

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	35 180 Ident. N		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	•
Prod. Gr. 3BF				Price,	′pair, €	

Prod. Gr. 3BE



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	250
35162	Price/pair, €	•	•	•	•	•

Prod. Gr. 3BE

Double vee blocks made of hardened steel/INOX steel

Application:

For checking, marking off and aligning cylindrical parts.

Execution:

- With clamping bracket
- Vee block faces and base machined level and parallel
- Finely ground
- No. 35188: INOX steel

Technical data:

- Flatness tolerance: 0.004 mm
- Angle: 90 Degree



Length x width x heig	ght		50 x 40 x 40 mm	75 x 55 x 55 mm	100 x 75 x 75 mm	
Min./max. workpiece	e Ø		5-30 mm	5-50 mm	7-70 mm	
35185	in pairs	Ident. No.	031	051	071	
33 163	III pairs	Price/unit, €	•	•	•	
35186	single	Ident. No.	031		_	
33 180	Sirigle	Price/unit, €	•	_		
35186	Single	Ident. No.		051	071	
35166	Single	Price/unit, €	-	•	•	
35188	in pairs	Ident. No.	031	051	071	
33188	in pairs	Price / unit. €	•	•	•	

Prod. Gr. 3AB

Replacement clamp available on request.



1009

ATORN® Magnetic measuring and clamping vee block

For checking, marking off and aligning cylindrical

Execution:

- Level and parallel and rectangular machined
- Magnetic force can be turned on/off
- The side opposite the switch is designed as a magnetic surface

Delivery:

In a wooden case

Technical data:

- Flatness tolerance: 0.004 mm
- Angle: 90 Degree



Version			Standard	Standard	Hardened	Hardened	Hardened
Length x width x	height		80 x 67 x 96 mm	100 x 70 x 96 mm	70 x 45 x 70 mm	80 x 67 x 96 mm	100 x 70 x 96 mm
Min./max. workpiece Ø		6-66 mm	6-70 mm	2-40 mm	6-66 mm	6-70 mm	
35209	Single	Ident. No.	010	020	105	110	120
33209	Single	Price/unit, €	•	•	•	•	•
35209	In noire	Ident. No.	011	021	106	111	121
33209	In pairs	Price/pair, €	•	•	•	•	•

Prod. Gr. 3AB

Parallels with v-shaped recesses

Special cast iron

Application:

Execution: ■ Machined in pairs

For checking, marking off and aligning cylindrical parts.

■ Finely ground

Technical data:

- Flatness tolerance: 0.016 mm
- Angle: 90 Degree

Length x width x height		75 x 150 x 130 mm	90 x 200 x 170 mm
Min./max. workpiece Ø		8-120 mm	10-180 mm
35213	Ident. No.	011	021
35213	Price/pair, €	•	•



Prod. Gr. 3BE



Marking-off and surface plates (DIN 876-2)



For use as a base for control, spot-grinding and assembly tools

Execution:

• Made from special cast iron in ribbed structure

■ The 4 outer faces are finely machined

Advantage:

■ Suitable for use in a wide range of workshop processes



		Accuracy class		
Length x width x height	Flatness tolerance (µm)	Weight (kg)	35350.	
		_ , _,	Ident. N	0.
300 x 300 x 70 mm	13	18	130	•
400 x 300 x 80 mm	14	25	140	•
500 x 400 x 70 mm	15	40	150	(O) ⁺
600 x 500 x 95 mm	16	66	160	● *
800 x 500 x 95 mm	18	88	180	(O) ⁺
1000 x 600 x 120 mm	20	136	200	•
			Price /	unit €

Prod. Gr. 308



Open base frame

For marking-off and surface plates

25250	Fan 500 y 400 mlata	Ident. No.	555
35350	For 500 x 400 plate	Price/unit, €	0
35350	For 600 x 500 plate	Ident. No.	565
35350	For 600 x 500 plate	Price/unit, €	0
35350	5 000 - 500 - late		585
35350	For 800 x 500 plate	Price/unit, €	0
35350	For 1000 x 600 plate	Ident. No.	605
33330	For 1000 x 600 piate	Price / unit, €	0



Base frame in cabinet form

For marking-off and surface plates

Colour of front: Gentian blue RAL 5010Body colour: Light grey RAL 7035

Technical data:

Width x heigh	nt x depth		455 x 650 x 370 mm	500 x 650 x 420 mm	760 x 650 x 460 mm	960 x 650 x 560 mm
Number of doors (PCS)			1	1	2	2
Weight (kg)			35	42	50	60
35350	For 500 x 400 plate	Ident. No. Price/unit, €	655 (○) [†]	-	-	-
35350	For 600 x 500 plate	Ident. No. Price/unit, €	-	665 O	-	-
35350	For 800 x 500 plate	Ident. No. Price/unit, €	-	-	685 (○) ⁺	-
35350	For 1000 x 600 plate	Ident. No. Price/unit, €	-	-	-	705 (°) [†]
Prod. Gr. 308						



Fig. base frame in cabinet form including marking-off and surface plates



evenness tolerances for the JFA measuring and control plates no. 35444 - 35466

Length x width x thickness	in mm	500 x 400 x 100	600 x 500 x 120	800 x 600 x 140	1000 x 800 x 160	1200 x 800 x 190	1500 x 1000 x 220	2000 x 1000 x 250
evenness in accordance with DIN 876, accuracy level 1	μm	15	16	18	20	22	25	30
evenness in accordance with DIN 876, accuracy level 0	μm	6	6	7	8	8	10	12
evenness in accordance with DIN 876, accuracy level 00	μm	3	3	3,5	4	4	5	6
evenness in accordance with JFA accuracy level LAB	μm	1	1	2	2	2	2	2

JFA)

measuring and control plates, more precise than DIN 876

made from natural South African hard stone - Gabbro Impala

Application:

Ideal for use as a base for 1D/2D height measuring devices. Optionally available with T guide and clamping grooves or with thread inserts for a multitude of other measuring tasks requiring high basic accuracy.

Execution:

- untreated, not coloured, waxed or oiled
- non-rusting, alkaline, anti-magnetic
- optimum geometric dimensional stability
- Outer edges finely machined
- Edges chamfered for protection against damage
- underside with steel ball inserts, for statically correct storage on table bearings, individual supports and underframes
- Calibration certificate included in the scope of delivery. measurement results are based on national standards
- DAkkS calibration certificate available on request

- No. 35444: LAB accuracy: surface finely ground and lapped to maximum fineness
- No. 35461: DIN 876-1: surface finely ground and lapped
- No. 35462: DIN 876-0: Surface particularly finely ground and lapped
- No. 35466: DIN 876-00: surface finely ground and lapped

Advantage:

- carefully selected natural hard stone Gabbro Impala - with superb properties
- naturally aged, for maximum dimensional stability

Delivery:

Calibration certificate.

Notes

Measuring and control plates with other dimensions and accuracies upon request.



No. 35462 120 Hard stone plate without underframe



Hard stone plate without underframe

Length x width	x thickness		500 x 400 x 100 mm	600 x 500 x 120 mm	800 x 600 x 140 mm	1000 x 800 x 160 mm	1200 x 800 x 190 mm	1500 x 1000 x 220 mm	2000 x 1000 x 250 mm
Weight (kg)			60	110	205	385	550	990	1500
	Accuracy class								
35444	LAB	Ident. No.	050	060	080	120	150	180	210
33444	LAD	Price/unit, €	(°) ⁺	(°) ⁺	(°) ⁺	(°) ⁺	(°) ⁺	(O) ⁺	(°) ⁺
35461		Ident. No.	050	060	080	108	120	150	200
35401	<u>'</u>	Price/unit, €	(°) ⁺	●	•⁺	(°) ⁺	(°) ⁺	(O) ⁺	(°) ⁺
35462	0	Ident. No.	050	060	080	108	120	150	200
35402	0	Price/unit, €	(°) ⁺	(°) ⁺	(°) ⁺	(°) ⁺	(°) ⁺	(O) ⁺	(°) ⁺
25466	00	Ident. No.	050	060	080	108	120	150	200
35466	00	Price / unit. €	(O) ⁺	(O) ⁺	(O) ⁺	(O) ⁺	(O) ⁺	(O) ⁺	(O) ⁺

Prod. Gr. 341 see info block for flatness tolerance



base frame for measuring and control plates

in cabinet form

Application:

Sturdy underframe in cabinet form, for the secure placement of hard stone bases in production facilities and measuring rooms. The support and bearing fittings supplied allow simple and neat alignment of the hard stone plate using fine threads.

Execution:

 design for base length 600 or 800 mm with one storage compartment

- design for base length from 1000 mm with one storage compartment and one drawer
- steel support and bearing fittings with adjusting thread
- working height approx. 850 mm
- lockable hinged doors

Notes

underframe with auto-levelling spring elements and/ or vibration-damping spring elements deliverable upon request



Ident. No. 150

		Weight (kg)		
35456	For plate length 600 mm	35	ldent. No.	060
33430	Tor place length ood film	33	Price/unit, €	(O) ⁺
35456	For plate length 800 mm	45	ldent. No.	080
33430	Tor place length 600 mm	+5	Price/unit, €	(O) ⁺
35456	For plate length 1000 mm	60	ldent. No.	120
33430	Tor place length 1000 mm	00	Price/unit, €	(O) ⁺
35456	For plate length 1200 mm	70	ldent. No.	150
33430	Tor place length 1200 mm	70	Price/unit, €	(O) ⁺
35456	For plate length 1500 mm	110	ldent. No.	180
35450	For plate length 1500 mm	110	Price/unit, €	(O) ⁺
35456	For plate length 2000 mm	150	ldent. No.	210
33430	To plate length 2000 mm	130	Price/unit, €	(O) ⁺



base frame for measuring and control plates

in open design

Application:

Application:
Sturdy underframe with an open design, for the secure placement of hard stone bases in production facilities and measuring rooms. The support and bearing fittings supplied allow simple and neat alignment of the hard stone plate using fine threads.

