

# STABILA®



How true pro's measure

2018/2019 EN



Compact catalogue



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

**True pro's measure with STABILA.**



## Good tools – good work

Precise measurement is one of the most important fundamentals of manual work. It is therefore important that professionals are able to completely rely on the accuracy of their measuring tools. In any weather and in the harshest construction site conditions. Tough, durable and accurate tools which are easy to use. STABILA designs and produces measuring equipment of this calibre. And has done so since 1889.

**STABILA®** 

**MADE IN GERMANY**

[WWW.STABILA.COM](http://WWW.STABILA.COM)

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

### 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.



**8–9** The different laser functions

**10–11** Rotation lasers

**12–13** LAR 350

**14–15** LAPR 150

**16–17** Point and line lasers

**18–19** LA 180 L

**20–21** LAX 400

**22–23** LAX 300 G

**24–25** LAX 50 G

**26–27** FLS 90

**28–29** LA-5P

**30–33** Accessories | Levelling rods | Tripods

**34–35** Laser distance measurer

**36–37** Overview of functions

**38–39** LD 520

**40–41** LD 420 | LD 320

**42–43** LD 250 BT | LD 220

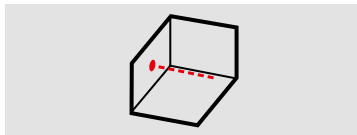
## Laser functions and spectrum of use.

Our laser levels have eight different laser functions covering all methods of measuring required on the construction site. For this reason, the use of modern laser measuring technology is very versatile.

STABILA, as an internationally recognised measuring tool specialist, builds the right instrument for all uses and for every trade.

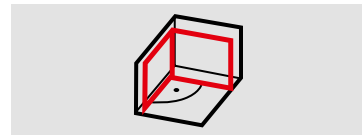
## The different laser functions.

### Point function



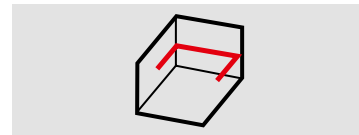
Function	Spectrum of use, e. g.
The laser beam exits horizontally and is visible on the targeted area as a point.	Alignment of prefabricated units in one line. Transfer of heights ...

### Right angle (90°)



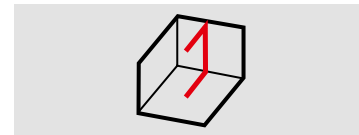
Function	Spectrum of use, e. g.
Laser beams come out at an angle of 90°.	Build partition walls. Mark layout on the floor. Markout tiles on floor ...

### Line function, horizontal



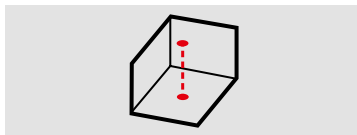
Function	Spectrum of use, e. g.
The laser projects a horizontal line onto the wall.	Tile layout on walls. Transfer of heights when placing the sockets. Alignment of wall-mounted cupboards ...

### Line function, vertical



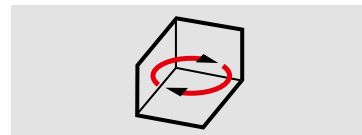
Function	Spectrum of use, e. g.
The laser projects vertical lines onto floors, walls and ceiling.	Mark and align stud walls. Installation of heating pipes. Installation of arcade roof lights ...

### Plumb-line function



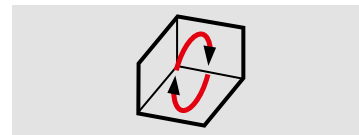
Function	Spectrum of use, e. g.
Transfers a determined point from the floor to the ceiling.	Layout lighting construction. Determine opening. Align construction elements ...

### Rotation function, horizontal



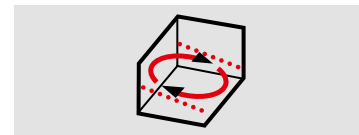
Function	Spectrum of use, e. g.
The laser beam rotates horizontally through 360° around its vertical axis.	Level the foundation when concreting, create path, pavement and garden areas. Suspend ceilings. Height compensation for ring beams ...

### Rotation function, vertical



Function	Spectrum of use, e. g.
The laser beam rotates vertically through 360° around its vertical axis.	Position prefabricated walls, level façade cladding and wooden casing. Transfer axes ...

### Inclination function



Function	Spectrum of use, e. g.
The horizontal plane is inclined to the desired position.	Create yard areas, parking places and terraces. Level garage accesses ...

