For all those who take pride in the quality of their work

True pro’s measure with STABILA
STABILA – How true pro’s measure.

The quality of the measurement determines the quality of the work. Craftsmen therefore need measuring instruments on whose accuracy they can absolutely rely – in any weather and under the most rigorous conditions. STABILA has built robust measuring instruments for professional use since 1889 that any craftsman can immediately use. Anyone, who appreciates quality, can place his trust in STABILA.
Laser measuring instruments for diverse areas of use

Laser levels and laser distance measurers are essential aids for any trade in construction due to their high level of accuracy and vast range. Rotation lasers are suitable for accurate levelling over great distances due to their working range of up to 500 m. With them, you can level horizontally and vertically and also create inclinations. Point and line lasers, on the other hand, are frequently used at close range. For direct work on visible laser lines and points, laser distance measurers are the first choice when it comes down to accurate, quick and simple distance measuring.

STABILA laser measuring instruments – saves time, saves errors, saves costs

The different laser functions

Rotation lasers
- LAR 250
- LAR 200
- LAPR 150

Point and line lasers
- LA 180 L
- LAX 400
- LAX 300
- FLS 90
- LA-5P

Accessories | Levelling rods | Tripods

- LD 520
- LD 420 | LD 320
- LD 250 BT | LD 220
# The different laser functions

<table>
<thead>
<tr>
<th>Function</th>
<th>Spectrum of use, e.g.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Point function</strong></td>
<td>Transfers a determined point from the floor to the ceiling.</td>
</tr>
<tr>
<td><strong>Right angle (90°)</strong></td>
<td>Vertical plane is inclined to the desired position.</td>
</tr>
<tr>
<td><strong>Line function, horizontal</strong></td>
<td>Horizontally projects a target unit.</td>
</tr>
<tr>
<td><strong>Line function, vertical</strong></td>
<td>Vertically projects a target unit.</td>
</tr>
<tr>
<td><strong>Plumb-line function</strong></td>
<td>Projects a level line onto the wall.</td>
</tr>
<tr>
<td><strong>Rotation function, horizontal</strong></td>
<td>Rotates horizontally through 360° around its vertical axis.</td>
</tr>
<tr>
<td><strong>Rotation function, vertical</strong></td>
<td>Rotates vertically through 360° around its vertical axis.</td>
</tr>
<tr>
<td><strong>Inclination function</strong></td>
<td>Projects predefined target walls, level, and axis compensation for ring beams.</td>
</tr>
</tbody>
</table>

### Function Spectrum of use, e.g.

- The laser beam projects a horizontal line onto the wall.
- Tile layout on walls. Transfer of heights when placing the sockets. Alignment of wall-mounted cupboards ...

- The laser projects vertical lines onto floors, walls and ceiling.
- Mark and align stud walls. Installation of heating pipes. Installation of arcade roof lights ...

- The laser beam rotates vertically through 360° around its vertical axis.
- Position predefined walls, level, and axis compensation for ring beams ...

- The horizontal plane is inclined to the desired position.
- Create yard areas, parking places and terraces. Level gauge access ...

### Safety advice:
The double safety system that we use ensures that the laser's power in our systems does not exceed that for laser Class 2 (under 1 milliwatt). Nevertheless, you should strictly avoid looking directly into the laser beam!
STABILA rotation laser: level large areas precisely

Rotations lasers measure at a very high degree of accuracy and are therefore best suited – in interaction with a receiver – for use at great distances. They offer great functionality and are flexible in their use both inside and out.

### Overview of rotation lasers

<table>
<thead>
<tr>
<th>Type</th>
<th>LAR 250</th>
<th>LAR 200</th>
<th>LAPR 150</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laser class</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Output</td>
<td>&lt; 1 mW</td>
<td>&lt; 1 mW</td>
<td>&lt; 1 mW</td>
</tr>
<tr>
<td>Laser wavelength</td>
<td>635 nm</td>
<td>650 nm</td>
<td>635 nm</td>
</tr>
<tr>
<td>Self-levelling area horizontal / vertical</td>
<td>≈ ± 5°</td>
<td>≈ ± 5°</td>
<td>≈ ± 1°</td>
</tr>
<tr>
<td>Levelling accuracy</td>
<td>± 0.1 mm/m</td>
<td>± 0.1 mm/m</td>
<td>± 0.2 mm/m (horizontal) ± 0.3 mm/m (vertical)</td>
</tr>
<tr>
<td>Working range set receiver</td>
<td>ø 350 m*</td>
<td>ø 550 m*</td>
<td>ø 240 m*</td>
</tr>
<tr>
<td>Operating life</td>
<td>120 h</td>
<td>120 h</td>
<td>80 h</td>
</tr>
<tr>
<td>Batteries included</td>
<td>2 x D 1.5 V</td>
<td>2 x D 1.5 V</td>
<td>2 x D 1.5 V</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP 65</td>
<td>IP 65</td>
<td>IP 54</td>
</tr>
</tbody>
</table>

### Laser functions

<table>
<thead>
<tr>
<th>Laser class</th>
<th>Overview of rotation lasers</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>LAR 250 – Self-levelling rotation laser</td>
</tr>
<tr>
<td>2</td>
<td>LAR 200 – Self-levelling horizontal rotation laser</td>
</tr>
<tr>
<td>2</td>
<td>LAPR 150 – Self-levelling pendulum rotation laser</td>
</tr>
<tr>
<td>2</td>
<td>NY 250 – Self-levelling horizontal rotation laser</td>
</tr>
<tr>
<td>2</td>
<td>REC 150 – Self-levelling horizontal rotation laser</td>
</tr>
</tbody>
</table>

* All at 25 °C, under optimum atmospheric conditions.

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[STABILA laser measuring instruments](#)
Self-leveling rotation laser LAR 250 with the REC 300 Digital receiver

Practical tip: easy alignment of parallel surfaces

Inclination mode: The STABILA LAR 250’s leveling plane can be tilted 5° in one direction by remote control.

Rec 300 Digital receiver: With this digital receiver you can read off the millimetre reference deviation directly in figures from the display. Long range: 8 cm high receiving area. Probably the fastest and most precise correction of heights provided by digital measuring techniques designed for the construction site.

For this you need the LAR 250 with remote control unit, a folding rule and the REC 300 Digital receiver.

1. Measure distances A and B from the wall and ensure that they are parallel.
2. Position the laser over point A. Align the laser in the vertical position.
3. Place the receiver over point B.
4. Connect points A and B: rotate the vertical plane in the direction of the receiver using the remote control unit.

Recommendation for application
- Concrete and piping specialists
- Garden designers and landscapers
- Reinforced concrete specialists
- Dry installers (dry walling)
- Fitters

Laser functions
- Point function
- Right angle (90°)
- Line function, horizontal
- Line function, vertical
- Plumb-line function
- Rotation function, horizontal
- Rotation function, vertical
- Inclination function

Art. No. 17106/3 17203/9*
* with construction tripod and leveling rod

IP 65

Robust, durable, accurate
- Fully automatic, motor-controlled rotation laser.
- Extreme robustness on account of the patented STABILA protector system. 8 functions cover all measuring methods on the construction site. With REC 300 Digital receiver: deviation can be read directly (in mm) on the reference level. 350 m working range. Measuring accuracy: ± 0.1 mm/m. For the hard day on the construction site.
- Water and dust-proof to IP 65.

STABILA laser measuring instruments

0 1 2 3 4 1 ± 5° – 1312
Self-leveling horizontal rotation laser LAR 200
with the REC 300 Digital receiver

The four-stage test procedure demonstrates:
Extremely robust

1. Drop test
2. Water test
3. Heat test
4. Dust test

Extremely robust: if the LAR 200 and tripod are knocked over – no problem! Just set up the tripod again, switch on and start measuring. The STABILA Protector System (patent applied for) cushions severe impacts. Water and dust-proof to IP 65. This says it all. And it is also cold and heat resistant, of course.

Easy-to-use: one switch – just press – one function – fast setup for reliable self-levelling. 550 m working range: when linked to the REC 300 Digital receiver it becomes the winning team for large sites. Machine compatible: the LAR 200 is compatible with most machine controls.

Recommendation for application
- Concrete and piping specialists
- Garden designers and landscapers
- Bricklayers
- Reinforced concrete specialists
- Carpenters

Laser functions
- Plumb-line function
- Rotation function, horizontal

IP 65

Art. No. 17062/2

STABILA laser measuring instruments
Reliable even at the greatest of distances
The specialist for outdoor horizontal applications: • Fully automatic motor-controlled rotation laser. • 550 m working range with REC 300 Digital receiver. • Easy to use – one switch operated. • Extremely robust due to STABILA protector system. • Measuring accuracy: ± 0.1 mm/m. • Water and dust-proof to with IP 65.

REC 300 Digital receiver:
More information on page 30.