Execution:

- steel support and bearing fittings with adjusting thread
- working height approx. 850 mm

Notes:

underframe with auto-levelling spring elements and/ or vibration-damping spring elements deliverable upon request



Ident. No. 120

		Weight (kg)		
35463	For plate length 600 mm	25	Ident. No.	060
33403	Tot plate length 600 min	25	Price/unit, €	●*
35463	For plate length 800 mm	30	Ident. No.	080
33403	Tor plate length 600 mm	30	Price/unit, €	(O) ⁺
35463	For plate length 1000 mm	40	Ident. No.	108
33403	Tot plate length 1000 mm	40	Price/unit, €	(O) ⁺
35463	For plate length 1200 mm	50	Ident. No.	120
35463	For plate length 1200 mm	50	Price/unit, €	(O) ⁺
35463	For plate length 1500 mm	70	Ident. No.	150
35463	For plate length 1500 mm	70	Price/unit, €	(O) ⁺
35463	For plate length 2000 mm	100	Ident. No.	200
33403	I of place length 2000 mm	100	Price/unit, €	(°) ⁺



Supplementary features for measuring and control plates

T-slot guide and clamping rails made from steel in line with DIN 650 for defined fixing of tailstocks, roller blocks, workpieces etc. T-slot guide and clamping groove rails are installed in measuring and control plates in longitudinal or transverse direction as required. Embedded chromium-plated surface, non-detachable and free from distortion.

Type A: T-slot rails nominal dimension 14 H12.

Type B: T-slot guide and clamping rails nominal dimension 14 H8, manufactured with precise flatness and parallelism tolerance of the two slot sides.

Metric thread inserts for mounting workpieces and equipment. Size, position and number depending on specifications, made from special steel, non-detachable and free from distortions, anchored in the measuring and control plate.

tailstocks with clamping lever or hand wheel adjustment

e.g. JFA tailstocks, tip height 150 mm with MT 3 holder, precision 0.012 mm

crankshaft vee blocks in special cast iron with 90° vee block recesses at high position. Height and side difference 0.008 mm. Also deliverable with mechanoceramic-coated vee block surfaces.

roller blocks for precise retention of cylinders, rollers, crank shafts, etc.

Type A: rigid design.

Type B: height-adjustable (± 5 mm) design.

Precision roller blocks can be pre-adjusted with high precision using gauge blocks so that the axis of a workpiece is laterally aligned and at the same height as the measuring axis.

Vacuum-mounted measuring stands for making high-precision straightness and parallelism measurements on your measuring and control plate. JFA vacuum mounting: Compressed air allows the stand to be moved precisely and easily on the measuring and control plate surface. The vacuum prevents it lifting from the lateral surface. To clamp the stand in place, the supporting air is switched off on one bearing side.

Method:

- Column: Ø 25 mm, measuring height 300 mm
- Cross arm: Ø 20, length 250 mm
- Fine adjustment device with shank holder Ø 8 mm for dial gauges, precision pointers or electronic length-measuring probes
- Operation with fine-filtered, oil- and water-free compressed air, 5 bar
- Note: To operate this JFA stand system, the top surface and at least one lateral surface of the measuring and control plate must be precisely machined.















ATORN® 90° triangular angle standards

Application:

For testing 90° angles and straightness.

Execution

- Made from natural hard stone
- Horizontally and vertically adjustable
- Diamond-lapped surface
- Ident. No. 010: The two narrow surfaces are finely machined to a high-quality finish at an angle of 90°. The remaining surfaces are finely machined

■ Ident. No. 025-040:

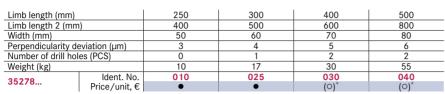
- the two narrow surfaces are finely machined to a high-quality finish at an angle of 90°. The remaining surfaces are finely machined
- weight-reducing hole(s)

Delivery:

In box

Technical data:

Accuracy class: 00







90° triangular angle standards

Made of natural hard stone

Application:

For simple and precise checking of the 90° angle. Ideal for use on hard stone bases, e.g. for checking straightness in vertical height measuring devices; also suitable as a contact surface for large components. Also suitable for checking the 90° angle e.g. in coordinate measuring instruments and machine tools.

Execution:

- Carefully selected and flawless South African hard stone material – Diabas.
- with through-bore(s) for weight reduction
- Exactly 2-sided. The two precisely shaped surfaces are finely machined to a high-quality finish to be flat and at exact angles to one another. The remaining surfaces are finely machined

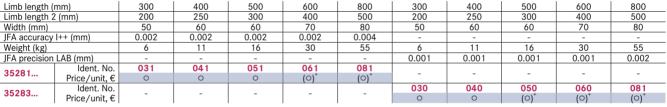
- can be used horizontally and vertically
- Calibration certificate included in the scope of delivery, measurement results are based on national standards
- DAkkS calibration certificate available on request
- No. 35281: accuracy l++: finely ground and lapped
- No. 35283: LAB accuracy: surface finely ground and lapped to maximum fineness



Calibration certificate. Measurement results are based on national standards from the German National Metrology Institute in Brunswick, Germany.

Technical data:

■ Number of drill holes: 1 PCS



Prod. Gr. 341

Lightweight design available upon request. Weight savings of over 35%.



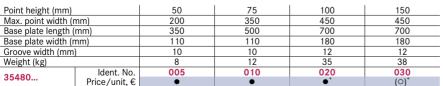
Small concentricity test devices

Application:

For measuring the axial and radial run-out precision of shafts.

Execution:

- 2 movable tailstocks and 1 measuring stand for holding a dial gauge or precision pointer
- 1 tailstock with fixed tip and 1 tailstock with movable tip, adjustable using hand lever (sleeve and centre point made from one piece)
- Evenness tolerance of measuring surfaces in line with DIN 876-2. Tailstocks with 75 mm tip height have vee block surfaces
- Location hole for a dial gauge or precision pointer 8 H 7
- Ident. No. 010: With vee block support on tailstock











Accessories

ACCESSULES
HELIOS-PREISSER for small concentricity test devices, no. 35480

Application:

Ident. No. 032-035: For use in HP small concentricity testing devices. The points replace standard tailstocks for testing non-centred and long components.



Ident. No. 032-035

Ident. No. 042-045: For use in HP small concentricity testing devices. Vee blocks are placed on the base plate instead of the tailstocks.



Ident. No. 042-045

Ident. No. 052-055: For use in HP small concentricity devices. Roller blocks with ball bearings are placed on the base plate instead of the tailstocks.



Ident. No. 052-055

Height (mm)	Max. Ø (mm)	Groove width (mm)	35482 Ident. N		Height (mm)	Max. Ø (mm)	Groove width (mm)	35482. Ident. N	
-	15	-	032	0	100	50	12	045	
-	45	-	035	0	100	30	12	055	
45	25	10	042	0				Price/	/pair,
65	25	10	052	•					

Prod. Gr. 308



Concentricity gauge

Application:

For measuring the axial and radial run-out precision of shafts.

Execution:

- Clamping table made from natural hard stone, flatness tolerance in line with DIN 876, precision 1. Adjustable 3-point table bearing rest with steel
- Tailstocks in high-quality, aged cast iron, right tailstock with movable sleeve (stroke 20 mm), adjusted using hand lever. Left tailstock with fixed sleeve. Finely ground surfaces.

■ Centring points replaceable thanks to MT 2 socket with standard pressure fixture

Delivery:

1 clamping table, 1 measuring stand, 1 pair of tailstocks with a 60° MT 2 centring point

Technical data:

- Point height: 200 mm
- Max. point width: 650 mm
- Base plate length: 1100 mm
- Base plate width: 180 mm
- Groove width: 14 mm
- Weight: 135 kg



35485... Prod. Gr. 308

Ident. No. Price/unit, €

Concentricity test bench, without centre point With disc brackets, height adjustable

Application:

For rational testing of outer and inner surfaces of rotationally symmetrical parts during production and in measuring rooms.

Execution:

- Both disc brackets can be moved on the base plate
- Fixed in the required position using a lever

■ The height of one bracket can be adjusted by max. 30 mm to compensate for different diameters in the parts being tested

100

Advantage:

- Play-free roller discs bearings guarantee concentricity tolerances of < 5 µm
- Workpieces can be easily rotated without force

Delivery:

Without measuring stand, without dial gauge

Min. workpiece Ø (mm)		2	2
Max. Ø of workpiece (mm)		240	240
Max. workpiece weight (kg)		25	25
Concentricity tolerance (µm)		5	5
Base plate length (mm)		500	1000
Groove width (mm)		14	14
35490	Ident. No.	050	100
35490	Price / unit. €	(O) ⁺	(O) ⁺

Prod. Gr. 378



Twist drill grinding gauges

Application:

For inspecting the tip angle (118°) of twist drills

Execution:

- Suitable for drills up to 50 mm
- Grinding gauge angle 121° (produces tip angle 118°)

36001...

Prod. Gr. 3BF







ORION® Chamfer vernier callipers

Application:

For inspecting chamfer angles and dimensional accuracy

Execution:

With interchangeable inspection straight edges for 30°, 45° and 60° chamfers

Delivery:

In wooden case

Technical data:

- Min./max. length measuring range: 0-10 mm
- Vernier scale: 0.1 mm

Ident. No. 010 Price/unit, €



Prod. Gr. 3BF

36030...

nrin	N ®	radius gauges
		concave and convex

pli	cati	on:			Execution:

F.F. San	
For testing inner and outer radii	Blades fixed with clamping screws

Number of sheets (PCS)	neets (PCS) 34 32		2	3	0		
Radius sizes in assortment	by 0.25 r mm, incr			i, 3.5-7 7.5-15 mm, in- incre sing by creasing by 0.5 mm mm		15.5-20 mm, increasing by 0.5 mm, 21-25 mm, increasing by 1 mm	
Cutting edge length (mm)	70		85		85		
Material	36130		36131		36132		
	Ident. No.		Ident. No.		Ident. No.		
Steel	010	•	010	•	010	•	
Stainless steel	020	•	020	•	020	•	
	Set price, €						



No. 36130

Prod. Gr. 3BF

Thread pitch gauges

Application:

For testing thread pitch using the light gap method

Execution:

- No. 36053: For metric threads, Whitworth threads
- No. 36054: For metric threads, Whitworth threads and Whitworth pipe threads



No. 36053



No. 36054

Number of sheets (PCS)			36054 Ident. No.	
	Ident. N	0.	Ident. N	0.
52	011	•	-	-
58	-	-	011	•
		Price/	′unit, €	

Prod. Gr. 3BF

RION® Thread cutting gauges

Application:

For testing flank angles of thread cutting tools.

