

Protractors / Clinometers / Spirit levels



Accuracy of clinometers/spirit levels according DIN 877

Graduation µm/m	"	Flatness (µm) (L=length in mm)
≤50	≤10	4 + L/250
>50 - 200	>10 - 40	8 + L/125
>200	>40	16 + L/ 60

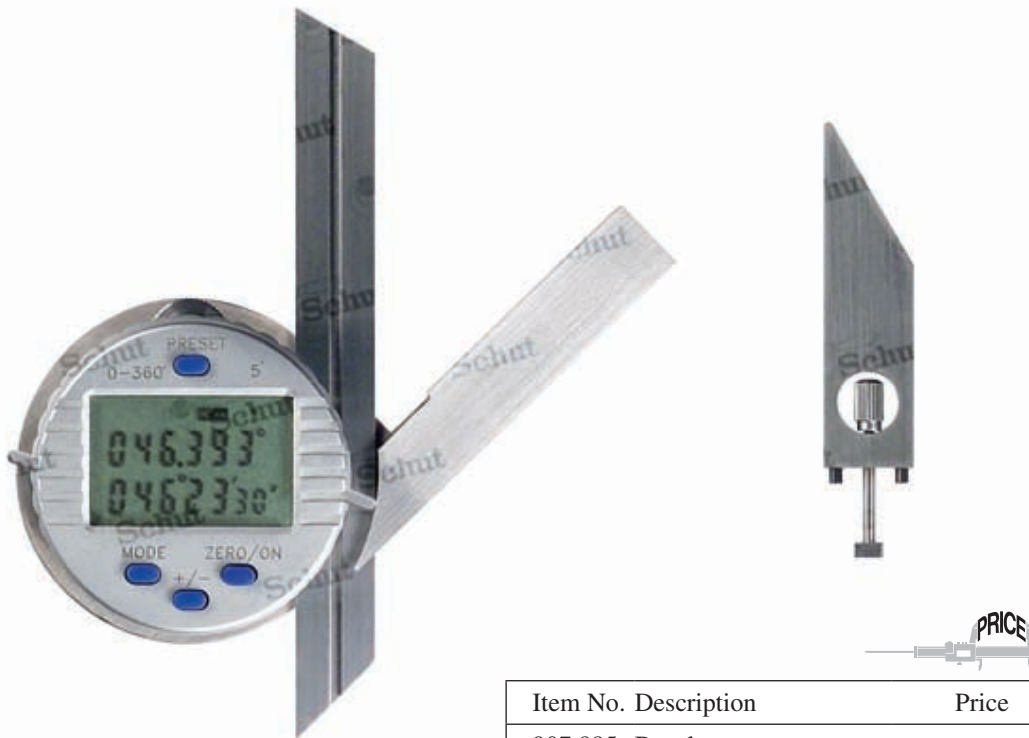
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Universal digital bevel protractor

This digital bevel protractor displays both decimal degrees and degrees-minutes-seconds at the same time.

- Measuring range: ± 360 mm.
- Resolution: 0.008° and $30''$.
- Accuracy: $\pm 0.08^\circ$ or $\pm 5'$.
- Mode: $0-90^\circ$, $0-180^\circ$ or $0-360^\circ$.
- On/off switch.
- Reset/preset.
- Reversible measuring direction.
- Fine adjustment.
- Delivery in a case with three blades (150, 200 and 300 mm), a square and an acute angle attachment.
- Power supply: 1 battery type CR2032.



Item No.	Description	Price
907.885	Bevel protractor	
Option:		
495.157	Spare battery	

Single blades

Item No.	Blade length/mm	Price
909.380	150	
909.381	200	
909.382	300	
909.383	500	
909.384	600	
909.385	800	



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Universal digital bevel protractor

This stainless steel, digital bevel protractor is available with blades from 150 to 1000 mm. The blades and all the measuring faces are hardened.

- Measuring range: $\pm 360^\circ$.
- Resolution: 1', or decimal 0.01°.
- Accuracy: $\pm 2'$.
- Repeatability: 1'.
- Indication switchable from degrees and minutes to decimal degrees.
- + and - direction reversible.
- Per 90° adjustable.
- Data output, Mitutoyo Digimatic compatible.
- On/off switch.
- Reset/preset/hold functions.
- Control with 5 keys for several functions.
- Fine adjustment.
- Delivery in a case without blade.
- Power supply: 1 battery type CR2032.