ø 550 m working range
Laser functions
- Point function
- Right angle (90°)
- Line function, horizontal
- Line function, vertical
- Plumb-line function
- Rotation function, horizontal
- Rotation function, vertical

Recommendation for application
- Tilers
- Flooring fitters and Screed layers
- Dry installers (dry walling)
- Electricians
- Plumbers

Self-levelling pendulum rotation laser LAPR 150

- Change from horizontal to vertical position: The complete prism unit is swivelled precisely by 90° in the guide channel.
- Battery drawer: Easy replacement directly on the tripod as well.

Quick, versatile, uncomplicated
- No waiting time: quick self-levelling due to pendulum technology geared to the construction site. Levels itself much more quickly than a motor-controlled rotation laser. • Large working range: 240 m with receiver.
- The most important laser functions combined in one instrument: horizontal and vertical rotation, three-stage scan. Plumb 90° angle.
- Pendulum protected during transport by forced blocking. • Protected in all positions by stable metal bows and shock-absorbing soft grip casing.
- Measuring accuracy, horizontal ± 0.2 mm/m, measuring accuracy in vertical operation: ± 0.3 mm/m.
- Protection class IP 54 (Protection against dust deposits in the interior. Protection against spray water from any direction).

Battery drawer: Easy replacement directly on the tripod as well.

Battery drawer: Easy replacement directly on the tripod as well.

STABILA laser measuring instruments
Point and line lasers are suitable for the interior if work is to take place on a visible line or a point. The compact instruments can easily be carried with their belt pouches and all have a measuring distance of up to 30 m. For line lasers with pulsed laser lines, the measuring distance can be distinctly extended by the use of a line receiver.

### Overview of point and line lasers

<table>
<thead>
<tr>
<th>Type</th>
<th>LA 180 L</th>
<th>LAX 400</th>
<th>LAX 300</th>
<th>FLS 90</th>
<th>LA-5P</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Laser functions</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Laser class</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Output</td>
<td>(&lt; 1 \text{ mW})</td>
<td>(&lt; 1 \text{ mW})</td>
<td>(&lt; 1 \text{ mW})</td>
<td>(&lt; 1 \text{ mW})</td>
<td>(&lt; 1 \text{ mW})</td>
</tr>
<tr>
<td>Laser wavelength</td>
<td>635 nm</td>
<td>635 nm</td>
<td>635 nm</td>
<td>635 nm</td>
<td>635 nm</td>
</tr>
<tr>
<td>Self-levelling range</td>
<td>approx. ± 5.0°</td>
<td>approx. ± 4.0°</td>
<td>approx. ± 4.5°</td>
<td>–</td>
<td>approx. ± 4.5°</td>
</tr>
<tr>
<td>Measuring distance</td>
<td>Visible line 20 m*</td>
<td>Visible line 20 m*</td>
<td>Visible line 20 m*</td>
<td>Visible line 15 m*</td>
<td>Visible point 30 m*</td>
</tr>
<tr>
<td>Measuring distance set receiver</td>
<td>Up to 100 m**</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Operating life</td>
<td>approx. 20 h</td>
<td>approx. 10 h</td>
<td>approx. 20 h</td>
<td>approx. 20 h</td>
<td>approx. 20 h</td>
</tr>
<tr>
<td>Lasers included</td>
<td>LA 180 L</td>
<td>LA 400</td>
<td>LA 300</td>
<td>FLS 90</td>
<td>LA-5P</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP 54</td>
<td>IP 54</td>
<td>IP 54</td>
<td>IP 54</td>
<td>IP 54</td>
</tr>
<tr>
<td><strong>Comprising</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Laser</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Receiver</td>
<td>REC 410 Line RF with holder</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Laser goggles</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Target plate</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Wall mounting</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Belt pouch</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Rigid carrying case</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Laser telescopic support</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Art. No.</td>
<td>18044/7</td>
<td>18702/6</td>
<td>18327/1</td>
<td>18574/9</td>
<td>18328/8</td>
</tr>
<tr>
<td><strong>Note:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Indoors under typical operating conditions.
** Range is up to 100 m straight ahead and 40 m at 45° to the device axis.
Self-levelling multi-line laser LA 180 L

Laser functions
- Line function, horizontal
- Line function, vertical
- Right angle (90°)
- Plumb-line function

Recommendation for application
- Bricklayers
- Reinforced concrete specialists
- Dry installers (dry walling)
- Metalworkers
- Carpenters

With the LA 180 L’s three vertical laser lines, axes can be aligned and rectangular spaces created at the same time.

1. Measure the marking points A and B parallel to the wall.
2. Position the laser on marking point A and the receiver on marking point B.
3. Roughly align the laser manually.
4. Pressing the button on the receiver will automatically join points A and B. The vertical levels align themselves automatically.

Transfer axes – from batter boards to the foundation slab. The vertical laser lines are automatically aligned, up to 40 m, at the touch of a button.

Transfer axes – from batter boards to the foundation slab. The vertical laser lines are automatically aligned, up to 40 m, at the touch of a button.

Art. No. 18044/7

Self-levelling multi-line laser LA 180 L

Layout work – faster and more accurate than ever before.

- Self-levelling multi-line laser for precision results – motorised controller and accuracy of ± 0.07 mm/m. • AUTOALIGNMENT function: Receiver automatically controls fine alignment of the laser (up to 40 m) – automatic axis transfer and creation of right angles. Precise alignment without losing the reference point – no measurement errors. • Pulsed laser lines for exact height measurements with the receiver (up to 100 m) indoors and outdoors. • Versatile: 3 vertical lines, 1 horizontal line and plumb-line function. • Extra sharp, easy-to-see lines for fast and efficient working directly on the laser line – measuring range up to 20 m indoors. • Unique housing shape for positioning in room corners and over edges (e.g. concrete slab) – rapid checking of right angles. • Shock-absorbing soft grip casing. • Extensive accessory set: small and large target plates, laser goggles and carrying case. • Optional: battery unit.

Optional accessories
- Batter board holder SR 100: Tough holder for use on batter boards (Art. No. 18904).
- Battery unit AE-LA180L: Powerful NiMH battery for long periods of use (Art. No. 17934).

REC 410 Line RF receiver: Specially developed for the LA 180 L laser. The receiver receives the pulsed laser lines and automatically controls fine alignment of the laser.

Practical tip: Setting up perfect right angles.

NEW
The professional laser for interior construction.

- A 360° horizontal line for marking, alignment and levelling around the entire room.
  - MANUAL ALIGNMENT: Two vertical lines form a 90° angle. The knob on the housing is used for fine adjustment of the lines. The laser lines can be pivoted to a target position without losing the position of the plumb-line dot. Ideal for accurately positioning partition walls with U-profiles.
- Ideal for working directly on the laser lines. For transferring the layout from the floor to the ceiling. For quick and accurate plum bobbing.
- Very bright, narrow and clean laser lines. Measuring distance of visible line 20 m.
- Stable aluminium housing cover to protect the horizontal laser optics.
- Shock-absorbent STABILA soft grip casing.
- Protection class IP 54 (protection against dust deposits on the inside. Protection against splash water from all directions).
- Pulsed laser lines for working over long distances: up to 40 m (measuring distance) with REC 220 Line receiver.

Art. No. 18702/6 18862/7* 18863/4**

* with receiver
** with laser telescopic support

Self-levelling multi-line laser LAX 400

MANUAL ALIGNMENT for accurate pivoting of the right angle

Use the knob on the housing to manually pivot the laser to the marking point or U-profile, creating the right angle.

Use the knob on the housing to manually pivot the laser to the marking point, creating the right angle.

Laser functions
- Line function, horizontal
- Line function, vertical
- Right angle (90°)
- Plumb-line function

Recommendation for application
- Drywallers
- Tilers
- Electricians
- Plumbers
- Carpenters / joiners

Practical tip: Accurate positioning of the right angle

1) Park position.
2) Housing can pivot 360° inside the U-shaped housing.
3) The height of the laser can be adjusted thanks to the extendable foot. The bearing surface enables the laser to be positioned on elements such as U-profiles.

The two vertical laser lines of the LAX 400 allow right-angled rooms to be created.

- Measure the marking points A and B parallel to the wall.
- Position the laser on marking point A and the target plate on marking point B.
- Roughly align the laser.
- Use the knob on the housing to manually pivot the laser to the marking point, creating the right angle.
For marking out the floor, walls and ceiling at the same time.

- One horizontal line, one vertical line, plumb-line points upwards and downwards, with an extendable foot.
- Optimal for working directly on the laser line. For the transfer of the layout from the floor to the roof. For quick and precise plumbing.
- Very bright, narrow and clear laser lines.
- The laser can be rotated through 360° in its housing.
- Shock-absorbent STABILA soft grip casing.
- Protection class IP 54 (Protection against dust deposits on the inside. Protection against splash water from all directions).
- Park position: Optimal protection of the optical equipment against dust and scratches by rotation inside the U-shaped housing.
- Pulsed laser lines for working over long distances: up to 80 m (measuring distance) with REC 220 Line receiver.

