



Digital inspection spirit level and digital frame spirit level

Accurate digital spirit levels in a high grade cast iron housing with fine ground measuring surfaces. The measuring value can be displayed in an App on an Android or Apple phone by Bluetooth.

- Measuring range: ± 15°.
- Graduation: 0.02 mm/m.
- Accuracy according to DIN 2276-2: 0.0015° or 0.04%H (H= Measured value).
- Measuring units: 13; e.g. mm/m, mm/200 or mm/150, inch/ft, °, %.
- ABS/INC switchable.
- Hold function.
- Color display with backlight.
- Temperature compensation.
- Semi-automatic calibration.
- Remote display by Bluetooth.
- Measuring surfaces fine ground: inspection spirit level: base with V-groove, frame spirit level: 3 faces with V-groove and 1 flat face.
- Dimensions: inspection spirit level: 200 x 47 x 42 mm, frame spirit level: 150 x 150 x 42 mm.
- Weight: inspection spirit level: 3.4 kg, frame spirit level: 4.4 kg.
- DIN 877 and DIN 2276-2.
- Delivery in a case with an AC adapter.



Item No.	Description
853.600	Digital inspection spirit level
853.651	Digital frame spirit level



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 EUR
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 EUR
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	



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.



Item No.	Length mm	Graduation mm/m	Price EUR
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.



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

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.



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



**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 EUR
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 EUR
853.675	100	
853.676	150	
853.677	200	
853.678	250	
853.679	300	

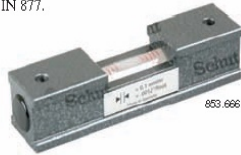
**Small spirit levels**

Intended for simple tasks.

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

- Equipped with mounting holes  $\phi$ 5 mm.
- Flat base.
- DIN 877.

Item No.	Length mm	Graduation mm/m	Price EUR
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  $\phi$ 4 mm.



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

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



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



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	



**Circular spirit levels**

Item No.	Diameter mm	Height mm	Sensitivity* mm/m	Price EUR
<b>Plexiglass model with yellow and green base:</b>				
857.315	12	7	approx. 22	5.40
857.316	15	8	approx. 22	6.60
857.317	18	9	approx. 22	7.60
857.318	30	10	approx. 22	9.70

<b>Black synthetic model with frame and screw holes <math>\phi</math>2.5 mm and yellow and green base:</b>				
857.320	26/17	7 + 3	approx. 19	9.80
857.321	30/20	7.5+3.5	approx. 19	11.00

<b>Chrome casing and white base:</b>				
857.323	15	10	approx. 8	36.80
857.324	18	10	approx. 8	36.80

<b>Chrome casing with frame and screw holes <math>\phi</math>2.5 mm (857.325: <math>\phi</math>1.5 mm; 857.330/331: <math>\phi</math>3.5 mm) and white base:</b>				
857.325	20/13.5	7 + 2	approx. 8	27.90
857.326	25/17	7.5+2.5	approx. 8	30.50
857.327	30/17	6.5+3.5	approx. 8	33.10
857.328	35/20	7.5+3.5	approx. 6	46.00
857.329	40/25	8 + 4	approx. 6	64.00
857.330	50/34	9.5+5.5	approx. 3	87.00
857.331	60/39	10 + 7	approx. 3	117.00
857.332	25/17	7.5+2.5	approx. 2	28.10

<b>White, synthetic casing with frame and screw holes <math>\phi</math>3 mm, additional scale circles and white base:</b>				
857.336	60/45	4+6	Reading 0° - 2° - 5°	80.00

<b>Black, synthetic casing with frame and screw holes <math>\phi</math>5 mm, additional scale circles and white base:</b>				
857.337	100/75	5+10	Reading 0° - 3° - 6°	93.00



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

**Hose water level**

- Measuring range: 10 cm.
- Graduation: 1 mm.
- Scale numbering: 5 - 0 - 5 cm.
- Hose length: 20 m (reducible).
- Hose cross-section: 7.5 mm.



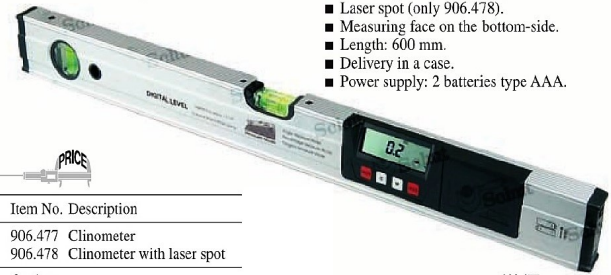
Item No.	Description	Price EUR
906.819	Hose water level	12.60

**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°:  $\pm$ 0.1°, 10 - 80°:  $\pm$ 0.2°, 80 - 90°:  $\pm$ 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.