Execution:

■ No. 36060: For 55° Whitworth threads

■ No. 36061: For 60° metric threads

36060	Ident. No.	011
30000	Price/unit, €	•
36061	Ident. No.	011
30001	Price/unit, €	•



No. 36060

Prod. Gr. 3BF

DRION® Thread lathe tool gauge

Application:

For inspecting thread cutting tools

Execution:

36075...

Prod. Gr. 3BF

■ With recesses for square threads, 2-8 starts per 1"

Ident. No. Price/unit, €

■ Sharp V thread 55° and 60°

2-12 mm ■ Flank angle 30°

TOLERATOR/FILETOR

display unit for tolerances and thread data

Application:

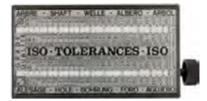
Ident. No. 011: For direct reading of all ISO tolerances up to a nominal dimension of 500 mm Ident. No. 020: For direct reading of all standard specifications for determining threads and core hole diameters.

Execution:

■ Ident. No. 011: Printed in multiple languages

■ Trapezoidal thread in line with DIN 103, pitch

010



Ident. No. 011



Ident. No. 020

36095	TOLERATOR	Ident. No.	011
30095	TOLERATOR	Price/unit, €	•
36095	FILETOR	Ident. No.	020
30095	FILETOR	Price/unit, €	•

Prod. Gr. 361

Welding seam gauges

Application:

No. 36155 010, 36165 010: For measuring flat welded seams in corners and seam angles 60°, 80° and 90°

No. 36160: For rapid inspection of welded seam dimensions

Execution:

Made of hardened stainless steel



No. 36155

■ No. 36155:

- Vernier scale and scale with brushed chromium-plated finish
- Locking screw
- No. 36165:
- ON/OFF
- mm/inch switch-over
- Reading precision +/- 0.01 mm



No. 36160



No. 36165

Min./max. length measuring range	0-20 mm	-	0-20 mm
Vernier scale	0.1 mm	-	-
Scale value (mm)	-	0.01	-
Digit increment (mm)	-	-	0.01
	36155	36160	36165
	Ident. No.	Ident. No.	Ident. No.
	010	010	010
		Price /unit €	



ORION® Feeler gauges

Application:

Suitable for inspecting gap dimensions and setting clearances.

Execution:

■ Gauge blades made from hardened spring steel

- Conical
- Can be fixed in sheath

Notes:

Cannot be calibrated

	Min./max. length of application area	Nominal dimension in assortment	Number of sheets (PCS)	Length (mm)	Width (mm)		
36180	0.04-0.15 mm	0.04-0.10 mm, increasing by 0.01 mm, 0.15 mm	8	100	13	Ident. No. Set price, €	010 •
36181	0.05-0.5 mm	0.05-0.3 mm, increasing by 0.05 mm, 0.4 mm, 0.5 mm	8	100	13	Ident. No. Set price, €	010
36182	0.05-1 mm	0.05-0.3 mm, increasing by 0.05 mm, 0.4-1.0 mm, increasing by 0.1 mm	13	100	13	Ident. No. Set price, €	010
36183	0.05-1 mm	0.05-1.0 mm, increasing by 0.05 mm	20	100	13	Ident. No. Set price, €	010 •
36184	0.1-2 mm	0.1-2.0 mm, in- creasing by 0.1 mm	20	100	13	Ident. No. Set price, €	010 •

Prod. Gr. 3BF



Feeler gauges (DIN 2275)

precision design

Application:

Suitable for inspecting gap dimensions and setting clearances.

Execution:

- Gauge blades made from hardened spring steel
- Conical
- Can be fixed in nickel-plated sheath



Min./max. length of application area	0.05-0.5 mm	0.05-1 mm	0.05-1 mm
Nominal dimension in assortment	0.05-0.3 mm, in- creasing by 0.05 mm, 0.4 mm, 0.5 mm	0.05-0.3 mm, increasing by 0.05 mm, 0.4-1.0 mm, increasing by 0.1 mm	0.05-1.0 mm, increasing by 0.05 mm
Number of sheets (PCS)	8	13	20
Length (mm)	100	100	100
Width (mm)	13	13	13
	36189	36189	36189
	Ident. No.	Ident. No.	Ident. No.
	008	013	020
	Set price, €		

Prod. Gr. 3BF



Application:

Suitable for inspecting gap dimensions and setting clearances.

Execution:

- Brass gauge blades
- Conical
- Can be fixed in nickel-plated sheath

	Min./max. length of application area	Nominal di- mension in assortment	Number of sheets (PCS)	Length (mm)	Width (mm)		
36196	0.1-0.8 mm	0.1-0.4 mm, in- creasing by 0.05 mm, 0.5 mm, 0.6 mm, 0.7 mm, 0.75 mm, 0.8 mm	12	100	13	ldent. No. Set price, €	010





Suitable for inspecting gap dimensions and setting

Execution:

■ Gauge blades made from hardened spring steel

■ Blades held in ring

	Min./max. length of application area	Nominal di- mension in assortment	Number of sheets (PCS)	Length (mm)	Width (mm)		
36201	0.05-1 mm	0.05-0.3 mm, increasing by 0.05 mm, 0.4- 1.0 mm, increasing by 0.1 mm	13	300	13	ldent. No. Set price, €	010 •
36202	0.1-2 mm	0.1-2.0 mm, in- creasing by 0.1 mm	20	300	13	ldent. No. Set price, €	010 •



No. 36201

Prod. Gr. 361

DRION® Feeler gauge strips, dimensions 13 mm x 5 m

Application:

For use in various areas of mechanical engineering, e.g. measuring dimensional tolerance between 2 components, as alignment references etc.

Execution:

- Made from high carbon steel, hardened
- Suitable for feeler gauge assortment in wall

■ Ident. No. 008-100: Gauge strip marked with

Delivery:

In can

Technical data:

Length: 5 m Width: 12.7 mm



Nominal thickness (mm)	36225 Ident. No.	Nominal thickness (mm)	36225 Ident. No.	
0.01	001	0.35	035	
0.02	002	0.4	040	
0.03	003	0.45	045	
0.04	004 ●	0.5	050 ●	
0.05	005 ●	0.55	055 ●	
0.06	006 ●	0.6	060 ●	
0.07	007 ●	0.65	065 ●	
0.08	008 ●	0.7	070	
0.09	009	0.75	075 ●	
0.1	010 ●	0.8	080	
0.12	012	0.85	085 ●	
0.15	015	0.9	090	
0.18	018 ●	0.95	095 ●	
0.2	020 ●	1	100	
0.25	025 ●		Price/unit, €	
0.3	030		·	

RION® Feeler gauge strip assortment in wall support

The organisation system for your workshop

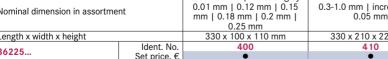
Application:

For use in various areas of mechanical engineering, e.g. measuring dimensional tolerance between 2 components, as alignment references etc.

Execution:

- Practical holder for clamping sections of feeler gauge strip
- 15 feeler gauge cans 12.7 mm x 5 m
- Wall-mounted holder made of sheet steel, paint: RAL 7035, light grey

Min./max. length of application	area	0.01-0.25 mm	0.30-1.00 mm
Nominal dimension in assortmen	nt	0.01-0.1 mm increasing by 0.01 mm 0.12 mm 0.15 mm 0.18 mm 0.2 mm 0.25 mm	0.3-1.0 mm increasing by 0.05 mm
Length x width x height		330 x 100 x 110 mm	330 x 210 x 220 mm
24225	Ident. No.	400	410
36225	Set price €	•	•







DRION Feeler gauge strip assortment in wall support INOX

RAL 7035, light grey

The organisation system for your workshop

Application:

For use in various areas of mechanical engineering, e.g. measuring dimensional tolerance between 2 components, as alignment references etc.

Execution:

- Practical bracket for clamping sections of feeler gauge strip
- 15 feeler gauge cans 12.7 mm x 5 m STAINLESS STEEL

Technical data:

■ Min./max. length of application area: 0.01-0.25 mm

• Wall-mounted holder made of sheet steel, paint:

- Nominal dimension in assortment: 0.01-0.1 mm. increasing by 0.01 mm | 0.12 mm | 0.15 mm | 0.18 mm | 0.2 mm | 0.25 mm
- Length x width x height: 330 x 100 x 110 mm





Ident, No. Price/unit, € 420

Prod. Gr. 3BF



Underlay foils in precision design Standard widths 12.7/50/100/150/300 mm

Application:

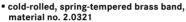
For setting up tools, adjusting devices, compensating for tolerances, supporting instruments, aligning machines, setting up forms, adjusting bearing play, adjusting composite units, readjusting cutting blades, aligning workpieces, etc.

The following materials are available:

■ hardened spring steel, material no. 1.1274 With a carbon content of over 1%, this material is ideally suited for feeler gauge bands, support sheets and springs subject to high loads for which there are no corrosion requirements. This material is magnetic.

cold-rolled INOX spring steel, material no. 1.4310

This material is an alloy of 17% chromium and 7% nickel and has good corrosion resistance. This material is cold-rolled to achieve high strength. The material is therefore ideal for stainless precision gauge bands, underlay foils, stainless steel springs and higher-strengths parts. This material is only slightly magnetic and therefore cannot be clamped when grinding on magnetic chucks.