Self-levelling cross line plus plumb points laser LAX 300

- Line function, horizontal
- Line function, vertical
- Plumb-line function

Recommendation for application
- Electricians
- Tilers
- Drywallers
- Window fitters
- Carpenters / joiners

- The vertical laser line covers almost the entire room.
Floor line laser FLS 90

The dual purpose base: The innovative base with its claws makes the exact positioning of the STABILA floor line laser FLS 90 on tiles particularly easy.

Laser functions
- Right angle (90°)

Recommendation for application
- Tilers
- Flooring fitters
- Drywallers

With the floor line laser FLS 90, you can work directly on the laser line this is more accurate and saves time.

The STABILA floor line laser FLS 90 can be optimally positioned in the corners of rooms and creates an exact 90° angle (± 0.3 mm/m).

Increase your productivity:
- Check the squareness of walls accurately.
- Fast layout markup.
- Working directly on the laser line is more accurate and saves time.
- Tiles can be 100% exactly aligned.
- Chalk lines are covered over with tile adhesive or easily rubbed away – laser lines remain visible.

Now up to 15 m visible laser lines on the floor.

This handy laser allows really fast and clean work – whether laying tiles, parquet, laminate, carpet or PVC. The new optical system focuses the laser lines and projects them along the floor. This ensures optimum visibility – razor sharp lines up to 15 m. At the press of a button straight laser lines at a perfect 90° angle.

The STABILA laser measuring instruments

Art. No.
18574/9

On tiles:
Positioning claws down.
The dual purpose base is seated precisely on the tile and transfers a 90° angle into room.

On flat surfaces:
Positioning claws upwards.
The laser can be used for any layout work.

Pulsed laser lines for working over long distances: up to 100 m (measuring distance) with REC 220 Line receiver.
Perfect transfer of 90° angles

• 5 laser points: Upwards and downwards plumb laser with extendable foot and 3 horizontal points which form two 90° angles. • Optimal for setting out and transferring right angles. For the transfer of the layout from the floor to the ceiling, for both straight and curved walls. For rapid and accurate alignment. • Thanks to the instrument’s ability to transfer angles through 90°, more than one axis can be aligned at the same time and two right angles set out – for example for layouts used in dry-walling. • Very easily distinguishable, bright, narrow laser dots. Visible measuring distance of the dot 30 m. • Shock-absorbent STABILA soft grip casing. • Protection class IP 54 (Protection against dust deposits on the inside. Protection against splash water from all directions). • Park position: Optimal protection of the optical equipment against dust and scratches by rotation inside the U-shaped housing. Additional protective switch for sideways horizontal points.

Laser functions
• Point function
• Right angle (90°)
• Plumb-line function

Recommendation for application
• Dry installers (dry walling)
• Metalworkers
• Foremen
• Fitters

Self-levelling 5 point laser LA-5P

Art. No. 18328/8 18483/4*
* with laser telescopic support

Work directly on u-profile channels thanks to the height extendable foot.
STABILA laser measuring instruments

Laser accessories

Receiver

REC 300 Digital receiver: measure more intelligently – work more efficiently

Digital display of the reference deviation in mm.

Read the deviation from the reference height directly in figures: exact mm readings. E.g. faster and more precise correction of strut positions and concrete levels.

No troublesome moving the receiver on the levelling rod.

Art. No. 16957/2

REC 220 Line receiver

For working over long distances or in bright indoor lighting conditions, for all STABILA lasers with pulsed laser lines: LAX 300, LAX 400, FLS 90.

Art. No. 16962/6

REC 150 receiver

The STABILA REC 150 is an easy-to-use receiver for quickly locating rotation lasers.

Art. No. 18642/5

Leveling rod

NL anodised aluminium levelling rod. For all STABILA laser receivers and receiving units. Extendable up to 240 cm; scale in "mm" gradations; ± 50 cm gradations. With adjustment slide for optimal display clarity and trouble-free height definition.

Art. No. 07468/5

Laser telescopic support

LT 30

Laser telescopic support

Variable positioning of lasers at a required working height.

Height: 20 – 365 cm

Weight: 2.7 kg

Art. No. 18238/0

Laser accessories

Digital display of the reference deviation in mm.

Measuring made simple.

A series of symbols indicate your distance from the reference height and whether you are too high or low. Two sensitivity levels simplify setting up over longer or shorter distances. If you also switch on the acoustic signals, you can select two volume levels.

Digital display of the reference deviation in mm.

Measuring made simple.

A series of symbols indicate your distance from the reference height and whether you are too high or low. Two sensitivity levels simplify setting up over longer or shorter distances. If you also switch on the acoustic signals, you can select two volume levels.

LT 30

Laser telescopic support

Variable positioning of lasers at a required working height.

Height: 20 – 365 cm

Weight: 2.7 kg

Art. No. 18238/0
The tripod is one of the most important instruments when working with laser instruments. With the aid of a tripod mounted on a laser instrument, you can—depending on the type and height of the tripod—level out nearly any height from approx. 70 cm to 300 cm horizontally. Modern tripods are produced from aluminium and are thus very light but, at the same time, very stable. Rapid locking allows very quick alignment of the tripod on uneven terrain. The construction tripods with lifting column have tripod legs with spikes and a rotatable hard rubber shoe for scratch-free use indoors.

**BST-S**
Construction tripod with spread stop, rapid locking and shoulder strap.
- Height: approx. 100 – 160 cm
- Thread: 5/8”
- Weight: approx. 6.0 kg

**BST-K-M**
Construction tripod on air-cushioned lifting column, spread stop and quick-release fastener.
- Height: approx. 69 – 170 cm
- Thread: 5/8”
- Weight: approx. 6.5 kg

**BST-K-L**
Construction tripod on air-cushioned lifting column, spread stop and quick-release fastener.
- Height: approx. 98 – 220 cm
- Thread: 5/8”
- Weight: approx. 6.5 kg

**BST-K-XL**
Construction tripod with air-damped lifting column, metric scale, spread stop and quick-release fastener.
- Height: approx. 118 – 300 cm
- Thread: 5/8”
- Weight: approx. 7.3 kg

**NK 100 base plate**
Ideal for indoor construction work: a height-adjustable base plate (wall-mounting bracket) for rotation lasers. Hung on a nail or a profiled track. Range of applications: hanging suspended ceilings, screeding, etc.
Simply indispensable: STABILA laser distance measurer

From measuring out to taking dimensions right up to checking what’s been build – measuring with laser distance technology can be found everywhere on the construction site. The advantages are obvious: extremely high measuring accuracy also over long distances, time and cost-saving, many additional measuring information without additional work.

<table>
<thead>
<tr>
<th>Type</th>
<th>Laser class</th>
<th>Output</th>
<th>Laser wavelength</th>
<th>Measuring distance</th>
<th>Operating life</th>
<th>Batteries included</th>
<th>Bluetooth</th>
<th>Inclination sensor</th>
<th>Digital target locator</th>
<th>Functions</th>
<th>Protection class</th>
<th>Comprising</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD 520</td>
<td>2</td>
<td>&lt; 1 mW</td>
<td>635 nm</td>
<td>0.05 – 200 m</td>
<td>–</td>
<td>2 x AA</td>
<td>–</td>
<td>± 1.0 mm</td>
<td>–</td>
<td>18 functions</td>
<td>IP 54</td>
<td>Laser</td>
</tr>
<tr>
<td>LD 420</td>
<td>2</td>
<td>&lt; 1 mW</td>
<td>635 nm</td>
<td>0.05 – 100 m</td>
<td>–</td>
<td>2 x AAA</td>
<td>–</td>
<td>± 1.0 mm</td>
<td>–</td>
<td>12 functions</td>
<td>IP 54</td>
<td>Batteries</td>
</tr>
<tr>
<td>LD 320</td>
<td>2</td>
<td>&lt; 1 mW</td>
<td>635 nm</td>
<td>0.05 – 60 m</td>
<td>–</td>
<td>2 x AAA</td>
<td>–</td>
<td>± 1.5 mm</td>
<td>–</td>
<td>8 functions</td>
<td>IP 40</td>
<td>Belt pouch</td>
</tr>
<tr>
<td>LD 250 BT</td>
<td>2</td>
<td>&lt; 1 mW</td>
<td>635 nm</td>
<td>0.2 – 50 m</td>
<td>–</td>
<td>2 x AAA</td>
<td>–</td>
<td>± 2.0 mm</td>
<td>–</td>
<td>4 functions</td>
<td>IP 54</td>
<td>Wrist strap</td>
</tr>
<tr>
<td>LD 220</td>
<td>2</td>
<td>&lt; 1 mW</td>
<td>635 nm</td>
<td>0.2 – 30 m</td>
<td>–</td>
<td>2 x AAA</td>
<td>–</td>
<td>± 3.0 mm</td>
<td>–</td>
<td>–</td>
<td>IP 54</td>
<td>Art. No.</td>
</tr>
</tbody>
</table>

* Favourable conditions: white and diffusely reflecting target (wall painted white), weak background lighting, moderate temperatures

Overview of laser distance measures
Laser distance measurers: Overview of functions

1) Length measurement.
2) Area measurement.
3) Volume measurement.
4) Continuous measurement.
5) Chain measurements.
6) Pythagoras function 1: Determines a distance using two related measurements.
7) Pythagoras function 2: Determines a distance using three related measurements.
8) Minimum tracking: Minimum continuous measurement is used to determine the shortest distance between two points.
9) Maximum tracking: Continuous measurement to determine e.g. the maximum diagonal measurement.
10) Timer: Self-timer function, e.g. for shake-free measurement from a tripod.
11) Stake out distances.
12) Inclination measurement: The inclination sensor measures inclinations in the range ± 180°.
13) Indirect distance measurement: Allows measurement of a horizontal line that cannot be directly accessed.
14) Indirect height measurement: Determines a height (e.g. of a building) that does not offer a suitable reflection point.
15) Measurement of inclined objects: Enables inclined, not directly accessible distances (e.g. a roof slope) to be measured.
16) Elevation profile measurement: Determines the difference in height between a reference point and other measurement points.
17) Trapezoidal measurement: Allows measurement of oblique lines that are not directly accessible.
18) Triangular area measurement: Calculates the area of a triangle by measuring the sides of the triangle.
Do you use mobile devices such as the iPhone or iPad on the building site? If so you will be impressed by the facilities offered by the LD 520. The integrated Bluetooth® Smart (4.0) technology allows wireless transfer of your measurement data from the LD 520.

