anti-glare, brushed chromium-plated
- Hardened, wide marking-off edge

Technical data:

- Scale value: 1 mm



Max. working length (mm)		200	250	300
35053...	Ident. No.	020	025	030
	Price/unit, €	●	●	●

Prod. Gr. 3BG

ORION® Scriber

Sturdy cast iron base



Application:

For marking scale lines on workpiece surfaces.

Execution:

- Fine adjustment
- Carbide-tipped marking-off needle
- Ergonomically designed cast iron base

Max. length measuring range (mm)		300	600
Vernier scale		0.05 mm	0.05 mm
Base length x base width		136 x 91 mm	180 x 120 mm
35060...	Ident. No.	031	061
	Price/unit, €	●	●

Prod. Gr. 3BE



ATORN® Scriber with sliding scriber



Application:

For marking scale lines on workpiece surfaces.

Execution:

- Scale and vernier scale with anti-glare, brushed chromium-plated finish

- Parallax-free reading
- Stainless steel measuring arms
- Marking-off needle from base



Ident. No. 030-100 Ident. No. 130-200

Max. length measuring range (mm)			300	600	1000
Vernier scale			0.02 mm	0.02 mm	0.02 mm
Base length x base width			145 x 90 mm	189 x 118 mm	189 x 118 mm
35072...	fine adjustment	Ident. No.	030	060	100
		Price/unit, €	●	●	●
35072...	toothed rack	Ident. No.	130	160	200
		Price/unit, €	●	●	○

Prod. Gr. 352

ATORN® Electronic scriber with data output



Application:

For marking scale lines on workpiece surfaces and for measuring heights and clearances.

Execution:

- Marking-off needle from base
- LCD display, 11 mm
- Carbide-tipped marking-off needle
- Steel foot
- ON/OFF

- Zero setting at any position
- mm/inch changeover
- Hold function
- Preset function

Advantage:

- Ident. No. 430-500:** With sliding, straight marking-off needle

Delivery:

Battery included (1 x 3 V lithium type CR 2032)



Ident. No. 230-300



Ident. No. 330-400



Ident. No. 430-500

Max. length measuring range (mm)			300	600	1000
Digit increment (mm)			0.01	0.01	0.01
Base length x base width			145 x 90 mm	189 x 118 mm	189 x 118 mm
Data transmission type			Proximity	Proximity	Proximity
35072...	fine adjustment	Ident. No.	230	260	300
		Price/unit, €	●	●	○
35072...	toothed rack	Ident. No.	330	360	400
		Price/unit, €	●	●	○
35072...	sliding scriber	Ident. No.	430	460	500
		Price/unit, €	●	●	●

Prod. Gr. 352

Scribing tips for ATORN scriber

Length 75 mm CC-tipped	Length 150 mm CC-tipped	for scriber with sliding needle, straight, length 270 mm	for scriber with sliding needle, straight, length 270 mm, cemented carbide	for scriber with sliding needle, depressed centre, length 270 mm	for scriber with sliding needle, depressed centre, length 270 mm, cemented carbide
35072... Ident. No.	35072... Ident. No.	35072... Ident. No.	35072... Ident. No.	35072... Ident. No.	35072... Ident. No.
900 ●	910 ●	920 ●	925 ●	930 ●	935 ●

Price/unit, €

Prod. Gr. 352

ORION® Height measuring and marking-off device

Round scale and double guide



Application:

For marking scale lines on workpiece surfaces and for measuring heights and clearances.

Execution:

- Adjusted using hand wheel
- Carbide-tipped marking-off needle
- Ergonomically designed cast iron base

- Rotating scale dial

- Double counter, one positive counter, one negative counter

Delivery:

Basic device, 1 carbide-tipped measuring and marking-off blade, 1 clamping element for marking-off blade and gauge slides

Max. length measuring range (mm)		300	600
Scale value (mm)		0.01	0.01
Base length x base width		125 x 85 mm	180 x 120 mm
Ident. No.		030	060
Price/unit, €		●	●

Prod. Gr. 3BE

ORION® Electronic scribers



Application:

For marking scale lines on workpiece surfaces.