With a composition of 63% copper and 37% zinc, this material is the standard grade for spring-tempered rolled brass. This material is not magnetic.



Bore plug gauge

Application:

For measuring bores

Execution:

- Knurled handle
- Hardened and ground bolt Min /may langth magazing

- Technical data: Scale value: 0.1 mm
- Material: Stainless steel
- Taper ratio: 01:10

range		1-6 mm	4-15 mm	15-30 mm	30-45 mm
24240	Ident. No.	010	040	150	300
36360	Price/unit, €	•	•	•	0

Prod. Gr. 361

Wedge gauge

Application:

For measuring gaps and clearances

Execution:

■ Made from hardened steel, hard-chrome plated

Advantage:

Fast and reliable reading of measured values

Technical data:

- Scale value: 0.1 mm
- Material: Steel

Min./max. length measuring rai	nge	0.5-7 mm	0.5-11 mm
24270	Ident. No.	010	020
36370	Price/unit, €	•	•
D 1 0 0/4			

Metric drill gauge

Application:

For quickly determining drill and mill diameters.

Execution:

■ Made from special steel, nitrided

36380...

Prod. Gr. 361

Technical data:

- Min. diameter of measuring range: 0.1 mm
- Max. diameter of measuring range: 10 mm
- Pitch: 0.1 mm
- Number of holes: 100 PCS



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ATORN® Folding rule

Execution:

- Angle scale
- Decimal numbers in white/black
- Brass end caps

■ Sturdy joints

Advantage:

First segment with identical graduation on both sides





	Length (m)	Width (mm)	Number of chain links (PCS)	Material	Accuracy class		
37331	2	14	10	Wood	III	Ident. No.	010
3/331	2	16	10	Wood	III	Price/unit, €	•

Prod. Gr. 3AA

Folding rules

Execution:

- No. 37315:
- Black anodised
- Graduation embedded in anodised layer
- Decimal numbers in white
- No. 37330: Decimal numbers in black
- No. 37330-37340: Brass end caps
- No. 37332-37340: Durable, sturdy joints
- No. 37332-37350: Decimal numbers in black/red

- No. 37350:
- Reinforced with fibre glass
- 90° angle locking
- Extremely durable
- No. 37360:
 - Longitudinal fibre glass coating
- Undetachable metal ends on first and last section

Advantage:

■ No. 37360: High rigidity



No. 37315

No. 37330

No. 37332

No. 37340

No. 37350

No. 37360

		Length (m)	Width (mm)	Number of chain links (PCS)	Material	Accuracy class		
BMI	37315	2	14	10	Light metal	II	Ident. No. Price/unit, €	010 •
BMI	37330	2	16	10	Wood	III	Ident. No. Price/unit, €	010 •
BMI	37332	2	16	10	Wood	III	Ident. No. Price/unit, €	005 •
BMI	37340	2	16	10	Wood	III	Ident. No. Price/unit, €	005 •
wiha 🖷	37350	1	13	10	Plastic	III	Ident. No. Price/unit, €	010 •
wiha 👄	37350	2	15	10	Plastic	III	Ident. No. Price/unit, €	020
wiha 👄	37360	2	15	10	Plastic	II	Ident. No. Price/unit, €	010

Prod. Gr. 373



Tape measure



Application:

For measuring distances with mm precision

Execution

- Convex curved stainless steel
- Abrasion-resistant stoved enamel coating
- Highly flexible
- Stopper function

- Rolls out to a full-length, non-kinking, non-breakable 2 meter rule
- Instantly to hand
- Unrolls automatically
- Automatic stop
- Belt clip

	Length (m)	Width (mm)		
27205	2	1.6	Ident. No.	011
37305	2	10	Price / unit. €	•

Prod. Gr. 3BL

ATORN® tape measure



Application:

For measuring distances with mm precision

Execution

- ergonomic, robust plastic housing made of ABS
- with practical belt loop
- self-locking system (automatic tape locking); the tape is automatically retracted when the stop button is activated
- durable return mechanism for the tape
- steel tape, painted white, with additional polyamide coating for optimum protective properties
- mm graduation in line with accuracy class EC II and CE marking
- Screwed-on belt clip



Ident. No. 055-085



	Without magnet	Without magnet	Without magnet
Length (m)	3 5		8
Width (mm)	16	19	25
	37003	37003	37003
	Ident. No.	Ident. No.	Ident. No.
	035	055	085
	Price /unit €		

Prod. Gr. 3AA



pocket tape measures

In chrome look



Application:

For measuring distances with mm precision

Execution:

- Housing made of impact-resistant ABS, with softfeel components
- Automatic tape retract, tape lock mechanism
- Wide, deeply curved tape for high stability
- Housing with clip
- With CE marking





	Length (m)	Width (mm)		
37017	3	16	ldent. No.	020
	0	10	Price/unit, €	•
37018	5	19	Ident. No.	020
		19	Price/unit, €	•
37019	8	25	Ident. No.	020
		25	Price / unit. €	•

Prod. Gr. 371



tape measure



Application:

For measuring distances with mm precision

Execution:

- compact, robust plastic housing made of ABS
- automatic tape rewind

- with tape lock and additional quick stop button on underside of housing
- steel tape, painted white, with mm graduation in line with accuracy class EC II and CE marking
- Screwed-on belt clip



Length (m)	:	2	;	3		5
Width (mm)	1	13 13		1	9	
			37005		37005.	
	Ident. No.		dent. No. Ident. No.		Ident. N	0.
	025	•	035	•	055	•
			Drice	/unit £		

Prod. Gr. 3BL



pocket tape measures

with viewing window



Application:

For measuring distances with mm precision

Execution:

- Direct reading of internal and external dimensions
- No. 37025:



With fold-out compass tip



■ Robust polyamide housing

- Fold-out compass point for marking-off and drawing arcs
- Tape lock

■ No. 37027:

- Impact-resistance plastic housing
- Automatic tape retract



No. 37025



Length (m)	;	3	:	2	.	3
Width (mm)	16		13		1	3
	37025 Ident. No).	37027 Ident. No		37027 Ident. No	
	030	•	020	•	030	•
			Price,	′unit, €		

Prod. Gr. 371



circumferential tape measures

for circumference and diameter

Application:

For measuring circumferences and outer diameters

Execution:

- With 2 graduations on the front for reading circumferences and average diameters simultaneously
- No. 37086: Made of INOX spring steel

 No. 37087: Made of INOX spring steel, black, plastic-coated

Technical data:

- Scale value: 0.1 mm
- Width of band: 16 mm



No. 37086



No. 37087

Min./max. circumference of measuring range	nge Min./max. Ø of measuring range Ide				 0.
60-950 mm	20-300 mm	010	•	010	•
940-2200 mm	300-700 mm	020	•	020	•
2190-3460 mm	700-1100 mm	030	•	030	•
3450-4720 mm	1100-1500 mm	040	•	040	•
4710-5980 mm	1500-1900 mm	050	•	050	0
5970-7230 mm	1900-2300 mm	060	•	060	0
			Price,	/unit, €	

Prod. Gr. 371



tape rules

on a reel

Application:

No. 37038–37047: For measuring distances with mm precision

No. 37048: For measuring distances with cm precision

Execution:

- On aluminium reel
- Impact-resistant plastic grip
- Crank arm can be easily and quickly remounted from the right side to the left
- $\hfill \blacksquare$ For right-handed and left-handed use

- Two ball bearings guarantee smooth unwinding and winding
- Scale starts after approx. 10 cm
- Flextop tape end prevents tape breaking
- No. 37038: Steel tape rule, painted white
- No. 37038-37047: Continuous mm graduation
- No. 37047: Plastic-coated steel tape rule, yellow
- No. 37048:
- Fibre glass tape rule, yellow
- Continuous centimetre graduation

Technical data:

■ Width: 13 mm



No. 37038



No. 37047

Length (m)	37038 37				37048.	
	Ident. N	lo.	Ident. N	0.	Ident. N	0.
20	020	•	020	•	021	0
30	030	•	030	•	031	•
50	050	•	050	•	051	•
	Price/unit, €					





Application:

No. 37051: For measuring distances with cm precision

No. 37052–37054: For measuring distances with mm precision

Execution:

- Highly impact-resistant plastic capsule
- SoftFinish surface (similar to sprayed rubber coating)
- Flextop tape end prevents tape breaking

- Scale starts after approx. 10 cm
- No. 37051:
- Fibre glass tape rule, yellow
- Continuous centimetre graduation
- No. 37052: Steel tape rule, painted white
- No. 37052-37054: Continuous mm graduation
- No. 37054: Stainless steel

Technical data:

■ Width: 13 mm



No. 37052-37054



No. 37052 The crank is very easy to reassemble on the other side e. g. for left-handed people

Length (m)	37051.		37052.		37054 Ident. No.	
	Ident. N	0.	Ident. N	0.	Ident. N	0.
10	011	•	010	•	010	•
20	021	•	020	•	020	•
30	031	•	030	•	030	•
50	-	-	050	•	050	•
		Price/unit, €				

Prod. Gr. 371

BOSCH Multipurpose line laser

Application:

for simultaneous marking, alignment and levelling in interior applications

Execution:

- app control possible
- reference lines visible in 360°
- Ident. No. 032: Simultaneous horizontal and vertical levelling

Advantage:

- Ident. No. 032:
 - Green laser lines offer up to four times better visibility than red lines
 - Dual Power Source technology: Can be operated with a 12V Li-ion battery or standard alkaline batteries
- Controlling the tool on an app prevents inaccuracies

Delivery:

Ident. No. **031:** Universal mount BM 1, 1 x battery 12 V/2 Ah, charger GAL 1230 CV, homing board, cloth bag, L-Boxx 136

Ident. No. 032: 1x 12 V/2 Ah battery, quick charger GAL 1230 CV, universal mount BM1, homing board, cloth pouch in L-Boxx

Technical data:

- Coverage distance: 120 m
- Levelling measuring accuracy (+/- per length): 0.2 mm/m
- Self-levelling range (+/-): 4 Degree
- Levelling time: 4 s
- Laser category: 2
- IP protection class: IP 54



Ident. No. 031



Ident. No. 032

Model		GLL 3-80 C	GLL 3-80 CG
20202	Ident. No.	031	032
38382	Price/unit, €	•	•

Execution:

- Horizontal and vertical laser lines, as well as two-centric solder points with optimal visibility
- Ident. No. 040: Position the laser lines around the solder points

Advantage:

■ Ident. No. 042:

- Best used with Bluetooth connection in combination with Levelling Remote app to position the tool on your smartphone
- Dual Power Source technology: Can be operated with a 12V Li-ion battery or standard alkaline batteries

Delivery:

Ident. No. 040: 3x AA batteries, rotating mount RM1, homing board, protective case, L-Boxx insert; in box

Ident. No. 042: 4x AA batteries, battery adapter, rotating mount RM 2, construction tripod BT 150, protective case, homing board; in cardboard packaging

Technical data:

- Self-levelling range (+/-): 4 Degree
- Levelling time: 4 s
- Laser category: 2
- IP protection class: IP 54



Ident. No. 040



Ident, No. 042

Model		GCL 2-15	GCL 2-50 C
Length (mr	n)	146	136
Width (mm)	117	55
Height (mn	n)	83	122
38382	Ident. No.	040	042
	Price/unit, €	•	•

Prod. Gr. 731

Cross-line laser micro CL-100

Application:

For simultaneous alignment and levelling in interior applications

Execution:

- Single button operation
- Immediate projection of extremely bright vertical and horizontal lines
- Integrated 360° turntable
- Adjustable tripod and laser enhancing glasses

Delivery:

In plastic case, 3x AAA batteries, laser enhancing glasses, tripod

Technical data:

- Coverage distance: 30 m
- Levelling measuring accuracy (+/- per length): 0.2 mm/m
- Self-levelling range (+/-): 6 Degree
- Laser category: 2 IP protection class: IP 54 ■ Width: 45 mm
- Height: 60 mm

Price/unit, €

Ident. No. 100



38382.. Prod. Gr. 412

Laser distance measuring instruments

Application:

Ident. No. 031, 151: for non-contact measurement of lengths, areas and

Ident. No. 091-100: For non-contact measurement of lengths, areas and volumes.

Execution:

- Ident. No. 031: Illuminated three-line display for optimal readability
- quick and easy alignment, especially outdoors and over long distances
- quick access to required functions + voice guidance + help function
- data transfer to the Bosch Measuring Master app

Advantage:

- Ident. No. 031:
- fast and accurate measurement thanks to the visible laser target point





Ident. No. 091

Very easy to operate with a single function key

- Memory function allows easy access to last ten measurements
- Ident. No. 091-100:
- Enormous savings of time and money
- Fast and accurate measurement thanks to the visible laser target point
- Ident. No. 100: Integrated rechargeable lithium-ion battery for high battery life: up to 25,000 measurements per battery charge

Ident. No. 031: 2x AAA batteries, protective case

Ident. No. 091: Measuring instrument, batteries, manufacturer certificate, protective case

Ident. No. 100: Measuring instrument, batteries, manufacturer certificate, protective case, charger

Ident. No. 151: bare tool, cloth pouch, operating instructions, manufacturer's certificate, wrist strap, micro-USB cable





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Ident. No. 151



Model	el		GLM 50 C	GLM 80	GLM 120 C
Coverage distance (m)		40	50	80	120
Measuring accuracy		+/- 1.5 mm	+/- 1.5 mm	+/- 1.5 mm	+/- 1.5 mm
IP protection class		IP 54	IP 54	IP 54	IP 54
Laser category		2	2	2	2
Measuring functions		Length measurement Area measurement	Angle and distance measure- ment Length measurement Area measurement Volume measurement Continuous measurement	Volume measurement Area measurement Length measurement Continuous measurement Timer function	Volume measurement Area measurement Length measurement Continuous measurement Timer function
With addition/subtraction		Yes	Yes	Yes	Yes
Tilt sensor (Degree)		-	-	360	360
Space calculation		Yes	Yes	Yes	Yes
Automatic switch-off		Yes	Yes	Yes	Yes
Indirect measurement		Yes	Yes	Yes	Yes
With tripod socket		Yes	Yes	Yes	Yes
Measured value memory		Yes	Yes	Yes	Yes
Length x width x height		105 x 41 x 24 mm	106 x 45 x 24 mm	111 x 51 x 30 mm	142 x 64 x 28 mm
Display rotate automatically		-	Yes	Yes	Yes
Weight (g)		100	100	140	210
37065	Ident. No. Price/unit, €	031	091 •	100	151 •

Prod. Gr. 731

DRION® Laser distance measuring instruments

Application:

For non-contact measurement of lengths, areas and volumes.

 Fast and accurate measurement thanks to the visible laser target point

Advantage:

Enormous savings of time and money

Delivery:

Measuring instrument, batteries, operating instructions, protective case

Coverage distance (m)		40	100
Measuring accuracy		+/- 2 mm	+/- 2 mm
IP protection class		IP 54	IP 54
Laser category		2M	2M
Measuring functions		Continuous measurement Area measurement Volume measurement Length measurement	Continuous measurement Area measurement Volume measurement Length measurement
With addition/subtraction		Yes	Yes
Space calculation		Yes	Yes
Automatic switch-off		Yes	Yes
Indirect measurement		Yes	Yes
With tripod socket		Yes	Yes
Measured value memory		No	No
Length x width x height	Length x width x height		121 x 56 x 28 mm
Weight (g)		150	150
37062	Ident. No.	040	100
37002	Price/unit, €	•	•



Prod. Gr. 371

Leica DISTO™ Laser distance measuring instruments

Application:

Ident. No. 004: for non-contact measurement of lengths, areas and volumes. Ident. No. 023–035: For non-contact measurement of lengths, areas and volumes.

Advantage:

- Ident. No. 004:
 - extensive time and cost savings
- fast and accurate measurement thanks to the visible laser target point



Ident. No. 004

- Ident. No. 023-035:
- Enormous savings of time and money
- Fast and accurate measurement thanks to the visible laser target point
- Ident. No. 035:
- Integrated camera for length measurement using photos
- Leica DISTO™ sketch app creates floor plans based on measured data

Delivery:

Leica DISTO™, bag, batteries, wrist strap, operating instructions



Ident. No. 023



Ident. No. 035

Measuring aids \ Laser distance measuring instruments

Model		D2	D510	D810
Coverage distance (m)		100	200	200
Measuring accuracy		+/- 1.5 mm	+/- 1 mm	+/- 1 mm
IP protection class		IP 54	IP 65	IP 54
Laser category		2	2	2
Measuring functions		Volume measurement Area meas- urement Length measurement	Volume measurement Area meas- urement Length measurement Continuous measurement Angle and distance measurement Trape- zoid measurement Timer function Height profile measurement	Volume measurement Area meas- urement Length measurement Continuous measurement Angle and distance measurement Trape- zoid measurement Timer function Height profile measurement
With addition/subtraction		Yes	Yes	Yes
With homing device		No	Yes	Yes
Tilt sensor (Degree)		-	360	360
Space calculation		Yes	Yes	Yes
Automatic switch-off		Yes	Yes	Yes
Indirect measurement		Yes	Yes	Yes
With tripod socket		Yes	Yes	Yes
Measured value memory		Yes	Yes	Yes
Length x width x height		116 x 44 x 26 mm	134.5 x 55 x 30 mm	164 x 61 x 31 mm
Weight (g)		100	198	238
37060	Ident. No.	004	023	035
3/000	Price/unit, €	•	•	•

Prod. Gr. 376

ORION® Rulers



Execution:

- Made of INOX spring steel
- Small cross-section for flexible design
- All edges ground and burr-free
- Anti-glare, matt surface
- Graduations insensitive to many chemicals, greases and oils
- No. 37101: 2 scale graduations: Scale graduation 1 mm top and bottom
- No. 37102: 2 scale graduations: Scale graduations top 0.5 mm/bottom 1 mm

Technical data:

■ Accuracy class: II

Length (mm)		150	200	300	500	1000	2000
Cross-section lengt width	th x cross-section	13 x 0.5 mm	13 x 0.5 mm	13 x 0.5 mm	18 x 0.5 mm	18 x 0.5 mm	18 x 0.5 mm
	ldent. No.	015	020	030	050	100	200
37101	Price/unit, €	•	•	•	•	•	•
37102	Ident. No.	015	020	030	050	100	200
37 102	Price/unit, €	•	•	•	•	•	•

Prod. Gr. 3BG

Rulers



Execution:

- Made of INOX spring steel
- Wide cross-section for rigid design
- 2 scale graduations: Scale graduation 1 mm top and bottom
- No. 37151: Anti-glare, matt surface

 No. 37152: Highly anti-glare, brushed chromium-plated surface

Technical data:

Accuracy class: II

Length (mm)		300	500	1000	1500	2000	1500	2000
Cross-section leng	th x cross-sec-	30 x 1 mm	35 x 1.5 mm	35 x 1.5 mm				
37151	Ident. No.	030	050	100	150	200		
3/101	Price/unit, €	•	•	•	•	•	-	-
37152	Ident. No.	030	050	100			150	200
3/132	Price/unit, €	•	•	•	_	-	•	•

Prod. Gr. 373

ATORN® Light metal scale



Execution:

- Made of anti-glare, anodised aluminium alloy
- Graduation with scale interval 1 mm
- Boldly coloured decimal numbers
- Suspension hole
- Lightweight and corrosion-resistant

Advantage:

- With convenient recessed handle for improved handling
- Inking edge to avoid smearing when drawing
- Contrasting print is particularly easy to read and anti-glare

Technical data:

- Cross-section length x cross-section width: 50 x 5 mm
- Accuracy class: II

Length (mm)		300	400	600	1000
27170	Ident. No.	030	040	060	100
37170	Price / unit. €	•	•	•	•