### 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

#### Type

**LAR 350**  
Self-levelling rotation laser

**LAPR 150**  
Self-levelling pendulum rotation laser



Laser functions

8

7

Laser class

2

2

Output

< 1 mW

< 1 mW

Laser wavelength

635 nm

635 nm

Self-levelling area  
horizontal + vertical

approx. ± 5°

approx. ± 1°

Levelling accuracy

± 0.1 mm/m

± 0.2 mm/m (horizontal)  
± 0.3 mm/m (vertical)

Working range set receiver

Ø 800 m\*

Ø 240 m\*

Operating life

approx. 80 h

approx. 80 h

Batteries included

2 x D 1.5 V

2 x D 1.5 V

Protection class

IP 65

IP 54

#### Comprising

Laser

LAR 350

LAR 350

LAPR 150

LAPR 150

Remote control

✓

✓

–

–

Receiver

REC 300 Digital

REC 300 Digital

REC 150

REC 150

90° angle rail

✓

✓

–

–

Laser goggles

✓

✓

✓

✓

Target plate

✓

✓

✓

✓

Rigid carrying case

✓

✓

✓

✓

Construction tripod

–

BST-S

–

BST-K-M

Levelling rod

–

NL

–

NL

Art. No.

19019/4

19111/5

17658/7

18458/2

\* At 21 °C, under optimum atmospheric conditions.

**Tough, durable, accurate.**

- Fully automatic motor-driven rotation laser.
- MOTION CONTROL and LED Assist system – quick, reliable and convenient operation.
- DUAL SLOPE – inclination setting of up to 5° on two axes.
- SECTION MODE – working area which can be limited as required in rotation mode.
- STABILA PROTECTOR system – for perfect protection.
- Protection class IP 65.
- Working area with a diameter of up to 800 m.

Art. No. **19019/4** **19111/5\***

\* with construction tripod and levelling rod

## LAR 350 self-levelling rotation laser with MOTION CONTROL remote control



### Laser functions

- Point function
- Right angle (90°)
- Line function, horizontal
- Line function, vertical
- Plumb-line function
- Rotation function, horizontal
- Rotation function, vertical
- Inclination function
- DUAL SLOPE inclination function

### Recommendation for application

- Bricklayers
- Reinforced concrete specialists
- Metalworkers
- Garden designers and landscapers
- Carpenters
- Concrete and piping specialists

### MOTION CONTROL remote control

An intuitive remote control with in-built movement sensor. By turning the remote control to the right or left, the movement sensor accelerates or decelerates the chosen laser function. This enables you to intuitively control numerous functions and settings at a measuring range of up to 20 m.



**STABILA PROTECTOR system:** Extremely tough thanks to the STABILA PROTECTOR system that is patented in many countries – perfect protection, even when the laser is dropped from a height of up to 1.80 m\*. Set it up again, switch it on and continue measuring with the same precision.

\* Tested with the tripod falling onto a surface typically found at a construction site



### REC 300 Digital receiver:

For measurements over long distances. Further information on page 30.