Execution:

- Guide column made from INOX steel
- Fine adjustment
- Carbide-tipped marking-off needle
- Ergonomically designed cast iron base

- ON/OFF

- Zero setting at any position
- mm/inch switch-over
- HOLD function
- ABS/TOL/SET

Delivery:

Battery included (type SR44)

Max. length measuring range (mm)		300	600
Digit increment (mm)		0.01	0.01
Base length x base width		136 x 91 mm	136 x 91 mm
Ident. No.		031	061
Price/unit, €		●	●

Prod. Gr. 3BE

Mahr Height measuring and marking-off device

Digimar 814 SR



Application:

For marking scale lines on workpiece surfaces and for measuring heights and clearances.

Execution:

- Data output
- Fine adjustment
- Carbide-tipped marking-off needle
- Easy-grip, secure base
- Reset function
- Zero setting at any position
- mm/inch switch-over
- Auto off
- Preset function

- ABS function

Advantage:

- Key lock to prevent unintentional adjustment
- Switch on by moving the slider
- Large hand wheel for positioning and measuring

Delivery:

Marking-off tip, battery, box, operating instructions

Technical data:

- Digit increment: 0.01 mm
- Base length x base width: 180 x 80 mm
- Data transmission type: multiCOM

Max. length measuring range (mm)		350	600
Ident. No.		035	060
Price/unit, €		●	●

Prod. Gr. 306



Ident. No. 035



Quality test at max. level

Each TESA height measuring device with SCS calibration certificate

TESA is the leading manufacturer of height measuring devices with decades of experience. To meet the highest expectations, TESA has invested in state-of-the-art air conditioning technology for the production lines of height measuring device series TESA-HITE and MICRO-HITE. The assembly cell and final inspection area for these precision instruments meet the highest climatic laboratory specifications. The ambient temperature of 20°C (reference temperature) is maintained with a tolerance of 0.1 K. This is unique and outstanding within the entire industry. This investment was a further milestone towards meeting the requirement for TESA height measuring devices to enable the smallest error limits to be produced and controlled reproducibly with the lowest possible measurement uncertainty.

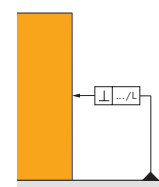
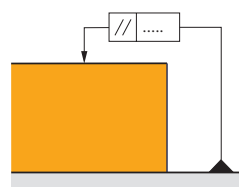
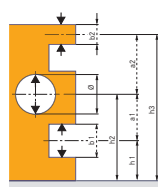
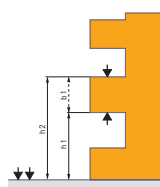
SCS calibration certificate:

The precision of each TESA height measuring device is generally certified by the accredited TESA laboratory by awarding an SCS calibration certificate (SCS = Swiss Calibration Service). This corresponds to the same level as DAKKS (DAKKS = German accreditation body). For each measured test feature, the SCS calibration certificate comprehensively certifies the adherence to specification limits; the measured values are based directly on the national standards.



TESA HITE magna and TESA-HITE

Overview of the measuring options



measurement in one probe direction

measurement in two probe directions

measurements of parallelism

measurements of perpendicularity (TESA-HITE only)



TESA HITE magna and TESA-HITE height measuring devices

Application:

Ident. No. 004-007: For measuring external, internal, height, depth and distance dimensions, as well as diameters using automatic recording of the reversal point in bores and shafts (TESA patented measuring system). Parallelism deviations can also be measured.

Ident. No. 040-070: For measuring external, internal, height, depth and distance dimensions, as well as diameters using automatic recording of the reversal point in bores and shafts (TESA patented measuring system). Parallelism deviations can also be measured. Optional accessories also enable testing of perpendicularity deviations.

Execution:

- Scans with consistent, repeatable measuring force (with acoustic signal)

- Reset to zero at any position

- Large, clear LCD display

- Ident. No. 040-070:** Air cushion system for easy movement on the measuring plate (at the push of a button)

Advantage:

- Large measuring ranges
- Degrees of protection up to IP65 for optimum workshop compatibility

Delivery:

Basic device includes control panel, standard gauge slide carrier, standard gauge slide with carbide ball (diameter 5 mm), reference piece, adapter plug 110-240 V and SCS calibration certificate (DAKKS standard)