Prod. Gr. 3AA

-1-2-3-4-5 6 7 8 9 10 11 12

ATORN :

Rulers (DIN 866)



Execution:

- Graduation with scale interval 1 mm
- Ground and aligned top edge for use as a ruler

■ No. 37200: Steel

■ No. 37201: Made of INOX steel

Length (mm)		500	1000	1500	2000	3000	4000
Cross-section length width	x cross-section	25 x 5 mm	30 x 6 mm	30 x 6 mm	40 x 8 mm	40 x 8 mm	50 x 10 mm
Weight (kg)		0.5	1.4	2.1	5	7.5	15.7
37200	Ident. No.	050	100	150	200	300	400
3/200	Price/unit, €	•	•	●	(O) ⁺	(°) ⁺	(°) ⁺
37201	Ident. No.	050	100	150	200	300	400
3/201	Price/unit, €	•	•	●	(O) ⁺	(°) ⁺	(O) ⁺

Prod. Gr. 373

Steel rulers

With test report



Execution:

- Rectangular section
- Test surfaces finely sanded
- Straightness of test surfaces according to DIN 874
- No. 37420-37425: Top edges finely ground, flat sides cleanly ground
- No. 37435-37436: Top edges finely ground and calibrated, flat side precision-ground. Rulers up to

1500 mm have rectangular section, rulers above 2000 mm have a double-T section and 2 hand slots

■ No. 37450-37451: Precision design: top edges and flat sides precisely machined, ground and calibrated. Rulers up to 1500 mm have rectangular section, rulers above 2000 mm have a double-T section and 2 hand slots



		Accuracy class	11		l II		l l				0		0	
	Material				Stainless steel		Steel		Stainless steel		Steel		Stainless steel	
Length (mm)	Cross-section length x Weight (kg)			37420		37425			37436		37450		37451	
5 ()	cross-section width	3 (3)	Ident. I	Vo.	Ident.	No.	Ident. I	Vo.	Ident. I	No.	Ident. I	۷o.	Ident. No.	
500	30 x 6 mm	0.7	050	•	050	•	-	-	-	-	-	-	-	-
500	40 x 8 mm	1.3	-	-	-	-	050	•	050	•	-	-	-	-
500	50 x 10 mm	2	-	-	-	-	-	-	-	-	050	•	050	•
750	40 x 8 mm	2	-	-	075	•	-	-	-	-	-	-	-	-
750	50 x 10 mm	3	-	-	-	-	-	-	075	•	-	-	075	•
1000	40 x 8 mm	2.5	100	•	100	•	-	-	-	-	-	-	-	-
1000	50 x 10 mm	4	-	-	-	-	100	•	100	•	-	-	-	-
1000	60 x 12 mm	5.7	-	-	-	-	-	-	-	-	100	•	100	•
1500	50 x 10 mm	5.8	150	●*	150	(O) ⁺	-	-	-	-	-	-	-	-
1500	60 x 12 mm	8.4	-	-	-	-	150	(O) ⁺	150	(O) ⁺	-	-	-	-
1500	70 x 15 mm	12.4	-	-	-	-	-	-	-	-	150	(°) ⁺	-	-
1500	70 x 14 mm	12.4	-	-	-	-	-	-	-	-	-	-	150	(O) ⁺
2000	60 x 12 mm	11.2	200	●*	200	(O) ⁺	-	-	-	-	-	-	-	-
2000	70 x 15 mm	12	-	-	-	-	200	(°) ⁺	200	(°) ⁺	-	-	-	-
2000	80 x 15 mm 13		-	-	-	-	-	-	-	-	200	(°) ⁺	-	-
						Price/unit, €								

Prod. Gr. 375

ATORN® Straight edges (DIN 874)



Application:

For inspecting the flatness and straightness of surfaces

Execution:

- $\hfill \blacksquare$ Hardened measuring edge, ground and finely lapped
- Hand warmth insulation
- No. 37550: Made from special steel, both inclines with anti-glare burnished finish

■ No. 37551: Made from INOX steel, both incline surfaces with anti-glare matt finish

Delivery:

In synthetic leather case

From 1000 mm on request

Technical data:

Material: Hardened steel





No. 37551

Length (mm)		75	100	125	150	200	300	400	500
27550	Ident. No.	007	010	012	015	020	030	040	050
37550	Price/unit, €	•	•	•	•	•	•	•	•
37551	ldent. No.	007	010	012	015	020	030	040	050
3/331	Price/unit, €	•	•	•	•	•	•	•	•

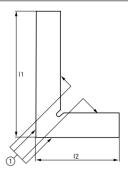
Prod. Gr. 3AF



90° steel square, right-angle tolerances Excerpt from DIN 875



Length I1	Right-angle tolerances t in µm with accuracy level								
(mm)	00	0	1	2					
50	3	_	-	-					
75	3	7	14	28					
100	3	7	15	30					
150	4	8	18	35					
200	4	9	20	40					
250	5	10	23	45					
300	5	11	25	50					
500	7	15	35	70					
750	10	20	43	85					
1000	12	25	60	120					





ATORN® flat squares and try squares (DIN 875)

accuracy 2



Application:

For testing angles and marking offs workpieces

■ Made from special steel, unhardened

■ Test and side surfaces finely ground

Technical data:

Accuracy class: II



No. 38062



No. 38063

Limb length	x limb length	2	75 x 50 mm	100 x 70 mm	150 x 100 mm	200 x 130 mm	250 x 165 mm	300 x 175 mm	500 x 250 mm	600 x 300 mm	750 x 375 mm	1000 x 500 mm
Cross-section width	on length x cro	oss-section	15 x 5 mm	20 x 5 mm	25 x 5 mm	30 x 6 mm	35 x 7 mm	35 x 7 mm	40 x 8 mm	40 x 8 mm	45 x 10 mm	50 x 10 mm
38062	Flat assume	Ident. No.	007	010	015	020	025	030	050	060	075	100
38002	Flat square	Price/unit, €	•	•	•	•	•	•	•	•	0	(°) ⁺
20042	Tru oquara	Ident. No.	007	010	015	020	025	030	050	060	075	100
38063 Try square	Price/unit, €	•	•	•	•	•	•	•	•	0	(O) ⁺	

Prod. Gr. 3AF



ATORN® flat squares and try squares (DIN 875)

Accuracy 1



Application:

For testing angles and marking offs workpieces

Execution:

- Test and side surfaces finely ground
- No. 38058-38059: Made from INOX steel, unhardened

■ No. 38060-38061: Made from special steel, unhardened

Technical data:

■ Accuracy class: I



No. 38058 007-38058 100, 38060 007-38060



No. 38059 007-38059 100, 38061 007-38061 100

Limb length x limb length 2			75 x 50 mm	100 x 70 mm	150 x 100 mm	200 x 130 mm	250 x 165 mm	300 x 200 mm	500 x 330	1000 x 660 mm
Cross-section	Cross-section length x cross-section width			20 x 5 mm	25 x 5 mm	30 x 6 mm	35 x 7 mm	40 x 8 mm	50 x 10 mm	70 x 15 mm
20050	Flat assume	Ident. No.	007	010	015	020	025	030	050	100
38058	Flat square	Price/unit, €	•	•	•	•	•	•	•	(O) ⁺
20050	T	Ident. No.	007	010	015	020	025	030	050	100
38059	Try square	Price/unit, €	•	•	•	•	•	•	•	(O) ⁺
38060 Flat square		Ident. No.	007	010	015	020	025	030	050	100
		Price/unit, €	•	•	•	•	•	•	•	(O) ⁺

Limb length x limb length 2		75 x 50 mm	100 x 70 mm	150 x 100 mm	200 x 130 mm	250 x 165 mm	300 x 200 mm	500 x 330 mm	1000 x 660 mm	
Cross-section	length x cross-s	ection width	15 x 5 mm	20 x 5 mm	25 x 5 mm	30 x 6 mm	35 x 7 mm	40 x 8 mm	50 x 10 mm	70 x 15 mm
20061		Ident. No.	007	010	015	020	025	030	050	100
38061 Try	Try square	Price / unit. €	•	•	•	•	•	•	•	(O) ⁺

Prod. Gr. 3AF





Application:

For testing angles and marking offs workpieces

Execution:

- Side faces finely ground
- Lapped test surfaces

- No. 38051-38052: Made from special steel, unhardened
- No. 38073-38074: Made from hardened INOX steel

Technical data:

Accuracy class: 0



No. 38051 010-38051 050, 38073 005-38073 020



No. 38052 010-38052 050, 38074 005-38074

Limb length x limb length 2		50 x 40 mm	75 x 50 mm	100 x 70 mm	100 x 70 mm	150 x 100 mm	200 x 130 mm	250 x 165 mm	300 x 200 mm	500 x 330 mm	
Cross-section	n length x cross	s-section width	12 x 5 mm	15 x 5 mm	20 x 5 mm	25 x 5 mm	25 x 5 mm	30 x 6 mm	35 x 7 mm	40 x 8 mm	50 x 10 mm
38073	Flat annuaus	Ident. No.	005	007		010	015	020			
380/3	Flat square	Price/unit, €	•	•	-	•	•	•	-	-	-
38051	Flat annuaus	Ident. No.			010		015	020	025	030	050
38051	Flat square	Price/unit, €	-	-	•	-	•	•	•	•	•
38074	Trucquero	Ident. No.	005	007		010	015	020			
38074	Try square	Price/unit, €	•	•	-	•	•	•	-	-	-
38052 Try square		Ident. No.			010		015	020	025	030	050
30032	Try square	Price/unit, €	-	-	•	_	•	•	•	•	•

Prod. Gr. 3AF





Application:

For testing angles and marking offs workpieces

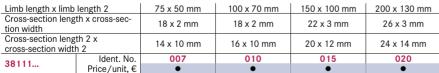
Execution:

■ Made from special steel, hardened

- Test surfaces and side surfaces finely ground and precise
- Lapped test surfaces