We have developed a free app for your iPhone or iPad, STABILA Measures, enables you to produce drawings of areas, spaces and buildings, or quick sketches by hand, and to dimension them directly. Also measuring data can be easily inserted into photos of the site. As a result you can document everything straight away on site and communicate with your team via your smartphone.

In the crosshairs: exact targeting even in strong sunlight
• Very useful in strong sunshine and over long distances: you no longer have to look for a little red laser point.
• Large colour camera display allows you to align the LD 520 accurately to the target point.
• Enlarge or reduce the view with the 4x zoom.
• Crosshair sight helps you aim at the target point. The distance is then measured precisely.
• Display brightness can be easily adjusted to suit ambient light conditions.
• The light sensor automatically controls the display lighting. This helps conserve battery life.

Laser distance measurer LD 520

Art. No. 18562/6

Digital Target Locator. The smart way to measure
• Digital target locator with 4x zoom to measure distances up to 200 m. • 2.4” colour display. • High image resolution – pin-sharp images even in strong light. • Bluetooth® Smart (4.0) offers simple data exchange, e. g. with iPhone or iPad. • New STABILA Measures app lets you insert measurements directly into photos or drawings. • 360° inclination sensor for flexible measurement from any position (displays ± 180°). The sensor allows you to make absolutely horizontal measurements and is also the basis for several new measurement functions (e. g. measuring over obstructions). • Built-in calculator lets you multiply or divide measurement data by fixed values (e. g. hourly rates or materials costs). This gives you usable calculated figures, enabling you to give meaningful quotations on site. • Comprehensive function package.
• Professional measurement accuracy, typical ± 1.0 mm. • IP 54 protection class against rain / dust. • Robust, impact-resistant housing with shock-absorbing soft grip casing.

The range and accuracy specifications fulfill the new ISO 16331-1 standard.
The measuring genius

The LD 420 is flexible in use. You add your personal constants to the memory – for example the working hour costs, the price per square metre of a material – then measure the rooms, use your constants to calculate the costs and present your offer in next to no time.

• You can call up additional information for many functions (Pythagoras, area, volume etc.): e.g. scope, wall and ceiling areas etc.
• Building site compatible design: The new LD 420 is protected against water and dust in accordance with IP 65 and has an impact-resistant housing with shock-absorbing STABILA soft grip casing.
• Measuring accuracy: type ± 1.0 mm.
• Range: type 0.05 – 100 m.

Laser distance measurer LD 420

The range and accuracy specifications fulfil the new ISO 16331-1 standard.

Belt pouch for easy carrying.

Laser distance measurer LD 320

The range and accuracy specifications fulfil the new ISO 16331-1 standard.

Belt pouch for easy carrying.

The compact class

Provides all the measuring technology that many craftsmen need on the building site.

• Rapid measurements – easy to operate measuring functions.
• Good readability thanks to large figures and illuminated display.
• Impact-resistant housing with shock-absorbing STABILA soft grip casing.
• Measuring accuracy: type ± 1.5 mm.
• Range: type 0.05 – 60 m.

Laser distance measurer LD 320

Belt pouch for easy carrying.

Laser distance measurer LD 420

Belt pouch for easy carrying.

STABILA laser measuring instruments
Simple measurements — clever documentation

- Compact, easy-to-use laser with integrated Bluetooth® Smart 4.0 technology enables measurement data to be wirelessly transferred from the laser to a smartphone or tablet.
- Free STABILA Measures app lets you transfer measurements directly to photos of the building site or drawings.
- 4 basic measurement functions: length, area, volume and continuous measurement.
- The laser delivers fast measurement results and assists you in your daily work, when calculating how much material is needed, for example.
- The large digits and display lighting make it easy to read.
- Impact-resistant housing with shock-absorbent STABILA soft grip casing.
- Designed for measurements up to 50 m.

The range and accuracy specifications fulfil the new ISO 16331-1 standard.

Art. No. 18816/0
NEW

Measuring made easy

- Compact, easy-to-use laser with 4 basic measuring functions: length, area, volume and continuous measurement.
- The laser delivers fast measurement results and assists you in your daily work, when calculating how much material is needed, for example.
- The large digits make it easy to read.
- Impact-resistant housing with shock-absorbent STABILA soft grip casing.
- Designed for measurements up to 30 m.

Art. No. 18817/7

ISO 16331-1
Accuracy & Range

STABILA laser measuring instruments
NEW
NEW

ISO 16331-1
Accuracy & Range

STABILA laser measuring instruments
NEW
NEW
You will find out here why STABILA spirit levels are so special:

The best quality is worthwhile. Sooner or later.

Every craftsman knows that not everything runs smoothly on the construction site. How good it is then when you can rely on the fact that your tools will not let you down when you need them. Just imagine: your spirit level falls from the scaffold and, after a hard bang, it works just as accurately as it did on the first day. That is STABILA quality!

STABILA spirit levels are constructed with a fixed moulded vial which measures absolutely accurately even under demanding conditions – no readjustment necessary. For this reason craftsmen worldwide trust our spirit levels. At STABILA, every craftsman finds the right spirit level: depending on his requirements and application needs – light or robust, short or long, up to and including special spirit levels which are intended completely for one trade.

How do you recognise a good spirit level?

<table>
<thead>
<tr>
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<tbody>
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<tr>
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</tbody>
</table>

For the warranty declaration, see back page.
STABILA spirit levels – the basic principle of precision:

100 percent accuracy – permanently true

Adjusted with micrometre precision and unshakeably bonded

In STABILA spirit levels, the vial, the vial block holder and the measuring surfaces of the profile are adjusted precisely to one another in the production process and permanently bonded with synthetic resin. Only in this manner is it guaranteed that all components are parallel and unshakeably aligned to one another so that the spirit level measures accurately even after many years of rugged use.

This is how we secure permanent precision:

STABILA installation technology:
The precision manufacturing technology makes for long-term accuracy. In a special casting process, the three components are firmly bonded forever.

You can trust your spirit level that it will maintain its accuracy for life. It remains accurate just as it was on the first day. No readjustment, no doubts, always accurate measurements – even under the most difficult construction site conditions.

Vials:
Highly accurate internal contours. Embedded corrosion-free reference rings. No hindrance of bubble through static loading or mechanical influence. Fluorescent vial liquid with high resistance against UV-rays.

Temperature protection:
Our spirit levels are extremely temperature-resistant. We guarantee accurate readings from -20 °C to +50 °C.

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Highly accurate internal contours. Embedded corrosion-free reference rings. No hindrance of bubble through static loading or mechanical influence. Fluorescent vial liquid with high resistance against UV-rays.

Temperature protection:
Our spirit levels are extremely temperature-resistant. We guarantee accurate readings from -20 °C to +50 °C.
Short portrait: Type R 300

- Extremely robust: Torsion-resistant five-chamber ‘R’ profile.
- Extremely stable: Extra-wide measuring surface (4 cm).
- Exact line-marking: Three accurate linemarking and cutting edges over the full length.
- Extremely handy: Handrail with finger groove over the full length.
- High level of measuring accuracy. In normal and reverse position 0.5 mm/m.
- Two coated measuring surfaces.
- Patented anti-slip stoppers make for a firm seat when marking.
- Removable end caps alleviate use right in the corner.
- Shock-absorbing end caps protect the spirit level profile if it falls.
- 10 years warranty.