Ident. No. 004-007



Ident. No. 040-070

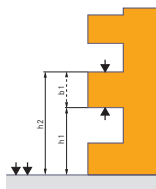
Length measuring range (mm)		415	715	415	715
Min./max. application area with standard gauge slide carrier		0-570 mm	0-870 mm	0-570 mm	0-870 mm
Digit increment (can be pre-selected)		0.001 mm 0.005 mm 0.01 mm	0.001 mm 0.005 mm 0.01 mm	0.0001 mm 0.001 mm 0.01 mm	0.0001 mm 0.001 mm 0.01 mm
Height gauge error limit		< 8 µm	< 8 µm	(2.5 + 4 x L) µm (L in m)	(2.5 + 4 x L) µm (L in m)
Repeat accuracy of drill hole (µm)		5	5	3	3
Repetition accuracy, level (µm)		3	3	2	2
Perpendicularity tolerance (front) (µm)		-	-	10	15
Min./max. measurement force		1.0-2.0 N	1.0-2.0 N	1.0-2.0 N	1.0-2.0 N
Max. battery operating time (h)		60	60	60	60
Data transmission type		RS232	RS232	RS232	RS232
With air cushion equipment		No	No	Yes	Yes
Weight (kg)		15	18	27	32
35147...	TESA-HITE magna	Ident. No. Price/unit, €	004 ●	007 ●	-
35147...	TESA-HITE	Ident. No. Price/unit, €	-	-	040 ●
				070 ●	

Prod. Gr. 362

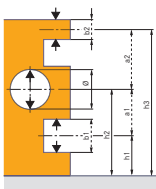


TESA-HITE plus M, MICRO-HITE and MICRO-HITE+M

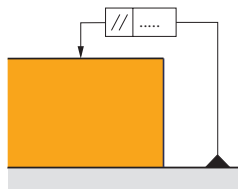
Overview of the measuring options



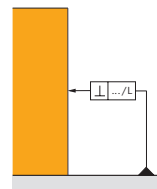
measurement in one probe direction



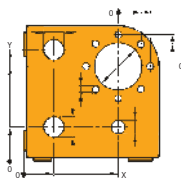
measurement in two probe directions



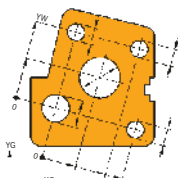
measurements of parallelism



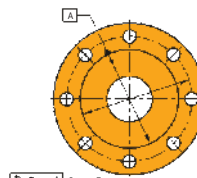
measurements of perpendicularity and straightness



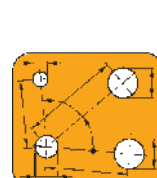
measurement in two coordinate directions



measurement in two coordinate directions



measurement in two coordinate directions



Angle measurement



TESA TESA-HITE plus M 400/700 height measuring devices

with motorised drive

Application:

For measuring external, internal, height, depth and distance dimensions, as well as diameters using automatic recording of the reversal point in bores and shafts (TESA patented measuring system). It is also possible to measure in two coordinate directions and to measure deviations in parallelism. Optional accessories also enable angle measurement and perpendicularity testing.

Execution:

- 1D/2D control panel with geometric functions for measurements in 1 and 2 coordinate directions
- Reset to zero at any position
- Scans with consistent, repeatable measuring force (with acoustic signal)

- Automatic programming and implementation of measuring sequences
- Large, clear LCD display
- Air cushion system for easy movement on the measuring plate (at the push of a button)
- Statistical data processing
- Ident. No. 042, 072: Integrated matrix printer

Delivery:

TESA-HITE plus M basic device with 1D/2D control panel, standard gauge slide carrier, standard gauge slide with carbide ball (diameter 5 mm), reference piece, mains power adapter 110-240 V and SCS calibration certificate (DAkkS standard)



Ident. No. 040, 070-072



Control panel with integrated matrix printer 042 and 072

Length measuring range (mm)			405	705
Min./max. application area with standard gauge slide carrier			0-560 mm	0-860 mm
Digit increment (can be pre-selected)			0.0001 mm 0.001 mm 0.01 mm	0.0001 mm 0.001 mm 0.01 mm
Height gauge error limit			(2.5 + 3 x L) µm (L in m)	(2.5 + 3 x L) µm (L in m)
Repeat accuracy of drill hole (µm)			2	2
Repetition accuracy, level (µm)			1	1
Perpendicularity tolerance (front) (µm)			8	12
Min./max. measurement force			0.5-1.5 N	0.5-1.5 N
Max. battery operating time (h)			60	60
Data transmission type			RS232	RS232
With air cushion equipment			Yes	Yes
Weight (kg)			30	32
35160...	without printer	Ident. No.	040	070
		Price/unit, €	●	○
35160...	with printer	Ident. No.	042	072
		Price/unit, €	○	○