Technical data:

Accuracy class: 0



Prod. Gr. 3AF



« Knife-edge square, hardened (DIN 875)



Application:

For testing planar surfaces using the light gap method

Execution:

- Test and side surfaces finely ground
- Test edges lapped

- With 2 lapped, graduated knife edges
- Hardened
- No. 38125: Made from special steel
- No. 38126: Made of INOX steel

Technical data:

■ Accuracy class: 00





Limb length x limb length 2		50 x 40 mm	75 x 50 mm	100 x 70 mm	150 x 100 mm	200 x 130 mm	300 x 200 mm
Cross-section length width	x cross-section	13 x 4 mm	15 x 4.5 mm	19 x 6 mm	25 x 7 mm	32 x 7 mm	40 x 8 mm
38125	Ident. No.	005	007	010	015	020	030
36125	Price/unit, €	•	•	•	•	•	•
20124	Ident. No.	005	007	010	015	020	030
38126	Price/unit, €	•	•	•	•	•	•

Prod. Gr. 3AF



ATORN® Knife-edge square (DIN 875)

Thick stock and thin blade



Application:

For testing planar surfaces using the light gap

Execution:

■ Test and side surfaces finely ground

- Test edges lapped
- Made from special steel
- Hardened

Technical data:

■ Accuracy class: 00



Limb length x limb length 2		50 x 40 mm	75 x 50 mm	100 x 70 mm	150 x 100 mm	200 x 130 mm	300 x 200 mm
Cross-section length x cross-section width		16 x 2 mm	18 x 2 mm	18 x 2 mm	22 x 3 mm	26 x 3 mm	32 x 3 mm
Cross-section length tion width 2	2 x cross-sec-	14 x 10 mm	14 x 10 mm	16 x 10 mm	20 x 12 mm	24 x 14 mm	30 x 18 mm
38136	Ident. No.	005	007	010	015	020	030
30130	Price/unit, €	•	•	•	•	•	•

Prod. Gr. 3AF





Application:

For inspection during toolmaking and manufacturing

- Made from hardened INOX steel
- Test and side surfaces finely ground
- Graduated knife edge on inner side

■ Inspection edges hardened and lapped

Technical data:

- Cross-section length 2 x cross-section width 2: 5
- x 3.5 mm
- Accuracy class: 00

Limb length x limb length 2		25 x 20 mm	40 x 28 mm
Cross-section length x cross-sec	ction width	6 x 3.5 mm	8 x 3.5 mm
38154	Ident. No.	025	040
36134	Price/unit, €	•	•

Prod. Gr. 3AF

DRION® Knife-edge square, adjustable



Application:

For testing planar surfaces using the light gap method

- Continuously sliding straight edge
- Clamp spindle lock mechanism
- Hardened

38160...

Prod. Gr. 3BG

 Lapped test surfaces on basic body and lapped straight test edge

Advantage:

Very good accessibility in recesses etc.

Technical data:

- Length: 60 mm
- Cross-section length x cross-section width: 4 x 4

012

www.iconridge.com

■ Base body dimension: 40 x 9 x 23 mm





Measuring instrument set

Execution:

Straight edge 100 mm, knife-edge square 75 x 50 mm, 1 incision square each 40 x 28 mm and 25 x 20 mm, gauge block scriber 60 x 8 x 8 mm

Delivery: In a case

Ident. No. 006 Price/unit, €

38170... Prod. Gr. 3AF





ATORN® Mitre try square

Application:

For precise 45° mark-off and inspection for 90° corner joints

Technical data:

■ Angle: 135 Degree

■ Made from special steel

Execution:

■ Test and side surfaces finely ground

Limb length x limb leng	th 2	120 x 80 mm	200 x 130 mm	
Cross-section length x cross-section width		20 x 5 mm	20 x 5 mm	25 x 5 mm
20175	ldent. No.	120	150	200
38175	Price/unit, €	•	•	•

Prod. Gr. 3AF



Application:

For marking off and inspecting 45° angles

■ Test surfaces precisely ground and lapped, side surfaces ground

■ Made from special steel

Execution:

■ With stop

Limb length x limb leng	th 2	120 x 80 mm	150 x 100 mm	200 x 130 mm
Cross-section length x of width	ion length x cross-section 20 x 5 mm		20 x 5 mm	25 x 5 mm
20174	Ident. No.	120	150	200
38176	Price / unit. €.	•	•	•

Prod. Gr. 3AF



Universal centring square

Application: For centring and marking off centre points of round discs and shafts.

Execution:

- Function faces finely ground
- mm graduation on rail



Ident. No. 016

Limb length x limb	length 2	100 x 70 mm	150 x 130 mm	200 x 150 mm	250 x 160 mm	300 x 180 mm	400 x 240 mm	500 x 300 mm
38191	Ident. No.	011	016	021	026	031	041	051
30191	Price/unit, €	•	•	•	•	•	•	0

Prod. Gr. 3BG



Adjustable square

Application:

For setting angles, e.g. using a reference part

Execution:

- Galvanised
- 3-part with locking screw
- Top edges precisely machined, flat sides smoothed

Length (mm)		150	200	300	500
Cross-section length x cross-section width		16 x 4 mm	16 x 4 mm	18 x 4 mm	25 x 5 mm
38201	Ident. No. Price / unit. €	015	020	030	050

Prod. Gr. 3BG







Application:

Locking screw

For measuring 10-170° angles

- Made of chromium-plated special steel
- Anti-glare, brushed chromium-plated scale
- No. 38231: Double blade for ease of use Execution:



No. 38230

Limb length (mm)		150	300	400	600
Degree arc Ø (mm)		100	150	200	300
38230	Ident. No.	010	015	020	030
36230	Price/unit, €	•	•	•	•
38231	Ident. No.	010	015	020	030
30231	Price/unit, €	•	•	0	0

www.iconridge.com



Application:

For measuring 0-180° angles

Execution:

- Locking screw
- Made of chromium-plated special steel
- Anti-glare, brushed chromium-plated scale



Limb length (mm)		120	150	200	300	500
Degree arc Ø (mm)		80	120	150	200	300
38217	Ident. No.	800	012	015	020	030
	Price/unit, €	•	•	•	•	•

Prod. Gr. 3BG

DRION® Electronic protractor



Application:

For measuring 0-180° angles

Execution:

■ Mobile measuring arm fixed using knurled thumb

- Adjust or set to zero on any flat surface
- 0.05 ° digit increment
- Made of stainless steel
- Error limit ±0.3°
- Overhead display

150	200	300
120	150	200
010	015	020



Limb length (mm) Degree arc Ø (mm)

38235...

Universal goniometer

With magnifying glass

Ident No

Price/unit, €



Application:

For measuring 0-360° angles

Execution:

- Precision adjustment
- Parallax-free reading
- Made from hardened INOX steel
- Vernier scale 1/12° = 5,
- Scale and vernier scale with brushed chromium-plated finish
- Error limit 5'

With panoramic magnifying glass, in wooden case

Rail length (mm)		150	200	300	500
38240	Ident. No.	015	020	030	050
	Price/unit, €	•	•	•	•

Prod. Gr. 382



Goniometer

Dial reading



Application:

For measuring 0-360° angles

Execution:

- Body and rule made of INOX steel, hardened and ground
- The measuring rule can be moved to any position
- A second clamping system holds the mobile part in the measuring position
- Spindle compensation in the measuring mechanism prevents any tooth flank play

020

www.iconridge.com

- Dial diameter 35 mm
- Error limit 5

Delivery:

In a case

Ident, No. Price/unit, €









ATORN® Electronic universal goniometer



Application:

For measuring 0-360° angles

Execution:

- Adjust or set to zero on any flat surface
- LCD display with very large digits (size 8.5 mm)
- Measuring surfaces, hardened and fine ground
- Switchable measuring range: 1 x 360° 2 x 180°
- Zero setting (RESET) possible at any position
- Digit increment 0.01° or 1′
- Error limit 2'

Delivery:

Includes battery and sturdy wooden case

200

Technical data:

■ Data transmission type: RS232 opto coupled



38265	Ident. No.	150	200
30203	Price/unit, €	•	•

150

Prod. Gr. 382

Universal goniometer

Magnetic base

Rail length (mm)

Application:

For setting angles directly on the workpiece being

machined

Execution:	In a wooden case
Swivelling dial gauge	
	1







Example application

Spirit levels and spirit levels with magnetic base

■ 2 x 180° setting

■ Error limit 30'

Delivery:

Made of light metal

Prod. Gr. 378

For horizontal and vertical alignment of objects

Execution:

- Laser-scaled horizontal round vials
- Read off 2% inclines
- Magnifying effect for improved reading
- 270° view of bubble from all positions without any interfering edges
- Made from high-strength non-breakable polycarbonate
- Strong aluminium rectangular profile

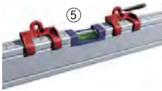
- Scratch-proof thanks to special anodising treatment
- Rubber end caps for impact protection
- No. 38291: Magnetic base

300

Advantage:

- Silicone pads on rear side surface for non-slip positioning on walls
- Additional divisions for exact 0-position of bubble in the horizontal vial for precise reading (zero-point deviation in normal position: 0.5 mm/m)
- No. 38290 080-38290 120:
- Scale printed on upper measuring surface
- 2 sliding measuring and marking-off tabs









38290080-120

Length (mr	m)		200	300	400	500	600	800	1000	1200	1500	1800	2000
	Meas- uring accuracy (per length) (mm/m)												
38290	0.5	Ident. No. Price/unit, €	020	030	040	050	060	080	100	120	150 •	180	200
38291	0.5	Ident. No.	-	-	040	-	060	080	100	-	-	-	-

www.iconridge.com

Prod. Gr. 3AG

Pocket spirit level

With PICO tape measure

Application:

For accurate vertical and horizontal marking

Execution:

- Magnet on base and side
- Stainless steel tape measure

- Waterproof
- Tape measure can be locked in an extended position

Technical data:

■ Length: 1 m





Prod. Gr. 371

37030...

spirit levels

with unbreakable, barrel-shaped Plexiglas vials

Application:

For horizontal and vertical alignment of objects

Execution:

- No. 38300:
- Hardwood
- Oiled and kiln-dried
- No. 38300 030-38307 100, 38312 040-38320 080: Unbreakable, barrel-shaped plexiglas bubble vials
- No. 38304:
- Made from reinforced square profile
- Non-reflective round bubble vials with magnifying effect
- Read off 2% inclines
- No. 38307:
- Made of powder-coated, aluminium hollow profile

- 1 milled measuring surface with magnet system
- No. 38310:
- With 3 unbreakable, barrel-shaped plexiglas bubble vials
- With impact-resistant, plastic protective end caps
- 2 milled measuring surfaces for normal and reverse measurement
- Rigid 4-chamber aluminium profile
- No. 38312:
 - Made of strong, rectangular aluminium profile
 - Scratch-proof thanks to special anodising treatment
- 1 additional rotating level for reading the angle in degrees and %
- No. 38320:
 - Aluminium die-cast body
- With 2 milled measuring faces for measuring in normal position
- Extremely robust, impact-resistant, moisture resistant
- No. 38320 080: With 3 levels



Prod. Gr. 384

BMI

spirit levels with magnet

Application:

For horizontal and vertical alignment of objects

Execution:

■ Ident. No. 010:

- Made of highly impact-resistant plastic with magnetic tape on the underside
- \blacksquare 3 unbreakable plexiglas bubble vials for 0°, 45° and 90°
- Ident. No. 020:
- Round horizontal bubble vial with magnifying effect
- Edgeless horizontal spirit level for undistorted view of bubble even during reverse measuring
- Reverse measuring possible (0.5 mm/m)
- Solid body and impact-resistant rubber end flap maintain high measuring precision
- With internal magnet



Ident. No. 010



Ident. No. 020

Length (mm)			200
	Measuring accuracy (per length) (mm/m)		
38325		Ident. No.	010
36325		Price/unit, €	•
38325	0.5	Ident. No.	020
30325	0.5	Price/unit, €	•



BMI

Electronic inclinometer

With integrated laser point

Application

For measuring in the horizontal (as with a spirit level) or in any other direction (as with an inclinometer)

Execution:

- Length of test face: 400 mm
- Zero point deviation of horizontal bubble vial in normal position: 0.25 mm/m
- Parallelism deviation of laser beam to test face: 0.25 mm/m
- Laser class 2
- Laser wavelength 635 nm
- Laser power < 1 mW

- Range approx. 50 m
- Digit increments 0.1° or 0.1%
- Error limit 0° and 90° = 0.05° intermediate dimensions = ±0.2°
- 8 h continuous light

Delivery:

With batteries (1x E-Block 9 V type 6LR61) in sturdy plastic tubes

Ident. No.

Price/unit, €

Technical data:

Length x width x height: 443 x 40 x 70 mm





38446...

Prod. Gr. 383



Light metal spirit level

Application:

For adjusting horizontal surfaces and shafts

Execution:

- With prismatic base
- Silver-anodised surface
- Milled longitudinal bubble vial

Delivery:

In plastic protective sleeve

Technical data:

- Width: 22 mm
- Other standard: Company standard



Length (mm)			150	200	250	300
	Scale value, longitudinal spirit level (mm/m)					
38330	0.6	Ident. No. Price/unit, €	015 •	020 •	025 •	030
	1	1 1100/ 41111, 0	_	_	-	

Prod. Gr. 3FA



Crankpin spirit levels (DIN 877)

Application:

For aligning very short, horizontal surfaces, crank shafts and pins in engines or machines

Execution

- Precision design
- With longitudinal and transverse bubble vials
- With longitudinal and transverse v-shaped recesses
- Finely ground measuring surfaces

 Robust design in high-quality special cast iron, structural paint finish

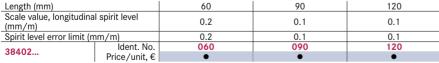
Delivery:

In case

Technical data:

- Scale value, lateral spirit level: 0.8 mm/m
- Width: 42 mm





Prod. Gr. 3FA



Precision spirit levels (DIN 877)

adjustable

Application

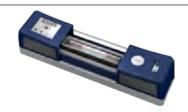
For the exact levelling of surfaces, shafts etc.. The adjustment feature allows the precision spirit level to be readjusted manually at any time.

Execution:

- Prismatic base 150°
- Longitudinal and transverse bubble vials
- Full insulation against heat from hands and breath
- Bubble can be viewed from the side
- Finely ground test surfaces
- Adjustable

Delivery:

In a plastic case





Measuring aids \ Spirit levels and levelling devices

Scale value, longitudinal spirit level (mm/m)		3	0.1		0.04		0.02		0.01	
Length (mm)			38424 38424.			38424		38424		
		0.	Ident. N	0.	Ident. N	0.	Ident. N	0.	Ident. N	0.
160	016	•	116	•	216	•	316	•	-	-
200	020	•	120	•	220	•	320	•	420	0
250	025	0	125	•	225	•	325	•	425	0
300	030	•	130	•	230	0	330	•	430	0
500	050	0	150	0	250	•	350	•	450	0
					Price/	unit. €	•			

Prod. Gr. 3FA



Precision frame spirit levels (DIN 877)

Application:

For aligning horizontal and vertical faces and shafts

- 3 prismatic measuring faces 150°, 1 vertical, flat
- With longitudinal and transverse bubble vials
- Full insulation against hand and breath warmth
- Vial can also be viewed from the side
- Finely ground test surfaces

Delivery:

In case

Technical data:

■ Width: 34 mm



Scale value, longitudinal spirit level (mm/m)	0	.3	0.1		0.04		0.02	
Length (mm)	38440.		38441		38442		38443	
	Ident. N	o.	Ident. N	lo.	Ident. N	0.	Ident. N	0.
100	010	•	010	•	010	•	-	-
150	015	•	015	•	015	•	015	•
200	020	•	020	•	020	•	020	•
300	030	0	030	0	030	0	030	•
	Price / unit. €							

Prod. Gr. 3FA

ATORN® Electronic inclinometer



Application:

For easy and rapid measurement of inclinations

Execution:

- Display in degrees or percentages
- Arrow in display shows direction of inclination
- Simple adjustment in normal position (reset)
- Switchable acoustic signal for the 0° or 90° position
- Hold function

- Digit increments 0.1° or 0.1%
- Error limit 0° and 90° = 0.05° intermediate dimensions = $\pm 0.2^{\circ}$

Delivery:

Battery (1x E-Block 9 V type 6LR61) in sturdy plastic tube

Technical data:

■ Length x width x height: 256 x 50 x 60 mm



38445... Prod. Gr. 383

ORION® Electronic inclinometer



Application:

For easy and rapid measurement of inclinations

Execution:

- Display in degrees
- Arrow in display shows direction of inclination
- Simple adjustment in normal position (reset)
- Hold function
- 0.05 ° digit increment

38600...

Prod. Gr. 383

- Error limit 0.5°
- Large LCD display

Advantage:

- Adhesive magnets on 3 sides
- Rotating display for overhead measurements

Technical data:

■ Length x width x height: 57 x 30 x 57 mm







ORION® Electronic inclinometer



Application:

For easy and rapid measurement of inclinations

Execution:

- Display in degrees or percentages
- Arrow in display shows direction of inclination
- Simple adjustment in normal position (reset)
- Hold function
- Made from hard-anodised light metal
- Base with narrow V-shaped recess for attachment
- 1 base with adhesive magnets
- Digit increments 0.1° or 0.1%

■ Error limit 0° and 90° = 0.1° intermediate dimensions = 0.2°

Advantage:

- Short and compact shape
- Rotating display for overhead measurements

Delivery:

Price/unit, €

With battery (1 x 3 V lithium type CR2032) and holster

Technical data:

Length x width x height: 151 x 35 x 60 mm



38600...

Prod. Gr. 383



Electronic inclinometer

Clino Bevel 1 USB

Application:

For fast and easy measurement of inclines using absolute and comparative measuring procedures

- 4 precisely machined measuring bases
- Splash-proof housing (IP65)
- Data output
- Selectable units of measure: Degrees (2 dec.), degrees/min., mm/m (2 dec.), inch/10 or 12 inch

(4 dec.), mm or inch/rel. basis (optional), milliradians and others

010

- Battery operation
- Error limit: 2' + 1 digit increment

Delivery:

With battery (1x1.5 V type AA), USB data cable, Clinosoft software, in a case.

Technical data:

■ Length x width x height: 100 x 35 x 75 mm





38448...

Prod. Gr. 366



011

Electronic levels NIVELTRONIC

Application:

For adjustment of horizontal machine beds and for checking the planarity of machine tables and guide surfaces

Execution:

- Cast steel housing
- Battery operation (4x 1.5 V micro type AA)
- Displays in mm/m and angular seconds
- Inductive measuring system
- No. 38450:
- With prismatic base
- With 2 level and prismatic measuring surfaces

- No. 38455:
 - Flat base and recesses for mounting hard stone bases no. 38460

Ident No.

Price/unit, €

■ With 1 level measuring surface

Delivery:

In wooden box

Technical data:

- Measuring range 1, level (+/-): 0.75 mm/m
- Measuring range 2, level (+/-): 0.15 mm/m
 Spirit level error limit: 0.005 mm/m
- Repetition accuracy, spirit level: 0.001 mm/m



No. 38450



No. 38455 With 38460

Length (mm)		200	150
Height (mm)		200	210
Scale value (mm)		0.01	0.05
38450	Ident. No.	010	
36450	Price/unit, €	•	-
38455	Ident. No.		010
30455	Price/unit, €	-	•

www.iconridge.com





ldent. No. Price/unit, €

020

Length (mm)

Technical data:

Application: For use as a base for Niveltronic electronic level

050 O

38460... Prod. Gr. 366



With 38460