Type R 300

<table>
<thead>
<tr>
<th>Type</th>
<th>Accuracy in normal position</th>
<th>Accuracy in reverse position</th>
<th>Measuring surfaces</th>
<th>Vial type</th>
<th>End caps</th>
<th>Length / Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>R 300</td>
<td>0.029° = 0.5 mm/m</td>
<td>0.029° = 0.5 mm/m</td>
<td>2 x horizontal</td>
<td>1 x horizontal</td>
<td>Removeable / Anti-slip stopper / Shock absorbers</td>
<td>61 cm* 18371/4</td>
</tr>
</tbody>
</table>

Extremely robust: Torsion-resistant five-chamber ‘R’ profile. Developed for the most demanding building site use.

Extremely stable: Extra-wide measuring surface. Prevents tip-overs during the measuring process.

Exact line-marking: Three accurate linemarking and cutting edges over the full length. Continuous bridge over the horizontal vial.

Extremely handy: Handrail with finger groove over the full length. Easy to use when measuring and carrying.

* Continuous bridge over the horizontal vial increases the stability of the profile.
**Series 196**

- Extra stiff aluminium rectangular profile with reinforcing ribs.
- High level of measuring accuracy. In normal and reverse position 0.5 mm/m.
- Two milled measuring surfaces of up to 122 cm.
- Patented anti-slip stoppers make for a firm seat when marking.
- Removeable end caps alleviate use right in the corner.
- Shock-absorbing end caps protect the spirit level profile if it falls.
- Finger-grip opening for firm, secure hold.
- 10 years warranty.

**Type**

<table>
<thead>
<tr>
<th>Type</th>
<th>Accuracy in normal position</th>
<th>Accuracy in reverse position</th>
<th>Measuring surfaces</th>
<th>Vial type</th>
<th>End caps</th>
<th>Special feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>196-2</td>
<td>0.029° = 0.5 mm/m</td>
<td>0.029° = 0.5 mm/m</td>
<td>2 x</td>
<td>1 x horizontal / 2 x vertical</td>
<td>Removeable / Antislip stoppers / Shock absorbers</td>
<td>–</td>
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<tr>
<td>196-2 LED</td>
<td>0.029° = 0.5 mm/m</td>
<td>0.029° = 0.5 mm/m</td>
<td>2 x</td>
<td>1 x horizontal / 2 x vertical</td>
<td>LED</td>
<td>–</td>
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</table>

**Length / Art. No.**

<table>
<thead>
<tr>
<th>Length / cm</th>
<th>Art. No.</th>
</tr>
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<tbody>
<tr>
<td>61 cm</td>
<td>15233/8</td>
</tr>
<tr>
<td>80 cm</td>
<td>15234/5</td>
</tr>
<tr>
<td>100 cm</td>
<td>15235/2</td>
</tr>
<tr>
<td>122 cm</td>
<td>15236/9</td>
</tr>
<tr>
<td>183 cm*</td>
<td>15237/6</td>
</tr>
<tr>
<td>200 cm*</td>
<td>17209/1</td>
</tr>
</tbody>
</table>

**Short portrait:**

- Series 196

  - Extra stiff aluminium rectangular profile with reinforcing ribs.
  - High level of measuring accuracy. In normal and reverse position 0.5 mm/m.
  - Two milled measuring surfaces of up to 122 cm.
  - Patented anti-slip stoppers make for a firm seat when marking.
  - Removeable end caps alleviate use right in the corner.
  - Shock-absorbing end caps protect the spirit level profile if it falls.
  - Finger-grip opening for firm, secure hold.
  - 10 years warranty.
**Short portrait: Series 96**

- Extra stiff aluminium rectangular profile with reinforcing ribs.
- Measuring accuracy in normal position 0.5 mm/m and in reverse position 0.75 mm/m.
- Two milled measuring surfaces of up to 122 cm.
- Patented anti-slip stoppers make for a firm seat when marking.
- Removable end caps alleviate use right in the corner.
- Shock-absorbing end caps protect the spirit level profile if it falls.
- 10 years warranty.

**Series 96**

- Type 96-2 M: Rare-earth magnets with additionally strong adhesive force. You always have your hands free in aligning and adjusting metal objects.
- Type 96-2 K: Patented impact protection. Correct bricks, if out-of-line, with light taps of a trowel.

---

<table>
<thead>
<tr>
<th>Type</th>
<th>Accuracy in normal position</th>
<th>Accuracy in reverse position</th>
<th>Measuring surfaces</th>
<th>Vial type</th>
<th>Product numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>96-2</td>
<td>0.029° = 0.5 mm/m</td>
<td>0.043° = 0.75 mm/m</td>
<td>2 x horizontal</td>
<td>1 x horizontal, 2 x vertical</td>
<td>15225/3, 15852/1</td>
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<tr>
<td>96-2 M</td>
<td>0.029° = 0.5 mm/m</td>
<td>0.043° = 0.75 mm/m</td>
<td>2 x horizontal</td>
<td>1 x horizontal, 2 x vertical</td>
<td>15226/0, 15852/5</td>
</tr>
<tr>
<td>96-2 K</td>
<td>0.029° = 0.5 mm/m</td>
<td>0.043° = 0.75 mm/m</td>
<td>2 x horizontal</td>
<td>1 x horizontal, 2 x vertical</td>
<td>15227/7, 15853/8</td>
</tr>
</tbody>
</table>

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* Continuous bridge over the horizontal vial increases the stability of the profile.
STABILA spirit levels
Extra stiff aluminium rectangular profile with reinforcing ribs.
Completely washable. Dust and water-proof in accordance with IP 65.
Two digital displays optimally readable in any situation of use – illuminated at the touch of a button.
Audible target guide with three different signals.
High level of measuring accuracy. In normal and reverse position 0.5 mm/m.
Two milled measuring surfaces.
Instant measurement determination.
A battery life of about 150 hours.
Includes bag for secure transport.
10 years warranty*. 

Series 196 electronic IP 65

<table>
<thead>
<tr>
<th>Type</th>
<th>Accuracy in normal position</th>
<th>Accuracy in reverse position</th>
<th>Accuracy with electronic inclination measurement</th>
<th>Measuring surfaces</th>
<th>Vial type</th>
<th>End caps</th>
<th>Display modes</th>
<th>Special feature</th>
<th>Length / Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>196-2 electronic IP 65</td>
<td>± 0.029° = 0.5 mm/m</td>
<td>± 0.029° = 0.5 mm/m</td>
<td>± 0.029° = 0.5 mm/m</td>
<td>2 x horizontal</td>
<td>1 x horizontal</td>
<td>1 x horizontal</td>
<td>decimal and as fraction</td>
<td>Rare-earth magnet</td>
<td>40 cm 17705/8</td>
</tr>
<tr>
<td>196-2-M electronic IP 65</td>
<td>± 0.029° = 0.5 mm/m</td>
<td>± 0.029° = 0.5 mm/m</td>
<td>± 0.029° = 0.5 mm/m</td>
<td>2 x horizontal</td>
<td>1 x horizontal</td>
<td>1 x horizontal</td>
<td>decimal and as fraction</td>
<td>Rare-earth magnet</td>
<td>61 cm 17670/9 17677/8</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>81 cm 17671/6</td>
<td>100 cm 17672/3</td>
<td>122 cm 17673/0</td>
<td>183 cm (without transport case)** 17706/5 17707/2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Both digital displays illuminated at the push of a button: Ideal for working in twilight and when shadowed by the body.

*The “10 years” guarantee applies to the guaranteed characteristics of the level, it does not apply to the electronic module that is integrated in the product.
**Continuous bridge over the horizontal vial increases the stability of the profile.

Type 196-2-M electronic IP 65: Rare-earth magnets with additionally strong adhesive force. You always have your hands free in aligning and adjusting metal objects.
Short portrait: Series 80 A

- The ribbed aluminium rectangular profile provides for secure grip.
- Measuring accuracy in normal position 0.5 mm/m and in reverse position 0.75 mm/m.
- A milled measuring surface of up to 120 cm.
- Standard end caps.
- 10 years warranty.

Series 80 A

<table>
<thead>
<tr>
<th>Type</th>
<th>Accuracy in normal position</th>
<th>Accuracy in reverse position</th>
<th>Measuring surfaces</th>
<th>Vial type</th>
<th>End caps</th>
<th>Special feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>80 A</td>
<td>0.029° = 0.5 mm/m</td>
<td>0.029° = 0.5 mm/m</td>
<td>1 x horizontal</td>
<td>1 x vertical</td>
<td>Standard</td>
<td></td>
</tr>
<tr>
<td>80 AM</td>
<td>0.043° = 0.75 mm/m</td>
<td>0.043° = 0.75 mm/m</td>
<td>1 x horizontal</td>
<td>1 x vertical</td>
<td>Standard</td>
<td>Rare-earth magnet</td>
</tr>
<tr>
<td>80 A-2</td>
<td>0.029° = 0.5 mm/m</td>
<td>0.029° = 0.5 mm/m</td>
<td>1 x horizontal</td>
<td>1 x vertical</td>
<td>Standard</td>
<td></td>
</tr>
</tbody>
</table>

Length / Art. No.