Prod. Gr. 365



TESA MICRO-HITE height measuring devices

Motorised and manual

Application:

Ident. No. 030-095: For measuring external, internal, height, depth, step and distance dimensions on geometric elements with flat, plane-parallel and circular cylindrical surfaces in 1D or 2D coordinate directions. Dynamic measuring processes with max., min. and max.-min. memory functions. Optional via TESA IG-13 measuring probe for perpendicularity, straightness and parallelism deviations.

Ident. No. 130-190: For measuring external, internal, height, depth, step and distance dimensions on geometric elements with flat, plane-parallel and circular cylindrical surfaces. Measurement of diameters using automatic recording of the reversal point of bores and shafts (TESA QUICKCENTER patented measuring system). It is also possible to measure in two coordinate directions. Dynamic measuring processes are possible using max., min. and max.-min. memory functions. The TESA IG-13 measuring probe can optionally be used to output additional perpendicularity, straightness and parallelism deviations.

Execution:

- **Ident. No. 030, 060, 090:** manual measuring slide movement using handwheel
- **Ident. No. 030-095:**
 - hybrid control panel with backlit keypad and colour touchscreen display
 - Air cushion activation for easy movement
 - Quickcenter functionality for efficient determination of the reversal points
- **Ident. No. 035, 065, 095:** manual measuring slide movement using handwheel and fine adjustment
- **Ident. No. 130-190:**
 - control panel with touchscreen or via operator keypad

- quick, easy and reliable measurements, especially for bores
- reset to zero at any position
- air cushion system for easy movement on the measuring plate (at the push of a button)

Advantage:

- **Ident. No. 030-095:**
 - hybrid control panel allows "classic" operation via keyboard, as well as "modern" operation via touchscreen
 - new Quickcenter technology simplifies the task of measuring bore holes and shaft diameters
 - intelligent context menu supports the process by providing specific information and supporting the user while performing measuring tasks
 - the measurement result display provides clear organisation of large amounts of information
 - flexible data management, allowing for easy data export
- **Ident. No. 130-190:**
 - automatic correction for very high accuracy
 - suitable for measurements on the production line or in the laboratory

Delivery:

battery cartridge, charger (mains power supply adapter), standard gauge slide carrier, standard gauge slide with carbide ball Ø 5 mm, reference piece, SCS calibration certificate (DAkkS standard).

Technical data:

- Digit increment (can be pre-selected): 0.1 mm | 0.001 mm | 0.0001 mm
- Repeat accuracy of drill hole: 1 µm
- Max. battery operating time: 8 h
- Data transmission type: TLC
- With air cushion equipment: Yes



Ident. No. 130-190

Ident. No. 030-095

Length measuring range (mm)			365	615	920	365	615	920
Min./max. application area with standard gauge slide carrier			0-520 mm	0-770 mm	0-1075 mm	0-520 mm	0-770 mm	0-1075 mm
Height gauge error limit			2 + 2L/1000 (L in mm)	2 + 2L/1000 (L in mm)	2 + 2L/1000 (L in mm)	1,8 + 2L/1000 (L in mm)	1,8 + 2L/1000 (L in mm)	1,8 + 2L/1000 (L in mm)
Repetition accuracy, level (µm)			1	1	1	0.5	0.5	0.5
Perpendicularity tolerance (front) (µm)			7	9	11	7	9	11
Weight (kg)			33	37	45	33	37	45
35170...	MICRO-HITE	Ident. No.	030	060	090	-	-	-
		Price/unit, €	●	●	●	-	-	-
35170...	MICRO-HITE F	Ident. No.	035	065	095	-	-	-
		Price/unit, €	(○)*	(○)*	(○)*	-	-	-
35170...	MICRO-HITE +M	Ident. No.	-	-	-	130	160	190
		Price/unit, €	-	-	-	●	●	●

Prod. Gr. 365

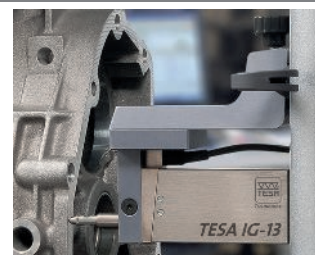


TESA Accessories for height measuring device TESA Micro-Hite and TESA Micro-Hite plus M

until model year 2016 – 35170 003/006/009, 35171 003/006/009

Application:

Ident. No. 090: For determining straightness and squareness deviations.