Item No.	Description
906.477	Clinometer
906.478	Clinometer with laser spot
<b>Option:</b>	
497.914	Spare battery (2 needed)

**Laser alignment tool**

With this alignment tool you can exactly, quickly and easily project vertical, horizontal and crossed laselines. Within a range of  $\pm$ 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:  $\pm$  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:  $\phi$ 120 mm.
- Height: 170 mm.
- Weight: 420 g.

- Delivery in a case incl tripod.
- Power supply: 2 batteries type AA.



Item No.	Description
909.499	Alignment tool
<b>Option:</b>	
495.111	Spare battery (2 needed)



## Clinometers

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



Item No.	Description
857.302	Clinometer with removable base 100 mm
857.304	Base 200 mm
857.303	Clinometer with magnetic base 100 mm

## 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
857.300	Bases with V-groove
857.301	Flat magnetic bases

## 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
853.669	Clinometer

## Clinometer

To determine inclinations accurately. Fine-tuning by means of a screw thread spindle, which, to ensure a quick tuning, can be disconnected by pressing the button on the micrometer.

- Measuring range:  $\pm 180^\circ$ .
- Read-out in degrees and minutes.
- Scale numbering black clockwise, red counterclockwise.
- Graduation vial: 0.3 mm/m  $\cong$  1'.
- Hardened and ground base, with V-groove.
- Base dimensions: 150 x 30 mm.
- Height: 124 mm.



Item No.	Description
857.310	Clinometer

## TESA Clinobevel 1-USB digital clinometer

The TESA Clinobevel 1-USB is a compact and universal clinometer with four measuring faces and a reinforced aluminum housing, resistant to workshop conditions. For a higher accuracy 21 correction values can be stored. The software can perform calculations with two instruments and export automatic reports. A remote control device is optionally available, to take measurements without making contact with the Clinobevel or the measuring surface.

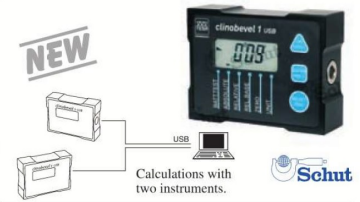
- Measuring range:  $\pm 45^\circ$ .
- Resolution: 0.025 mm/m (5").
- Accuracy: 2' + 1 sd.
- USB data output.
- Read-out after approx. 1 s when idle.
- Dimensions: 100 x 75 x 30 mm.
- Protection: IP65.
- DIN 2276 T2.
- Delivered in a plastic carrying case with a manufacturer measuring report, batteries, USB cable (1.8 m), software and user manual.
- Power supply: 4 batteries type AA.

**Read-out angles:**

- degrees (2 or 4 decimals)
- degrees and minutes

**Read-out inclination:**

- mm/m (2 decimals)
- inch/10 inch or inch/12 inch (4 decimals)
- mm or inch/basis length (comparative mode)
- milliradians (whole or 2 decimals)
- gon (2 decimals)



Item No.	Type/description	Price EUR
781.545	Clinobevel 1-USB	
783.624*	Clinobevel 1-USB	
<b>Options:</b>		
495.111	Spare battery (4 needed)	
779.050	Clinobevel Zapper remote control	
783.625	USB cable (1.8 m)	

\*Without USB cable and software.

## TESA Clinobevel 3 digital clinometer

The TESA Clinobevel 3 is a very accurate, robust and easy to use clinometer in cast iron or aluminum housing. Measuring values can be easily read from the clear LCD screen. Two sides are fitted with (optionally magnetic) measuring faces with a fine ground V-groove.

There are two models available:

- Measuring range:  $\pm 60^\circ$  or  $\pm 1^\circ$  (only available in the cast iron version),
- Resolution: 0.025 mm/m (60° model), 0.001 mm/m (1° model).



Especially suitable for calibration and measuring of straightness, flatness and squareness of high accuracy measuring and processing machines. For measurements in hard to reach places you can link the Clinobevel via bluetooth to the Android app and the readout will be displayed on your phone or tablet.

Ask for the detailed brochure