- 30 cm: 16047/0
- 40 cm: 16048/7
- 50 cm: 16049/4
- 60 cm: 16050/0
- 80 cm: 16051/7
- 90 cm: 16052/4
- 100 cm: 16053/1
- 120 cm: 16054/8
- 150 cm: 16055/5
- 180 cm: 16056/2
- 200 cm: 16057/9

Type 80 AM: Rare-earth magnets with additionally strong adhesive force. You always have your hands free in aligning and adjusting metal objects.

Type 80 A-2: The additional vertical vial allows quick readings in any position.
### Short portrait: Series 70

- Smooth aluminium rectangular profile.
- Ideal light spirit level.
- Easy to clean.
- Measuring accuracy in normal position 0.5 mm/m.
- One coated measuring surface.
- Standard end caps.
- 10 years warranty.

### Series 70

<table>
<thead>
<tr>
<th>Type</th>
<th>Accuracy in normal position</th>
<th>Measuring surfaces</th>
<th>Vial type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.029° = 0.5 mm/m</td>
<td>1 x horizontal 1 x vertical</td>
<td>Standard</td>
</tr>
<tr>
<td>70 W</td>
<td>0.029° = 0.5 mm/m</td>
<td>x horizontal x vertical x rotatable angle vial</td>
<td>Standard</td>
</tr>
<tr>
<td>70 M</td>
<td>0.029° = 0.5 mm/m</td>
<td>x horizontal x vertical</td>
<td>Standard</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Length</th>
<th>Art. No.</th>
<th>End caps</th>
<th>Special feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 cm</td>
<td>02281/5</td>
<td>Standard</td>
<td></td>
</tr>
<tr>
<td>40 cm</td>
<td>02282/2</td>
<td>Standard</td>
<td></td>
</tr>
<tr>
<td>50 cm</td>
<td>02283/9</td>
<td>Standard</td>
<td></td>
</tr>
<tr>
<td>60 cm</td>
<td>02284/6</td>
<td>Standard</td>
<td></td>
</tr>
<tr>
<td>80 cm</td>
<td>02286/0</td>
<td>Standard</td>
<td></td>
</tr>
<tr>
<td>100 cm</td>
<td>02288/4</td>
<td>Standard</td>
<td></td>
</tr>
<tr>
<td>120 cm</td>
<td>02289/1</td>
<td>Standard</td>
<td></td>
</tr>
<tr>
<td>150 cm</td>
<td>02290/7</td>
<td>Rare-earth magnet</td>
<td></td>
</tr>
<tr>
<td>180 cm</td>
<td>02291/4</td>
<td>Rare-earth magnet</td>
<td></td>
</tr>
<tr>
<td>200 cm</td>
<td>02292/1</td>
<td>Rare-earth magnet</td>
<td></td>
</tr>
</tbody>
</table>

**Type 70 W:** Rotatable angle vial to determine variable inclinations.

**Type 70 M:** Rare-earth magnets with additionally strong adhesive force. You always have your hands free in aligning and adjusting metal objects.
Series 106 T

Type 106 T:
The spacers are placed on the plates of the upper measuring area. Turn once – firmly in place.

Type 106 T:
Spacers to even out irregularities.

Short portrait: Series 106 T

- 3-chamber aluminium rectangular profile with reinforcing ribs. Patented construction form.
- Extremely long, extendible spirit level.
- Strong eccentric clamps ensure a high level of measuring accuracy (see table).
- Alternatively equipped with slip-on spacers for working in wood construction or with rare-earth magnets for working in steel construction.
- Two measuring surfaces.
- 10 years warranty.

<table>
<thead>
<tr>
<th>Type</th>
<th>Accuracy in normal position</th>
<th>Accuracy in reverse position (closed)</th>
<th>Measuring surfaces</th>
<th>Vial type</th>
<th>End caps</th>
<th>Special feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>106 T</td>
<td>0.029° = 0.5 mm/m</td>
<td>0.029° = 0.5 mm/m</td>
<td>2 x horizontal</td>
<td>Standard</td>
<td>Standard</td>
<td>Rare-earth magnet</td>
</tr>
<tr>
<td>106 TM</td>
<td>0.029° = 0.5 mm/m</td>
<td>0.029° = 0.5 mm/m</td>
<td>2 x horizontal</td>
<td>Standard</td>
<td>Standard</td>
<td>Rare-earth magnet</td>
</tr>
</tbody>
</table>

Length / Art. No.

| 183 – 315 cm | 17708/9 |
| 186 – 316 cm | 17710/2 |
| 213 – 376 cm | 17709/6 |
| 216 – 379 cm | 17711/9 |

Type 106 T: Spacers to even out irregularities.

Type 106 TM: Rare-earth magnets with additionally strong adhesive force. You always have your hands free in aligning and adjusting metal objects.

Type 106 TM: The spacers are placed on the plates of the upper measuring area. Turn once – firmly in place.
STABILA spirit levels
Type 80 T
Accuracy in normal position
0.029° = 0.5 mm/m
0.057° = 1.0 mm/m
Accuracy in reverse position
0.043° = 0.75 mm/m
0.057° = 1.0 mm/m
Measuring surfaces
1 x Vial type
1 x horizontal
1 x vertical
End caps
Removable / Anti-slip stopper / Shock absorbers
Special features
Telescopic system, LOCK system and printed metric scale
Length / Art. No.
65 – 105 cm
80 – 127 cm

Always the right length for the job.
High-quality telescopic system for extending the measuring surface — the spirit level can be flexibly set to the length needed.
Takes the place of up to 3 separate lengths — no need to carry around several spirit levels any more.
One coated measuring surface.
Plastic end caps protect the profile against impact.
10 years warranty.

Printed metric scale to work out internal dimensions and clearances.
Marking and cutting edge along entire length — measure and mark simultaneously, even when extended.
Built-in anti-slip stopper ensures firm grip when marking.
High-quality extension mechanism ensures high measurement accuracy.
LOCK system to fix the set length.
One coated measuring surface.
Plastic end caps protect the profile against impact.
10 years warranty.
NEW

STABILA spirit levels
Type 80 T
Accuracy in normal position
0.029° = 0.5 mm/m
0.057° = 1.0 mm/m
Accuracy in reverse position
0.043° = 0.75 mm/m
0.057° = 1.0 mm/m
Measuring surfaces
1 x Vial type
1 x horizontal
1 x vertical
End caps
Removable / Anti-slip stopper / Shock absorbers
Special features
Telescopic system, LOCK system and printed metric scale
Length / Art. No.
65 – 105 cm
80 – 127 cm

Always the right length for the job.
High-quality telescopic system for extending the measuring surface — the spirit level can be flexibly set to the length needed.
Takes the place of up to 3 separate lengths — no need to carry around several spirit levels any more.
One coated measuring surface.
Plastic end caps protect the profile against impact.
10 years warranty.

Printed metric scale to work out internal dimensions and clearances.
Marking and cutting edge along entire length — measure and mark simultaneously, even when extended.
Built-in anti-slip stopper ensures firm grip when marking.
High-quality extension mechanism ensures high measurement accuracy.
LOCK system to fix the set length.
One coated measuring surface.
Plastic end caps protect the profile against impact.
10 years warranty.
NEW

STABILA spirit levels
Type 80 T
Accuracy in normal position
0.029° = 0.5 mm/m
0.057° = 1.0 mm/m
Accuracy in reverse position
0.043° = 0.75 mm/m
0.057° = 1.0 mm/m
Measuring surfaces
1 x Vial type
1 x horizontal
1 x vertical
End caps
Removable / Anti-slip stopper / Shock absorbers
Special features
Telescopic system, LOCK system and printed metric scale
Length / Art. No.
65 – 105 cm
80 – 127 cm

Always the right length for the job.
High-quality telescopic system for extending the measuring surface — the spirit level can be flexibly set to the length needed.
Takes the place of up to 3 separate lengths — no need to carry around several spirit levels any more.
One coated measuring surface.
Plastic end caps protect the profile against impact.
10 years warranty.

Printed metric scale to work out internal dimensions and clearances.
Marking and cutting edge along entire length — measure and mark simultaneously, even when extended.
Built-in anti-slip stopper ensures firm grip when marking.
High-quality extension mechanism ensures high measurement accuracy.
LOCK system to fix the set length.
One coated measuring surface.
Plastic end caps protect the profile against impact.
10 years warranty.
NEW

STABILA spirit levels
Short portrait: Type 80 M Installation

- Aluminium rectangular profile with installation dimensions marked for quick transfer of installation points.
- Measuring accuracy in normal position 0.5 mm/m and in reverse position 0.75 mm/m.
- Patented anti-slip stops make for a firm seat when marking.
- Extra strong rare-earth magnets enable free-hand working when aligning GIS modules.
- One coated measuring surface.
- 10 years warranty.