Ident. No. 090

Charger for Micro-Hite/ TESATRONIC	Replacement battery for TESA Micro-Hite 350/600/900 to model year 2016	Paper roll for MICRO-HITE printer and memo printer	Battery cartridge for models TESA Micro-Hite 350/600/900 to model year 2016	Electronic measuring probe FT 13 to model year 2016 When used with MI- CRO-HITE plus M, cable 35172098 is required!	Extension cable for IG 13 length 1 m
35172... Ident. No.	35172... Ident. No.	35172... Ident. No.	35172... Ident. No.	35172... Ident. No.	35172... Ident. No.
515	530	610	650	090	098
Price/unit, €		Set price, €		Price/unit, €	

Prod. Gr. 362

Mahr Digimar 816 CL height measuring device with motorised measuring slide

Application:

For measuring external, internal, height, depth and distance dimensions, as well as diameters and reversal points in bores and shafts. Also allows dynamic measurements.

Execution:

- Reset to zero at any position
- Large function keys
- Language-neutral navigation using self-explanatory symbols

- Measured value storage of up to 99 values
- Clear display with LCD display and backlighting
- Air cushion system for easy movement on the measuring plate
- Optical incremental measuring system with double reading head for outstanding precision

Delivery:

Height measuring device includes operating and display element, carrier 817 h1, gauge slide K6/51, setting block 817 eb, operating instructions, charger, USB cable, protective cover, calibration certificate

Length measuring range (mm)	350	600
Min./max. application area with standard gauge slide carrier	0-520 mm	0-770 mm
Digit increment (can be pre-selected)	0.001 mm 0.01 mm	0.001 mm 0.01 mm
Height gauge error limit	2.8 + L/300 (L in mm)	2.8 + L/300 (L in mm)
Repeat accuracy of drill hole (µm)	3	3
Repetition accuracy, level (µm)	2	2
Perpendicularity tolerance (front) (µm)	15	20
Min./max. measurement force	0.8-1.2 N	0.8-1.2 N
Max. battery operating time (h)	14	14
Data transmission type	RS232	RS232
With air cushion equipment	Yes	Yes
Weight (kg)	25	30
Ident. No.	035	060
Price/unit, €	•	•

35131...

Prod. Gr. 306



Ident. No. 035

Mahr Digimar 817 CLM height measuring device with motorised measuring slide

Application:

For measuring external, internal, height, depth and distance dimensions, as well as diameters and reversal points in bores and shafts. It is also possible to measure in two coordinate directions and to measure deviations in straightness and rectangular tolerance.

Execution:

- 1D/2D control panel with geometric functions for measurements in 1 and 2 coordinate directions
- Reset to zero at any position
- Large function keys
- Language-neutral navigation using self-explanatory symbols

- Automatic stand-by function and adjustable auto-off function with no loss of measurement values
- Clear display with LCD display and backlighting
- Air cushion system for easy movement on the measuring plate
- Optical incremental measuring system with double reading head for outstanding precision
- Update-capable

Delivery:

Height measuring device includes operating and display element, carrier 817 h1, gauge slide K6/51, setting block 817 eb, operating instructions, charger, USB cable, protective cover, calibration certificate

Length measuring range (mm)	350	600	1000
Min./max. application area with standard gauge slide carrier	0-520 mm	0-770 mm	0-1170 mm
Digit increment (can be pre-selected)	0.0001 mm 0.0005 mm 0.001 mm 0.01 mm 0.1 mm	0.0001 mm 0.0005 mm 0.001 mm 0.01 mm 0.1 mm	0.0001 mm 0.0005 mm 0.001 mm 0.01 mm 0.1 mm
Height gauge error limit	1.8 + L/600 (L in mm)	1.8 + L/600 (L in mm)	1.8 + L/600 (L in mm)
Repeat accuracy of drill hole (µm)	1	1	1
Repetition accuracy, level (µm)	0.5	0.5	0.5
Perpendicularity tolerance (front) (µm)	5	6	10
Min./max. measurement force	0.8-1.2 N	0.8-1.2 N	0.8-1.2 N
Max. battery operating time (h)	16	16	16
Data transmission type	RS232	RS232	RS232
With air cushion equipment	Yes	Yes	Yes
Weight (kg)	25	30	35
Ident. No.	035	060	100
Price/unit, €	(O)•	(O)•	(O)•

35130...