Item No.	Description	Price
855.820	Bevel protractor	
Options:		
495.157	Spare battery	
905.409	Data cable 2 m	

Single blades

Item No.	Blade length/mm	Price
909.380	150	
909.381	200	
909.382	300	
909.383	500	
909.384	600	
909.385	800	
855.827	1000	



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Dial bevel protractor

- Measuring range: 4 x 90°.
- Graduation: 5'.
- Fine adjustment.
- Hardened stainless steel construction.
- Delivery in a case with 300 mm blade and an acute angle attachment.



Single blades

Item No.	Blade length/mm	Price
909.380	150	
909.381	200	
909.382	300	
909.383	500	
909.384	600	
909.385	800	

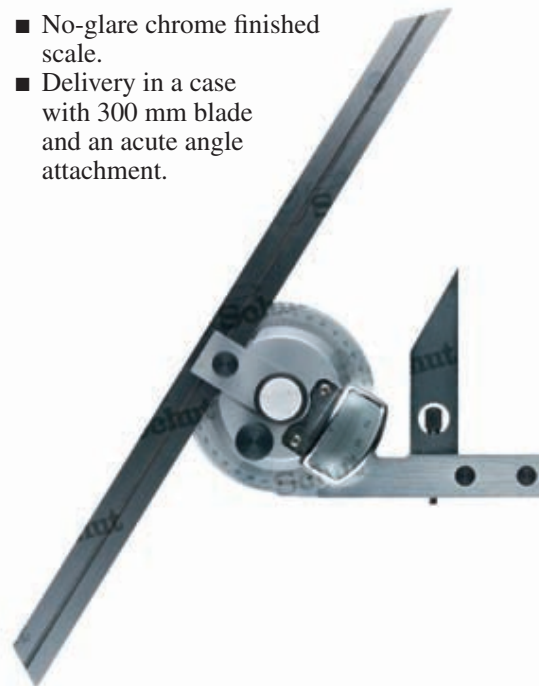
Item No.	Description	Price
906.504	Bevel protractor	

Bevel protractor with magnifier

- Measuring range: 4 x 90°.
- Vernier: 5', parallax-free.
- Fine adjustment.
- Hardened stainless steel construction.



- No-glare chrome finished scale.
- Delivery in a case with 300 mm blade and an acute angle attachment.



Item No.	Description	Price
906.502	Bevel protractor with magnifier	

Option:
906.505 Spare magnifier

Single blades

Item No.	Blade length/mm	Price
909.380	150	
909.381	200	
909.382	300	
909.383	500	
909.384	600	
909.385	800	

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Bevel protractor with magnifier

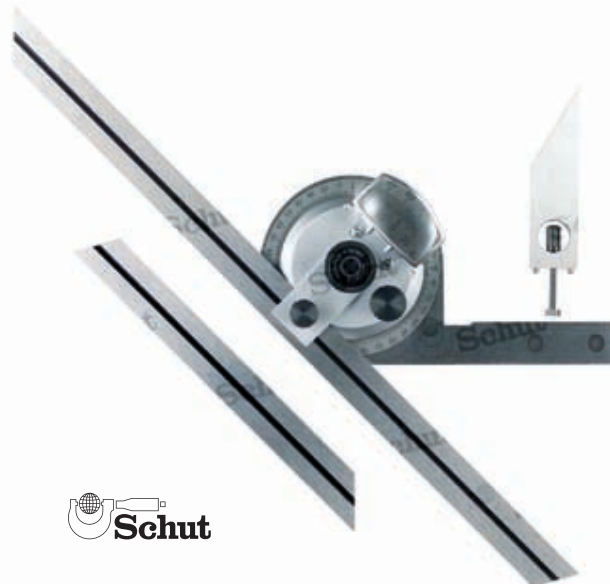
- Measuring range: 4 x 90°.
- Vernier: 5', parallax-free.
- Fine adjustment.
- Hardened stainless steel construction.
- No-glare chrome finished scale.

- Delivery in a case with two blades (150 and 300 mm) and an acute angle attachment.