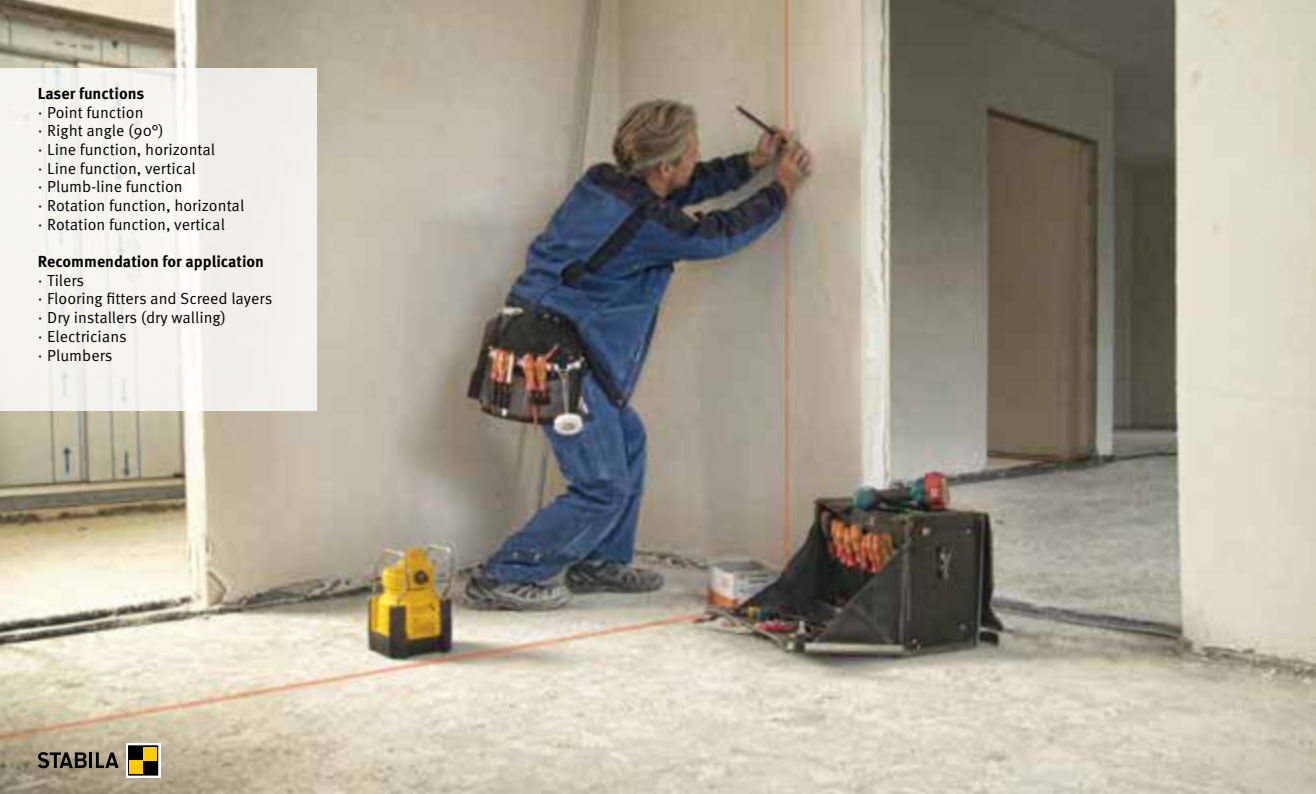


#### Laser functions

- 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  $\pm 0.2$  mm/m, measuring accuracy in vertical operation:  $\pm 0.3$  mm/m.
- Protection class IP 54 (Protection against dust deposits in the interior. Protection against spray water from any direction).

Art. No.	17658/7	18458/2*
----------	---------	----------







\* with construction tripod and levelling rod



# STABILA point and line laser: precise and quick marking and transfer.

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									
Type	LA 180 L Self-levelling multi-line laser	LAX 400 Self-levelling multi-line laser			LAX 300 G Self-levelling cross line plus plumb point laser	LAX 50 G Cross line laser	FLS 90 Floor line laser	LA-5P Self-levelling 5 point laser		
										
Laser class	2	2			2	2	2	2		
Output	< 1 mW	< 1 mW			< 1 mW	< 1 mW	< 1 mW	< 1 mW		
Laser wavelength	635 nm	635 nm			510 – 530 nm	510 – 530 nm	635 nm	635 nm		
Self-levelling range	approx. ± 5.0°	approx. ± 4.0°			approx. ± 4.5°	approx. ± 4.5°	–	approx. ± 4.5°		
Levelling accuracy	± 0.07 mm/m	± 0.3 mm/m			± 0.3 mm/m	± 0.5 mm/m	–	± 0.3 mm/m		
Line straightness	± 0.1 mm/m	± 0.2 mm/m			± 0.2 mm/m	–	–	–		
Laser beam accuracy	± 0.2 mm/m	± 0.3 mm/m			± 0.3 mm/m (up) ± 0.4 mm/m (down)	–	–	± 0.3 mm/m (up) ± 0.4 mm/m (down)		
90° angle precision	± 0.2 mm/m	± 0.3 mm/m			–	–	± 0.3 mm/m	± 0.2 mm/m		
Measuring distance	Visible line 20 m*	Visible line 20 m*			Visible line 30 m*	Visible line 30 m*	Visible line 15 m*	Visible point 30 m*		
Measuring distance set receiver	Up to 100 m**	–			–	–	–	–		
Operating life	approx. 20 h	approx. 10 h			approx. 15 h	approx. 7 h	approx. 20 h	approx. 20 h		
Batteries included	4 x D 1.5 V	4 x AA 1.5 V			3 x AA 1.5 V	3 x AA 1.5 V	3 x AA 1.5 V	3 x AA 1.5 V		
Protection class	IP 54	IP 54			IP 54	IP 53	IP 54	IP 54		
Comprising										
Laser	LA 180 L	LAX 400	LAX 400	LAX 400	LAX 300 G	LAX 50 G	FLS 90	LA-5P	LA-5P	
Receiver	REC 410 Line RF with holder	–	REC 220 Line	–	–	–	–	–	–	
Laser goggles	✓	✓	✓	✓	–	–	–	–	–	
Target plate	✓	✓	✓	✓	✓	–	✓	✓	✓	
Multi-purpose platform	–	–	–	–	–	✓	–	–	–	
Wall mounting	–	✓	✓	✓	✓	–	–	✓	✓	
Belt pouch	–	–	–	–	✓	✓	✓	✓	✓	
Rigid carrying case	✓	✓	✓	✓	–	–	–	–	–	
Laser telescopic support	–	–	–	LT 30	–	–	–	–	LT 30	
Art. No.	18044/7	18702/6	18862/7	18863/4	19033/4	19110/8	18574/9	18328/8	18483/4	