Prod. Gr. 306



Ident. No. 035

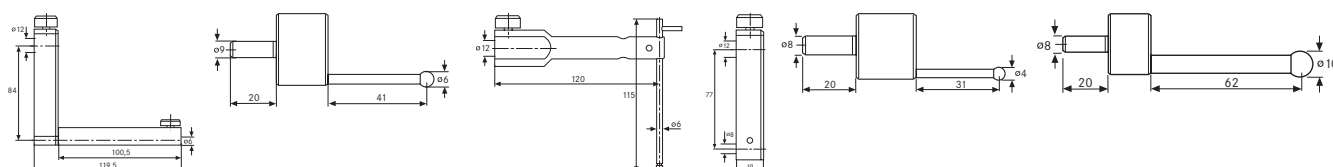
Mahr Measuring probe sets for MAHR height measuring devices

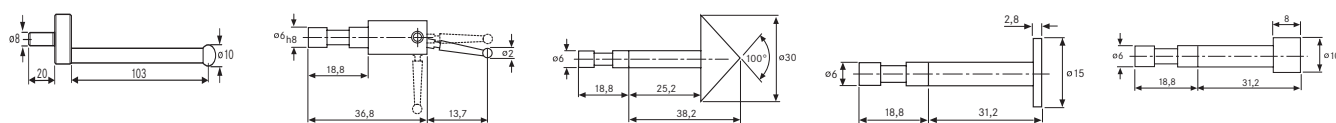
Application:

For use in MAHR height measuring devices.

Delivery:

In plastic case





Number of pieces in assortment/set (PCS)	11
Composition of set	Carrier for gauge slides disc gauge slide Ø 15 mm cylinder gauge slide Ø 10 mm conical gauge slide depth gauge carrier incl. gauge slide 800 ts Ø 2.0 mm carrier for gauge slides with location hole 8 mm ball gauge slide Ø 4.0 mm ball gauge slide Ø 6.0 mm ball gauge slide Ø 10.0 mm ball gauge slide Ø 10.0 mm
35133...	Ident. No. Price/unit, €
	020

Prod. Gr. 306

Accessories

for TESA height measuring devices



Ident. No. 020

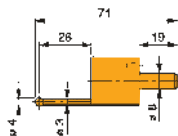
Number of pieces in assortment/set (PCS)	8	17	9
Composition of set	Gauge slide with carbide ball Ø 3 and Ø 10 solid carbide gauge slides Ø 1 Ø 2 and Ø 3 gauge slide with cemented carbide disc Ø 14 gauge slide with cylindrical measuring surface Ø 10 gauge slide with probe rod	Gauge slide with carbide ball Ø 3 and Ø 10 solid carbide gauge slides Ø 1 Ø 2 and Ø 3 gauge slide with barrel-shaped measuring surfaces Ø 2.2 Ø 4.5 Ø 9.7 gauge slide with solid carbide disc Ø 4.5 Ø 14 Ø 19 gauge slide with small cylindr. cemented carbide measuring surface gauge slide with cylindrical measuring surface Ø 10 gauge slide carrier for large depths gauge slide holder for extending the measuring range gauge slide with probe rod	Gauge slide holder probe rod for depth measurements gauge slides with steel ball 0.9 and 1.9 and 2.9 mm gauge slide with conical measuring surface extension 20 mm adapter M3 to M2.5
TESA 35172...	Ident. No. Set price, €	010	-
ORION 35172...	Ident. No. Set price, €	-	050

ORION = Prod. Gr. 3BE
TESA = Prod. Gr. 362

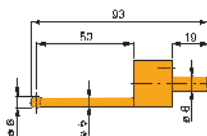
TESA Special accessories for MICRO-HITE 8-mm adapter with gauge slide carrier no. 35172 410