Item No.	Description	Price
855.801	Bevel protractor with magnifier	
Option:		
859.179	Spare magnifier	

Single blades

Item No.	Blade length/mm	Price
909.380	150	
909.381	200	
909.382	300	
909.383	500	
909.384	600	
909.385	800	

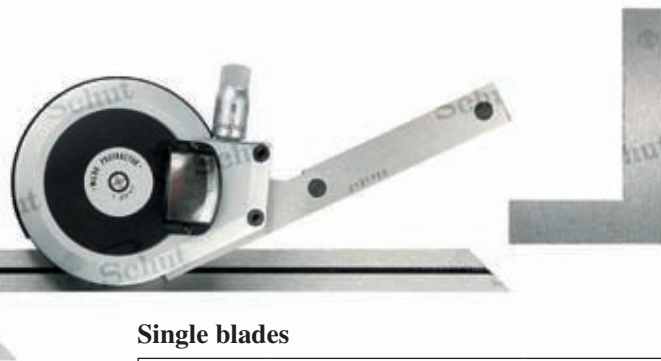


 **Schut**

Universal bevel protractor

Universal bevel protractor with micrometer screw adjustment. One rotation of the screw corresponds to an angular change of 1°. Retraction of the micrometer screw enables fast adjustment of the blade and the scale.

- Measuring range: 4 x 90°.
- Graduation: 1'.
- Stainless steel construction, main parts are hardened.
- Delivery in a case with two blades (150 and 300 mm) and a reference square for checking the bevel protractor.



Single blades

Item No.	Description	Price
855.811	Universal protractor with magnifier	
Option:		
859.019	Spare magnifier	

Item No.	Blade length/mm	Price
909.380	150	
909.381	200	
909.382	300	
909.383	500	
909.384	600	
909.385	800	

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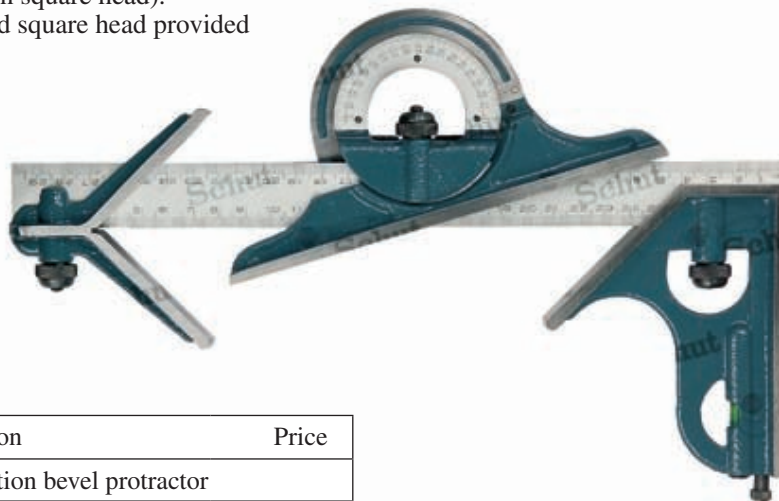
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Combination bevel protractor

Can be used as bevel protractor, ruler, depth gauge, try square, center square and spirit level.

- Measuring range: 0-180° (90-0-90°).
- Graduation: 1°.
- Double graduation.
- Rotatable.
- Scriber (included in square head).
- Protractor head and square head provided with a spirit level.
- Ruler length: 300 mm.
- Delivery with protractor head, square head, center head, and ruler with mm/mm graduation.



Item No.	Description	Price
906.503	Combination bevel protractor	

Combination bevel protractor

Combination bevel protractor with blade and flat square.

- Measuring range exterior angle: 0-180°.
- Measuring range interior angle: 40-180°.
- Vernier: 2'.
- Delivery in a case.



Item No.	Description	Price
858.302	Combination bevel protractor	

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Bevel protractors

- Measuring range: 0-180° (with swivelling blade) or 10-170° (with sliding blade).
- Graduation: 1°.
- Locking screw.
- Hardened steel, no-glare chrome finished.
- Graduation placed by laser.



PRICE

Item No.	Scale ø/mm	Blade length/mm	Price
With swivelling blade:			
907.864	80	120	
907.865	120	150	
907.866	150	200	
907.867	200	300	
907.868	300	500	
With sliding blade:			
907.869	100	150	
907.870	150	300	
907.871	200	400	
907.872	250	500	
907.873	300	600	

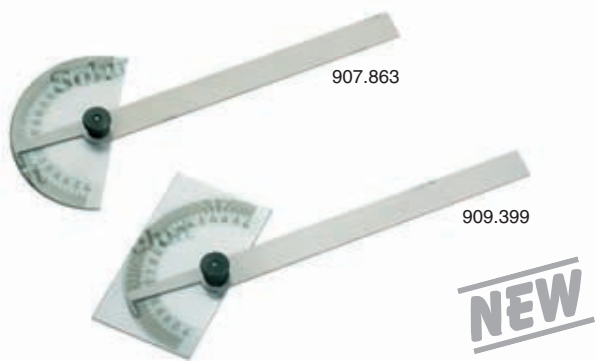
Bevel protractors

Simple and easy to use protractors with a semicircular or rectangular head and swivelling blade.