Type 80 M Installation

<table>
<thead>
<tr>
<th>Type</th>
<th>Accuracy in normal position</th>
<th>Accuracy in reverse position</th>
<th>Measuring surfaces</th>
<th>Vial type</th>
<th>End caps</th>
<th>Special feature</th>
<th>Length / Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>80 M Installation</td>
<td>0.029° = 0.5 mm/m</td>
<td>0.043° = 0.75 mm/m</td>
<td>1 x Vial type</td>
<td>Anti-slip stopper</td>
<td>Rare-earth magnet</td>
<td></td>
<td>60 cm 16881/0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1 x horizontal</td>
<td></td>
<td></td>
<td></td>
<td>100 cm 16882/7</td>
</tr>
</tbody>
</table>

All common installation measurements are printed on the profile: aligning, marking, drilling.

Only spirit levels, whose vials are suitable for the reverse position, display reliable measurements in this position.
Short portrait: Type 70 electric

- Smooth aluminium rectangular profile.
- Measuring and marking of switches and sockets in one operation.
- Marking aids with standard distances. The distance and combination of drill holes as required by DIN 49075.
- Measuring accuracy in normal position 0.5 mm/m.
- Patented anti-slip stoppers make for a firm seat when marking.
- One coated measuring surface.
- 10 years warranty.

Type 70 electric

<table>
<thead>
<tr>
<th>Type</th>
<th>Accuracy in normal position</th>
<th>Measuring surfaces</th>
<th>End caps</th>
<th>Special feature</th>
<th>Length / Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>70 electric</td>
<td>0.029° = 0.5 mm/m</td>
<td>1 x horizontal, 1 x vertical</td>
<td>Anti-slip stopper</td>
<td>Marking holes</td>
<td>43 cm 16135/4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>120 cm 16136/1</td>
</tr>
</tbody>
</table>

Smooth aluminium rectangular profile.
Measuring and marking of switches and sockets in one operation.
Marking aids with standard distances. The distance and combination of drill holes as required by DIN 49075.
Measuring accuracy in normal position 0.5 mm/m.
Patented anti-slip stoppers make for a firm seat when marking.
One coated measuring surface.
10 years warranty.

Warning: May not comply with the country-specific installation standards.
### Series Pocket

<table>
<thead>
<tr>
<th>Type</th>
<th>Pocket Basic</th>
<th>Pocket Electric</th>
<th>Pocket Magnetic</th>
<th>Pocket PRO Magnetic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accuracy in normal position</td>
<td>0.057° = 1.0 mm/m</td>
<td>0.057° = 1.0 mm/m</td>
<td>0.057° = 1.0 mm/m</td>
<td>0.057° = 1.0 mm/m</td>
</tr>
<tr>
<td>Vial type</td>
<td>1 x horizontal</td>
<td>1 x horizontal</td>
<td>1 x horizontal</td>
<td>1 x horizontal</td>
</tr>
<tr>
<td>Measuring surfaces</td>
<td>1 x</td>
<td>1 x</td>
<td>1 x</td>
<td>2 x with V nut</td>
</tr>
<tr>
<td>Special feature</td>
<td></td>
<td></td>
<td>Rare-earth magnet</td>
<td>Rare-earth magnet</td>
</tr>
<tr>
<td>Length / Width / Height / Art. No.</td>
<td>7 cm / 2 cm / 4 cm</td>
<td>7 cm / 2 cm / 4 cm (with belt clip)</td>
<td>7 cm / 2 cm / 4 cm</td>
<td>7 cm / 2 cm / 4 cm</td>
</tr>
<tr>
<td></td>
<td>17773/7</td>
<td>18114/7</td>
<td>17774/4</td>
<td>17953/3</td>
</tr>
<tr>
<td>Pocket Electric</td>
<td></td>
<td></td>
<td></td>
<td>18115/4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>18116/1</td>
</tr>
<tr>
<td>Pocket PRO Magnetic</td>
<td></td>
<td></td>
<td></td>
<td>17775/4</td>
</tr>
</tbody>
</table>

**Pocket Electric**

*Clever: the channel for the screw-driver.*

The switch etc. can therefore be quickly and easily adjusted while the spirit level is still in position. The additional base measuring surface makes the Pocket Electric a useful and constant companion not only for electricians.

**Pocket PRO Magnetic**

*STABILA tip for vertical measurements:*

The photo shows the new Pocket PRO Magnetic with a V groove. Thanks to its rectangular aluminium frame and its magnet, the horizontal vial can also be used for vertical measurements.
STABILA spirit levels

Short portrait:
Series 81 S

- Strong aluminium die-cast profile.
- The trapezoid form makes it easier to grip.
- Measuring accuracy in normal position 0.5 mm/m and in reverse position 0.75 mm/m.
- Milled measuring surface.
- 10 years warranty.

Series 81 S

<table>
<thead>
<tr>
<th>Type</th>
<th>Accuracy in normal position</th>
<th>Accuracy in reverse position</th>
<th>Measuring surfaces</th>
<th>Vial type</th>
<th>Special feature</th>
<th>Length / Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>81 S</td>
<td>0.029° = 0.5 mm/m</td>
<td>0.043° = 0.75 mm/m</td>
<td>1 x with V nut</td>
<td>1 x horizontal, 1 x vertical</td>
<td>25 cm / 02500/7</td>
<td></td>
</tr>
<tr>
<td>81 S REM</td>
<td>0.029° = 0.5 mm/m</td>
<td>0.043° = 0.75 mm/m</td>
<td>1 x horizontal, 1 x vertical</td>
<td>Rare-earth magnet</td>
<td>25 cm (with belt pouch) / 02501/4</td>
<td></td>
</tr>
<tr>
<td>81 SV REM W45</td>
<td>0.029° = 0.5 mm/m</td>
<td>0.043° = 0.75 mm/m</td>
<td>1 x horizontal, 1 x vertical</td>
<td>Rare-earth magnet</td>
<td>40 cm / 02502/1</td>
<td></td>
</tr>
<tr>
<td>81 SV REM W45</td>
<td>0.029° = 0.5 mm/m</td>
<td>0.043° = 0.75 mm/m</td>
<td>1 x horizontal, 1 x vertical</td>
<td>Rare-earth magnet</td>
<td>50 cm / 02503/8</td>
<td></td>
</tr>
<tr>
<td>81 SV REM W45</td>
<td>0.029° = 0.5 mm/m</td>
<td>0.043° = 0.75 mm/m</td>
<td>1 x horizontal, 1 x vertical</td>
<td>Rare-earth magnet</td>
<td>60 cm / 02504/5</td>
<td></td>
</tr>
<tr>
<td>81 SV REM W45</td>
<td>0.029° = 0.5 mm/m</td>
<td>0.043° = 0.75 mm/m</td>
<td>1 x horizontal, 1 x vertical</td>
<td>Rare-earth magnet</td>
<td>80 cm / 02505/2</td>
<td></td>
</tr>
<tr>
<td>81 SV REM W45</td>
<td>0.029° = 0.5 mm/m</td>
<td>0.043° = 0.75 mm/m</td>
<td>1 x horizontal, 1 x vertical</td>
<td>Rare-earth magnet</td>
<td>100 cm / 02506/3</td>
<td></td>
</tr>
</tbody>
</table>

Type 81 S REM: Rare-earth magnets with additionally strong adhesive force. You always have your hands free in aligning and adjusting metal objects.

Type 81 SV REM W45: Extra-strong adhesion to pipes and other steel items thanks to the milled measuring surface with a V nut and rare-earth magnets.

Type 81 SV REM W45: Fixed 45° angle vial for direct testing of struts and 45° piping.

Type 81 S REM: Six-ring vial for 1% and 2% gradients.
STABILA standards – the measure of many things since 1889

At the end of the 19th century, Anton Ulrich and his brother Franz were awarded a patent for a spring-loaded joint for folding rules and with it they laid the foundation stone for the success story of the STABILA company. Still today, STABILA standards stand in many respects for measuring in best craftsman’s quality.

**Material and coating:** For the starting material for folding rules, optimum breaking resistance and elasticity are decisive. The coating has to defy all adversities in use.

**Printing:** The measuring scale, as the most important component, has to have a clear printed image and a clear difference between the ones and ten digits.

**Joints:** STABILA mainly uses joints from hardened spring steel which ensures precise engagement and long-term spring action. The special design makes the joint smooth and durable.

All STABILA rules meet the new MID directive applicable for the whole of Europe. With the CE and Metrology marking and EC-type examination certificate.
Springs are built in under the highly durable jointing plate. The rivets are concealed. The sections are 3.3 mm thick and extremely weatherproof and wear-resistant. The ends are painted red. The black graduation scale with red tens is clearly and regularly printed. With the CE and metrology marks plus the EU type approval certification. Accuracy class III.