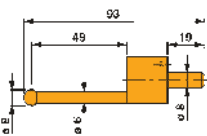
Ident. No. 410



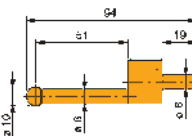
Ident. No. 424



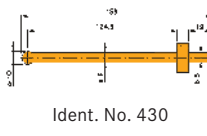
Ident. No. 426



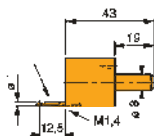
Ident. No. 428



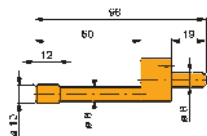
Ident. No. 429



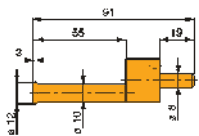
Ident. No. 430



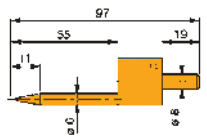
Ident. No. 435



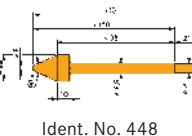
Ident. No. 440



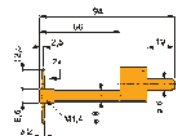
Ident. No. 444



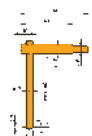
Ident. No. 446



Ident. No. 448



Ident. No. 450



Ident. No. 460

35172...	Gauge slide carrier with 8 mm mount	Ident. No. Price/unit, €	410
35172...	Spherical measuring probe, diameter 4 mm	Ident. No. Price/unit, €	424
35172...	Spherical measuring probe, diameter 6 mm	Ident. No. Price/unit, €	426

Marking-off and height measuring instruments \ Vertical height measuring devices

35172...	Spherical measuring probe, diameter 8 mm	Ident. No. Price/unit, €	428 ○
35172...	Spherical measuring probe, diameter 10 mm	Ident. No. Price/unit, €	429 ○
35172...	Spherical measuring probe, extra long, diameter 10 mm	Ident. No. Price/unit, €	430 ○
35172...	Mount for exchangeable gauge slides with thread M1.4 gauge slide diameter 1	Ident. No. Price/unit, €	435 ○
35172...	Cylindrical measuring probe, diameter 10 mm	Ident. No. Price/unit, €	440 ○
35172...	Measuring probe with measuring disc diameter 12 mm	Ident. No. Price/unit, €	444 ○
35172...	Conical measuring probe for diameters 0.5–5.5 mm	Ident. No. Price/unit, €	446 ○
35172...	Conical measuring probe for diameters 5–20 mm	Ident. No. Price/unit, €	448 ○
35172...	Mount for exchangeable gauge slides with thread M1.4 gauge slide diameter 2	Ident. No. Price/unit, €	450 ○
35172...	Adjustable depth gauge diameter 1 mm	Ident. No. Price/unit, €	460 ○

Prod. Gr. 362

ORION® 3-piece measuring probe set with ruby balls For height measuring devices

Application:

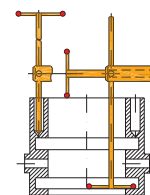
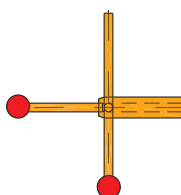
For measuring grooves, recesses, offsets, cross holes etc.

Execution:

- Probes can be clamped axially and radially

Delivery:

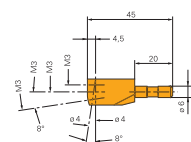
With hexagonal screwdriver in a case



Number of pieces in assortment/set (PCS)	Composition of set	35172... Ident. No.
3	T-probe: Length 100 mm 2 ruby balls diameter 2 mm ball distance 18 mm straight gauge slide: Length 100 mm ruby ball diameter 6 mm measuring probe holder: Overall length 63 mm	080 ●
		Set price, €

Prod. Gr. 3BE

ORION® Universal measuring probe assortment for MICRO-HITE/TESA-HITE height measuring devices, hardened steel