- Measuring range: 0-180°.
- Graduation: 1°.
- Scale diameter: 85 mm.
- Locking screw.
- Blade length: 150 mm.
- Hardened steel, no-glare chrome finished.

PRICE

Item No.	Shape	Price
907.863	semicircular	
909.399	rectangular	



NEW

Bevel protractor

- Measuring range: 0-180°.
- Graduation: 1°.
- Scale diameter: 90 mm.
- Chrome finished stainless steel.



Item No.	Description	Price
775.613	Bevel protractor	



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Universal digital bevel protractor

Digital bevel protractor for measuring interior and exterior angles by using the supplied removable blade.

- Measuring range: 0- 180°.
- Resolution: 0.1°.
- Accuracy: $\pm 0.2^\circ$.
- ABS/INC switchable.
- On/off switch.
- Automatic switch-off.
- Hold function.
- Attach the removable blade (length 250 mm) to the moving blade for interior and exterior angles measurements.
- Protection: IP54.
- Delivery in a case incl. removable blade.
- Power supply: 1 battery type CR2032.



Item No.	Description	Price
909.500	Bevel protractor	
Option:		
495.157	Spare battery	



Universal digital bevel protractor with spirit level

Digital bevel protractor for measuring both inside and outside angles. The measuring value is displayed upright at any time. Equipped with four holes and a locking knob for measuring a specific angle.

- Measuring range: 360°.
- Resolution: 0.05°.
- Accuracy: $\pm 0.2^\circ$.
- ABS/INC switchable.
- With digital-analog display of the measured value.
- Reversal of display value.
- On/off switch.
- Hold function.
- Reversible measuring direction.
- Aluminum casing.
- Rotatable blade of metal.
- Dimensions: 254 x 50 x 36 mm.
- Power supply: 1 battery type CR2032.



Item No.	Description	Price
909.503	Bevel protractor	
Option:		
495.157	Spare battery	



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Universal digital bevel protractors

Digital bevel protractors for measuring both inside and outside angles. Equipped with a locking knob for measuring a specific angle.

- Measuring range: $\pm 360^\circ$.
- Resolution: 0.1° .
- Accuracy: $\pm 0.3^\circ$.
- On/off switch.
- Automatic switch-off.
- Zero setting at any position.
- Graduation rulers: 1 mm and 1/32 inch.
- Cross-section rulers: 35 x 2.5 mm.
- With fixing holes.
- Locking screw.
- Power supply: 1 battery type CR2032.

NEW



909.505



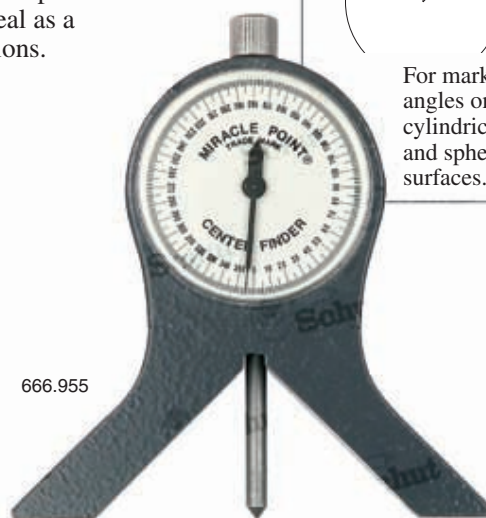
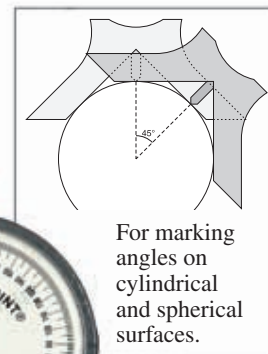
Item No.	Ruler length/mm	Price
909.505	200	
909.506	300	
909.507	500	
Option:		
495.157	Spare battery	

Magnetic clinometers with center point finder

Accurate clinometers with an extremely sensitive, balanced needle. The magnetic base with 90° V-groove is precision milled. The center point finder can be used as a center punch.

Very suitable for angular measurements, surface alignment, and the determination of center points and highest/lowest points of cylindrical and spherical surfaces. Therefore ideal as a universal aid to the installation of larger constructions.