<table>
<thead>
<tr>
<th>Type</th>
<th>Length</th>
<th>Width</th>
<th>Sections</th>
<th>Colour</th>
<th>Gradation</th>
<th>Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>607</td>
<td>2 m</td>
<td>16 mm</td>
<td>10</td>
<td>White/Yellow</td>
<td>cm/mm</td>
<td>01128/2</td>
</tr>
<tr>
<td>607/11</td>
<td>3 m</td>
<td>16 mm</td>
<td>15</td>
<td>White</td>
<td>cm/mm</td>
<td>01231/1</td>
</tr>
<tr>
<td>607</td>
<td>2 m</td>
<td>16 mm</td>
<td>10</td>
<td>Light yellow</td>
<td>cm/mm</td>
<td>01104/8</td>
</tr>
<tr>
<td>607</td>
<td>2 m</td>
<td>16 mm</td>
<td>10</td>
<td>White</td>
<td>cm/mm</td>
<td>01134/5</td>
</tr>
</tbody>
</table>

The extremely durable joints with steel spring rollers can also be set at a right angle. The double millimetre scale is deeply impregnated. The tens are highlighted in red. When folded out the rule provides a continuous straight edge so it can also be used as a ruler for marking out. With the CE and metrology marks plus the EU type approval certification. Accuracy class III.

<table>
<thead>
<tr>
<th>Type</th>
<th>Length</th>
<th>Width</th>
<th>Sections</th>
<th>Colour</th>
<th>Gradation</th>
<th>Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>902</td>
<td>2 m</td>
<td>16 mm</td>
<td>10</td>
<td>Yellow</td>
<td>cm/mm</td>
<td>01604/3</td>
</tr>
<tr>
<td>907</td>
<td>2 m</td>
<td>16 mm</td>
<td>10</td>
<td>White</td>
<td>cm/mm</td>
<td>01634/0</td>
</tr>
<tr>
<td>907</td>
<td>2 m</td>
<td>16 mm</td>
<td>10</td>
<td>White</td>
<td>cm/mm</td>
<td>01635/5</td>
</tr>
</tbody>
</table>

The approx. 3.3 mm thick beech sections are connected by sprung jointing plates. The ends are painted red. The black graduation scale with red tens is clearly and evenly printed. A particularly economical STABILA rule. With the CE and metrology marks plus the EU type approval certification. Accuracy class III.
The unique advantage of a measuring tape is that it can provide measurements up to 100 m long in a compact form. There are different types of measuring tapes to suit different applications and different measurement distances:

Pocket tape measures: Usable anywhere, small, light and easy to carry, on your belt or in your pocket, and ideal for measurements up to approx. 10 m.

Cased measuring tapes: For measuring distances up to 30 m.

Open-frame measuring tapes: For measuring distances up to 100 m, as commonly required in road construction and landscaping work.

Pocket tape measures
- BM 40
- BM 30
- BM 20

Cased measuring tapes
- Type architect
- Series BM 50

Open-frame measuring tapes
- Series BM 42

STABILA measuring tapes – proven, practical, durable

Tape properties
- Important for pocket measuring tapes: Resistant coating for the protection of the measuring scales against wear through particles of dirt.
- Casing and frame tape measure: Steel polyamide or glass fibre tapes. Equipment and material protect against wear and tape breakage.

Case:
- For protection and safe handling, permanently stable, secure and accessible. With good pocket measuring tapes, the grip zone is now often covered with soft rubber. And otherwise too: only high-quality well processed materials are used for STABILA measuring tapes.

The STABILA universal hook:
- Ideal for long tape measures. A special hook with a spike coating. Also with an eyelet for quick-release fixing.

The STABILA spikes hook:
- Many STABILA pocket measuring tapes have the spikes hook which prevents the tape from slipping on smooth surfaces.

All STABILA measuring tapes meet the new MID directive applicable for the whole of Europe. With the CE and Metrology marking and EC-type examination certificate.
Pocket tape measure BM 30 W

Same as the BM 30 but with a window for reading internal measurements directly.

Pocket tape measure BM 40

The identical measuring scale on both sides of the blade – easy to read in all work situations.

The measuring scale has excellent abrasion resistance thanks to its high-quality polyester coating. Red tens for easy legibility. Powerful blade retraction mechanism – dynamic blade return. The special tape return brake brings the blade to a cushioned stop. The spikes hook moves smoothly into its park position. Effective blade brake: push brake on the 3 and 5 m long tapes. rocker brake on models with 8 and 10 m long blades.

STABILA measuring tapes

Pocket tape measure BM 30

Unbreakable plastic casing. Curved, polyamide-coated yellow steel blade (with high abrasion resistance). Adjustable end hook with the STABILA spikes hook. Automatic blade return. Stopper for braking and locking the blade. Beginning of blade reinforced (from 5 m onwards). Buffer on blade inlet. Cm and mm graduation. Red tens. With the CE and metrology marks plus the EU type approval certification. Accuracy class II. Belt clip.

Pocket tape measure BM 30

Length 2 m 3 m 3 m* 5 m 8 m 3 m/10 ft 3 m/10 ft* 5 m/16 ft 8 m/27 ft
Width 13 mm 13 mm 16 mm 19 mm 25 mm 13 mm 16 mm 19 mm 25 mm
Art. No. 16449/2 16450/8 16456/0 16451/5 16452/2 16453/9 16457/7 16454/6 16455/3

* with viewing window for direct reading of internal measurements

Pocket tape measure BM 40

Length 3 m 5 m 5 m 8 m 10 m 3 m/10 ft 5 m/16 ft 8 m/27 ft 10 m/32 ft
Width 16 mm 19 mm 25 mm 25 mm 27 mm 16 mm 19 mm 25 mm 27 mm
Art. No. 17736/2 17740/9 17744/7 17745/4 17747/8 17737/9 17741/6 17746/1 17748/5

Sophisticated professional case: Shatter-proof plastic case with shock-absorbent soft grip casing – excellent impact resistance. The wide, smooth underside of the case provides the tape measure with outstanding stability. The straight rear side of the case allows free-hand working when taking vertical measurements. Perfect handling and a sure grip thanks to the ergonomically designed case, soft grip rubber coating, nonslip brake lever and secure belt clip. Complete with CE and metrology mark as well as EC type examination certificate. Accuracy class II. Belt clip.

The STABILA spikes hook: significantly improves nonslip properties. Even when measuring longer lengths, someone else is not required to hold it. The material is protected by the buffer on the blade inlet. Beginning of blade reinforced from 5 m onwards.

STABILA measuring tapes

STABILA measuring tapes
Pocket tape measure BM 20

Unbreakable plastic casing. Curved, polyamide-coated white steel blade (with high abrasion resistance). Adjustable end hook. Buffer for braking and locking the blade. Beginning of blade reinforced (from 5 m onwards). Belt clip. Accuracy class II.}

Cased measuring tape architect’s Type

White-painted steel blade, cm and mm graduation, red tens. Extremely durable polyamide casing. With the CE and metrology marks plus the EU type approval certification.
The universal hook:
- Special hook with spikes coating. Significantly improves non-slip properties.
- New eyelet for quick release fixation – makes precise measurement even faster and simpler.

The re-wind drum:
- Special re-wind drum (patent applied for).

The casing:
- Impact-resistant nylon casing.
- Can be butted against a slope in all positions.

Fibreglass measuring tapes (G), standard measurement scale for fibreglass measuring tapes: cm/– = gradation in cm one side only, first metre in mm.

Open-frame measuring tape BM 42

Polyamide-coated steel measuring tapes (P), standard measurement scale for all steel measuring tapes: mm/– = full length gradation in mm, one side only.

White-painted steel measuring tapes (W), standard measurement scale for all steel measuring tapes: mm/– = full length gradation in mm, one side only.

Cased measuring tape BM 50

Polyamide-coated steel measuring tapes (P), standard measurement scale for all steel measuring tapes: mm/– = full length gradation in mm, one side only.

White-painted steel measuring tapes (W), standard measurement scale for all steel measuring tapes: mm/– = full length gradation in mm, one side only.

Length
30 m
50 m
100 m

Width
13 mm
13 mm
13 mm

Art. No. (P)
10706/2
10711/6
10721/5

Art. No. (W)
17220/6
17221/3
17222/0

Length
20 m
30 m
50 m

Width
13 mm
13 mm
13 mm

Art. No. (P)
11154/0
11166/3
11178/6

Art. No. (W)
17217/6
17218/3
17219/0

Length
10 m
20 m
30 m

Width
13 mm
13 mm
13 mm

Art. No. (G)
17214/5
17215/2
17216/9

The impact-resistant, unbreakable polyamide frame with reinforcement ribs on the inside is very robust. The grooved turning handle facilitates holding and tensioning the tape. The broad arm in well-proven Y design provides good tape guidance. Special plastic guides prevent the steel tape from catching between the rollers and the frame and protect it from wear. Including universal STABILA hooks.
Written guarantee for STABILA spirit levels

In addition to the statutory rights to which the purchaser is entitled and which are not limited by this guarantee, STABILA guarantees the instrument against defects and the absence of the warranted characteristics resulting from material or manufacturing defects for a period of 10 years from the date of purchase. STABILA has the right to decide at its own discretion whether the defects will be rectified by being repaired or whether the instrument will be replaced. STABILA accepts no further liability. Defects caused by improper handling or modifications to the instrument undertaken by the purchaser or third parties invalidate the guarantee. No liability is accepted for normal wear and tear and minor defects which do not detract from the function of the instrument.

Please send warranty claims together with the filled in warranty certificate to STABILA Messgeräte (STABILA Measuring Instruments).