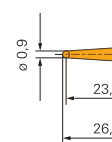
Ident. No. 300



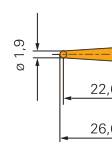
Ident. No. 310



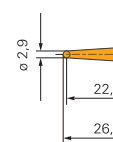
Ident. No. 320



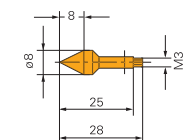
Ident. No. 330



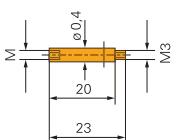
Ident. No. 340



Ident. No. 350



Ident. No. 360



Ident. No. 370–380

35172...	Gauge slide holder M3	Ident. No. Price/unit, €	300 ●
35172...	Probe rod angled 8°	Ident. No. Price/unit, €	310 ●
35172...	Probe rod, cylindrical, offset	Ident. No. Price/unit, €	320 ●
35172...	Spherical measuring probe, diameter 0.9 mm	Ident. No. Price/unit, €	330 ●
35172...	Spherical measuring probe, diameter 1.9 mm	Ident. No. Price/unit, €	340 ●
35172...	Spherical measuring probe, diameter 2.9 mm	Ident. No. Price/unit, €	350 ●
35172...	Conical measuring probe, diameter 8 mm	Ident. No. Price/unit, €	360 ○
35172...	Measuring probe extension M3 to M3	Ident. No. Price/unit, €	370 ●
35172...	Measuring probe adapter M3 to M2.5	Ident. No. Price/unit, €	380 ○

Prod. Gr. 3BE

Source: Hahn+Kolb Werkzeuge GmbH

1098 Technical data subject to change.

Availability subject to country specific rules and regulations.

www.iconridge.com

ICON RIDGE

TESA μ -HITE vertical length measuring device

Application:

to measure external, internal, height, depth, step and distance dimensions, hole and shaft diameter, as well as for parallel, radial and axial runout tolerances. ideal for measuring small workpieces in production

Execution:

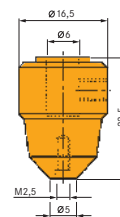
- modern hybrid control panel with touchscreen and keypad
- memory functions max., min., max-min. (for dynamic measurements)
- built-in temperature sensor
- data export using USB memory stick, TLC interface and via radio with optional accessories

Advantage:

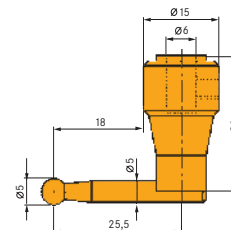
- smart operator concept
- automatic detection of reversal point at holes and shafts
- motorised measuring head for safe and quick probing
- reset to zero at any position

Technical data:

- Length measuring range: 100 mm
- Min./max. application area with standard gauge slide carrier: 0-160 mm
- Digit increment (can be pre-selected): 0.0001 mm | 0.001 mm
- Height gauge error limit: 1 μ m axial/2 μ m radial
- Min./max. measurement force: 0.63-1.0 N
- Weight: 21 kg



Axial gauge slide holder



Radial measuring probe

35175...	Ident. No.	020
	Price/unit, €	●

Prod. Gr. 365

ORION® Vee blocks made of special cast iron

Application:

For checking, marking off and aligning cylindrical parts.

Execution:

- Machined in pairs
- Vee block faces and base machined level and parallel

- No. 35180:** Finely milled
- No. 35181:** Finely ground

Delivery:
In pairs

Technical data:
Angle: 90 Degree



Length x width x height	Flatness tolerance (mm)	Min./max. workpiece Ø	35180... Ident. No.	35181... Ident. No.
50 x 40 x 30 mm	0.04	4-30 mm	005	●
75 x 40 x 30 mm	0.04	6-40 mm	007	●
100 x 40 x 30 mm	0.04	6-50 mm	010	●
150 x 50 x 40 mm	0.05	8-60 mm	015	●
200 x 70 x 50 mm	0.05	8-70 mm	020	●
50 x 40 x 30 mm	0.016	4-30 mm	-	005
100 x 40 x 30 mm	0.016	6-50 mm	-	010
150 x 50 x 40 mm	0.016	8-60 mm	-	015
200 x 70 x 50 mm	0.016	8-70 mm	-	020
			Price/pair, €	

Prod. Gr. 3BE

ORION® Pair of vee blocks Made of hardened steel

Application:

For checking, marking off and aligning cylindrical parts.

Execution:

- Machined in pairs
- Vee block faces and base machined level and parallel

- Finely ground

Delivery:
In pairs

Technical data:
Flatness tolerance: 0.004 mm
Angle: 90 Degree



Length x width x height	75 x 35 x 30 mm	100 x 47 x 40 mm	150 x 55 x 45 mm	200 x 65 x 55 mm	250 x 85 x 70 mm
Min./max. workpiece Ø	5-40 mm	5-55 mm	5-60 mm	5-75 mm	5-100 mm
35182...	Ident. No.	075	100	150	200
	Price/pair, €	●	●	●	●

Prod. Gr. 3BE