- Measuring range: 360° .
- Graduation: 1° .
- Scale numbering: 0-360 clockwise (CW) or counterclockwise (CCW), or 0-90-0.
- Aperture V-groove (horizontal): 82 mm (for shafts up to $\varnothing 116$ mm).
- Dimensions $h \times w \times d$: 130 x 125 x 25 mm.



666.955

Item No.	Scale numbering	Price
666.955	0-360 CCW	
666.954	0-360 CW	
666.953	0-90-0	

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Digital clinometers

- Measuring range: $\pm 180^\circ$
(with external sensor: $\pm 360^\circ$).
- Resolution: 0.1° .
- Accuracy 0- 10° : $\pm 0.1^\circ$,
10- 170° : $\pm 0.2^\circ$,
170- 180° : $\pm 0.1^\circ$.
- Repeatability: 0.1° .
- ABS/INC switchable (except 906.476).
- Automatic switch-off.
- Hold function (only 906.479).
- With magnetic base (906.476/479)
or magnetic upper part (909.501/502).
- Dimensions: 51 x 51 x 33 mm.
- Power supply: 1 battery type CR2032.



Models with external sensor

- Accuracy 0- 10° : $\pm 0.1^\circ$,
10- 350° : $\pm 0.2^\circ$,
350- 360° : $\pm 0.1^\circ$.
- Sensor with mounting holes.
- Cable length: 1 m.
- Max. rotation speed: 600 rpm.

906.476



NEW



909.501



906.479



909.502



Item No.	Description	Price
906.476	Standard model	
906.479	With vial	
909.501	External sensor	
909.502	External sensor with axis $\varnothing 6$ mm	
Option:		
495.157	Spare battery	

Digital clinometers

Instruments for easy measurement of angles, flatness and squareness. All four sides are measuring faces. The measuring value is displayed upright at any time.

- Measuring range: 4 x 90° .
- Resolution: 0.1° .
- Accuracy 0- 10° : $\pm 0.1^\circ$,
10- 80° : $\pm 0.2^\circ$,
80- 90° : $\pm 0.1^\circ$.
- Repeatability: 0.1° .
- ABS/INC switchable.
- Large, easy-to-read LCD display.
- Hold function.
- Measuring face bottom-side: 2 tapped holes
M4, center distance 130 mm (only 908.926).
- Measuring faces bottom- and upper-side with
V-groove (only 909.504).
- With magnetic base (only 909.504).
- Width measuring faces: 6 mm.
- Dimensions *l x w x h*:
908.926: 150 x 33 x 52 mm,
909.504: 150 x 33 x 60 mm.
- Delivery in a case.
- Power supply: 1 battery type CR2032.



908.926



909.504

NEW



Item No.	Description	Price
908.926	With tapped holes	
909.504	With V-grooves and magnetic base	
Option:		
495.157	Spare battery	

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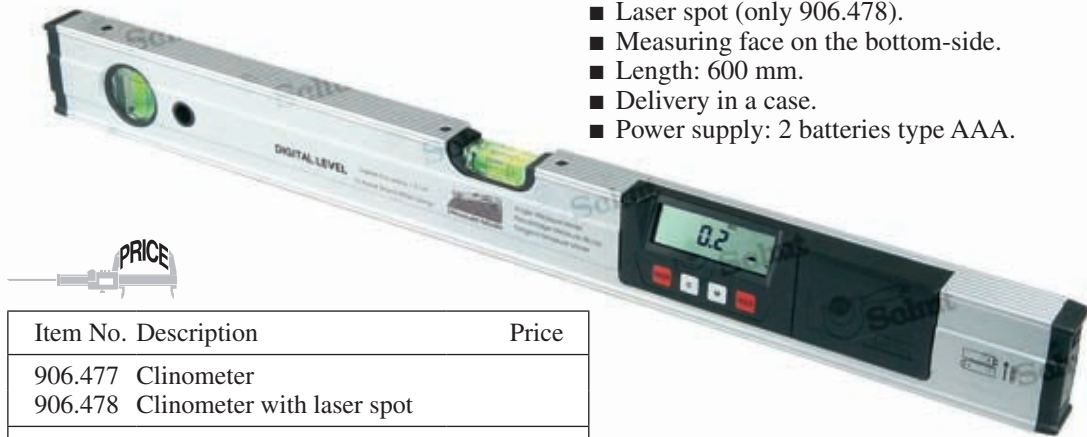
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Digital clinometers

Instruments for easy measurement of inclination. Equipped with a horizontal and vertical vial. The measuring value is displayed upright at any time.

- Measuring range: 4 x 90°.
- Resolution: 0.1°.
- Accuracy 0 - 10°: ±0.1°,
10 - 80°: ±0.2°,
80 - 90°: ±0.1°.
- °/% conversion.
- Large, easy-to-read LCD display.
- On/off switch.
- Hold function.
- Sound signal at: 0°, 45°, 90°.
- Laser spot (only 906.478).
- Measuring face on the bottom-side.
- Length: 600 mm.
- Delivery in a case.
- Power supply: 2 batteries type AAA.



906.477

Item No.	Description	Price
906.477	Clinometer	
906.478	Clinometer with laser spot	
Option:		
497.914	Spare battery (2 needed)	

Laser alignment tool

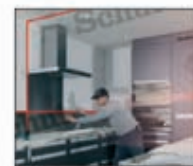
With this alignment tool you can exactly, quickly and easily project vertical, horizontal and crossed laserlines. Within a range of ±4° minor inclination errors are automatically compensated by means of the integrated spirit level, to level the projected horizontal line.

- Range: up to 5 m (dependent on the lighting conditions).
- Self-levelling range: 4°.
- Horizontal and vertical accuracy: ±2 mm/m.
- Laser: 650 nm, class 2 conform to IEC 60825-1.
- Lock function for projecting at an angle and transport protection.
- Mounted on rotatable base.
- On/off switch.
- Diameter: ø 120 mm.
- Height: 170 mm.
- Weight: 420 g.
- Delivery in a case incl tripod.
- Power supply: 2 batteries type AA.



NEW

Schut



Item No.	Description	Price
909.499	Alignment tool	
Option:		
495.111	Spare battery (2 needed)	

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Clinometers

- Measuring range: 4 x 90°.
- Graduation: 1°.
- Dimensions: 100 x 15 x 100 mm.

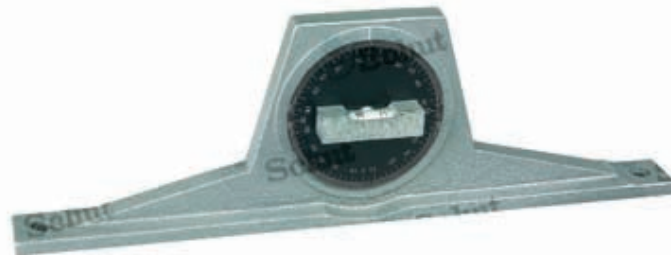
Item No.	Description	Price
857.302	Clinometer with removable base 100 mm	
857.304	Base 200 mm	
857.305	Base 300 mm	
857.306	Base 500 mm	
857.307	Base 1000 mm	
857.303	Clinometer with magnetic base 100 mm	



857.302

Clinometer

- Measuring range: 4 x 90°.
- Graduation: 1°.
- Graduation vial: 2-5 mm/m.
- Flat base: 300 x 25 mm.
- With mounting holes.



Item No.	Description	Price
853.669	Clinometer	



Vernier clinometers

Clinometers with two ground bases with V-groove, or two flat magnetic bases. Vial holder with vernier and fine adjustment.

- Measuring range: 0-90°.
- Vernier: 10'.
- Graduation vial: 0.3 mm/m \cong 1'.
- Dimensions: 150 x 39 x 150 mm.

Item No.	Description	Price
857.300	Bases with V-groove	
857.301	Flat magnetic bases	



857.300

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Inspection spirit levels

- Graduation main vial: 0.01 -0.3 mm/m.
- With cross test vial.
- Base with V-groove.
- Base width: 42 mm
(spirit levels with length 500 mm: 44 mm).
- DIN 877.
- Delivery in a luxurious case.

Item No.	Length mm	Graduation mm/m	Price
853.601	160	0.3	
853.606	160	0.1	
853.611	160	0.04	
853.616	160	0.02	
853.602	200	0.3	
853.607	200	0.1	
853.612	200	0.04	
853.617	200	0.02	
853.621	200	0.01	
853.603	250	0.3	
853.608	250	0.1	
853.613	250	0.04	
853.618	250	0.02	
853.622	250	0.01	
853.604	300	0.3	
853.609	300	0.1	
853.614	300	0.04	
853.619	300	0.02	
853.623	300	0.01	
853.605	500	0.3	
853.610	500	0.1	
853.615	500	0.04	
853.620	500	0.02	
853.624	500	0.01	

Inspection spirit levels

- Graduation main vial: 0.02 -0.5 mm/m.
- Adjustable main vial.
- With cross test vial.
- Base with V-groove, interrupted at the center over 1/3 of the length.
- Base width: 40 mm.
- DIN 877.
- Delivery in a luxurious case.



Item No.	Length mm	Graduation mm/m	Price
853.343	150	0.5	
853.341	150	0.1	
853.315	150	0.05	
853.348	150	0.02	
853.345	200	0.5	
853.344	200	0.1	
853.323	200	0.05	
853.322	200	0.02	
853.347	300	0.5	
853.346	300	0.1	
853.324	300	0.05	
853.325	300	0.02	



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Inspection spirit levels

- Graduation main vial: 0.05 or 0.02 mm/m.
- Adjustable main vial.
- With cross test vial.
- Base with V-groove.
- Base width: 46 mm.
- Robust cast iron construction.
- With insulating grip.
- DIN 877.



908.685



Item No.	Length mm	Graduation mm/m	Price
908.688	150	0.05	
908.684	150	0.02	
908.689	200	0.05	
908.685	200	0.02	
908.690	250	0.05	
908.686	250	0.02	
908.691	300	0.05	
908.687	300	0.02	



Frame spirit levels

- Graduation main vial: 0.05 or 0.02 mm/m.
- Adjustable main vial.
- With cross test vial.
- Two faces with V-groove, two flat faces.
- Robust cast iron construction.
- With insulating grip.
- DIN 877.



908.693



Item No.	Dimensions mm	Graduation mm/m	Price
908.696	150 x 150 x 40	0.05	
908.692	150 x 150 x 40	0.02	
908.697	200 x 200 x 40	0.05	
908.693	200 x 200 x 40	0.02	
908.698	250 x 250 x 40	0.05	
908.694	250 x 250 x 40	0.02	
908.699	300 x 300 x 40	0.05	
908.695	300 x 300 x 40	0.02	

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Frame spirit levels

- Graduation main vial: 0.01 -0.3 mm/m.
- With cross test vial.
- Three faces with V-groove, one flat face.
- DIN 877.
- Delivery in a luxurious case.



853.638

Item No.	Dimensions mm	Graduation mm/m	Price
853.625	100 x 100 x 34	0.3	
853.629	100 x 100 x 34	0.1	
853.633	100 x 100 x 34	0.04	
853.626	150 x 150 x 42	0.3	
853.630	150 x 150 x 42	0.1	
853.634	150 x 150 x 42	0.04	
853.637	150 x 150 x 42	0.02	
853.627	200 x 200 x 42	0.3	
853.631	200 x 200 x 42	0.1	
853.635	200 x 200 x 42	0.04	
853.638	200 x 200 x 42	0.02	
853.640	200 x 200 x 42	0.01	
853.628	300 x 300 x 44	0.3	
853.632	300 x 300 x 44	0.1	
853.636	300 x 300 x 44	0.04	
853.639	300 x 300 x 44	0.02	
853.641	300 x 300 x 44	0.01	

Frame spirit levels

- Graduation main vial: 0.02 -0.5 mm/m.
- Adjustable main vial.
- With cross test vial.
- Three faces with V-groove, interrupted at the center over 1/3 of the length. One flat face.
- DIN 877.
- Delivery in a luxurious case.

Item No.	Dimensions mm	Graduation mm/m	Price
853.372	150 x 150 x 40	0.5	
853.371	150 x 150 x 40	0.1	
853.375	150 x 150 x 40	0.05	
853.376	150 x 150 x 40	0.02	
853.374	200 x 200 x 40	0.5	
853.373	200 x 200 x 40	0.1	
853.385	200 x 200 x 40	0.05	
853.382	200 x 200 x 40	0.02	
853.395	250 x 250 x 40	0.05	
853.392	250 x 250 x 40	0.02	



853.376



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Crankshaft spirit levels

- Graduation main vial: 0.04-0.6 mm/m.
- With cross test vial.
- Base with a longitudinal and a lateral V-groove.

- Base width: 42 mm.
- DIN 877.



Item No.	Length mm	Graduation mm/m	Price
853.684	60	0.6	
853.687	60	0.2	
853.682	90	0.3	
853.685	90	0.1	
853.688	90	0.04	
853.683	120	0.3	
853.686	120	0.1	
853.689	120	0.04	

Aluminum spirit levels

- Graduation vial: 0.6 mm/m.
- Base with V-groove.
- Base width: 22 mm.
- DIN 877.



Item No.	Length/mm	Price
853.675	100	
853.676	150	
853.677	200	
853.678	250	
853.679	300	

Small spirit levels

Intended for simple tasks.

- Graduation vial: 0.1 or 0.3 mm/m.
- With longitudinal spirit level.
- Width: 24 mm.

- Flat base (interrupted at the center over 1/2 of the length).
- DIN 877.

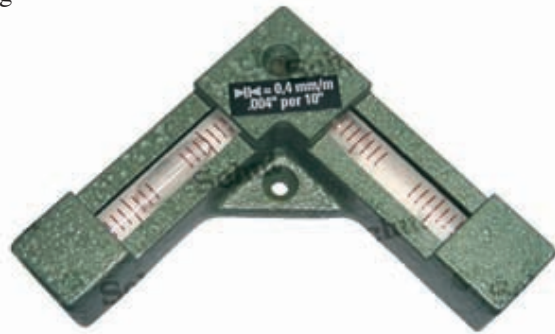
Item No.	Length mm	Graduation mm/m	Price
853.665	100	0.3	
853.666	100	0.1	
853.667	150	0.3	
853.668	150	0.1	



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Crankpin levels

Crankpin levels with two vials, in cast iron casing 80 x 80 mm, cross-section 20 x 20 mm, with two screw holes \varnothing 4 mm.



857.338

Item No.	Graduation mm/m	Price
857.338	0.4	
857.339	0.1	
857.340	0.05	



857.342

Crankpin levels with two vials, in circular chrome casing with three screw holes \varnothing 2.5 or \varnothing 4 mm.

Item No.	Graduation mm/m	Dimensions mm	Screw holes \varnothing /mm	Price
857.341	1	\varnothing 40 x 11	2.5	
857.342	0.4	\varnothing 80 x 23	4	
857.343	0.1	\varnothing 80 x 23	4	

Spirit levels with flat base

Spirit levels with a stainless steel strip base, no screw mounting, with an adjustable plexiglass vial mounted onto it, graduation approx. 5 mm/m.

Item No.	Dimensions base l x w x t/mm	Price
857.344	100 x 20 x 5	
857.345	150 x 20 x 5	
857.346	200 x 20 x 5	



857.344

Spirit levels with a stainless steel strip base, no screw mounting, with two ground contact planes. Mounted onto this an adjustable spirit level with cast iron housing, graduation 1 mm/m.

Item No.	Dimensions base l x w x t/mm	Price
857.347	100 x 20 x 5	
857.348	150 x 20 x 5	
857.349	200 x 20 x 5	



857.347

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Circular spirit levels

Item No.	Diameter mm	Height mm	Sensitivity* mm/m	Price
Plexiglass model with yellow and green base:				
857.315	12	7	approx. 22	
857.316	15	8	approx. 22	
857.317	18	9	approx. 22	
857.318	30	10	approx. 22	
Black synthetic model with frame and screw holes $\varnothing 2.5$ mm and yellow and green base:				
857.320	26/17	7 +3	approx. 19	
857.321	30/20	7.5+3.5	approx. 19	
Chrome casing and white base:				
857.323	15	10	approx. 8	
857.324	18	10	approx. 8	
Chrome casing with frame and screw holes $\varnothing 2.5$ mm (857.325: $\varnothing 1.5$ mm; 857.330/331: $\varnothing 3.5$ mm) and white base:				
857.325	20/13.5	7 +2	approx. 8	
857.326	25/17	7.5+2.5	approx. 8	
857.327	30/17	6.5+3.5	approx. 8	
857.328	35/20	7.5+3.5	approx. 6	
857.329	40/25	8 +4	approx. 6	
857.330	50/34	9.5+5.5	approx. 3	
857.331	60/39	10 +7	approx. 3	
857.332	25/17	7.5+2.5	approx. 2	
White, synthetic casing with frame and screw holes $\varnothing 3$ mm, additional scale circles and white base:				
857.336	60/45	4+6	Reading 0° -2° -5°	
Black, synthetic casing with frame and screw holes $\varnothing 5$ mm, additional scale circles and white base:				
857.337	100/75	5+10	Reading 0° -3° -6°	



857.318



857.320



857.323



857.331



857.336



857.337

* Sensitivity means: the angle at which the air bubble is moved to the next scale mark or edge of the vial.



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