\* Indoors under typical operating conditions.

\*\* Range is up to 100 m straight ahead and 40 m at 45° to the device axis.

**Layout work – faster and more accurate than ever before.**

- Self-levelling multi-line laser for precision results – motorised controller and accuracy of  $\pm 0.07$  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.

Art. No. **18044/7**

## Self-levelling multi-line laser LA 180 L

### Laser functions

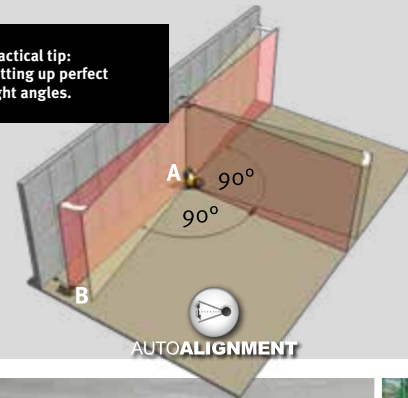
- Line function, horizontal
- Line function, vertical
- Right angle ( $90^\circ$ )
- Plumb-line function

### Recommendation for application

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



**Practical tip:**  
Setting up perfect right angles.



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.



**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.



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.

### 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).

**The professional laser for interior construction.**

- A 360° horizontal line for marking, alignment and levelling around the entire room.
- **MANUALALIGNMENT:** 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 plumb 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

**STABILA** 

## Self-levelling multi-line laser LAX 400



### Laser functions

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

### Recommendation for application

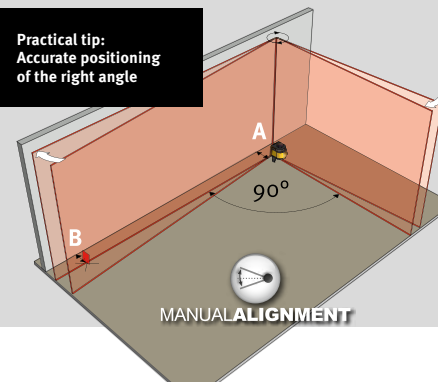
- Drywallers
- Tilers
- Electricians
- Plumbers
- Carpenters / joiners



**MANUALALIGNMENT** 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.



**Practical tip:** Accurate positioning of the right angle

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

- 1 Measure the marking points A and B parallel to the wall.
- 2 Position the laser on marking point A and the target plate on marking point B.
- 3 Roughly align the laser.
- 4 Use the knob on the housing to manually pivot the laser to the marking point, creating 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.**



Optimum visibility, razor-sharp laser lines and a large working area.

- Self-levelling line laser with plumb-line dots
- Work quickly and directly on the fine laser lines using STABILA GREENBEAM technology – with optimum visibility up to 30 m.
- The vertical line almost covers the entire room.
- Compact housing with extendable foot for height adjustment for working directly on U-profiles.
- Versatile use: can be used on the floor, on a tripod (1/4" thread), with rare-earth magnets on metallic objects or on the wall bracket.
- Shock-absorbent STABILA soft grip casing.
- The laser can be pivoted 360° inside the housing.
- Protection of the optics against dust and scratches in park position.
- Protection class IP 54.
- Belt pouch.

Art. No. 19033/4

## LAX 300 G self-levelling cross line plus plumb point laser



### Laser functions

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

### Recommendation for application

- Drywallers
- Electricians
- Tilers
- Window fitters
- Carpenters / joiners



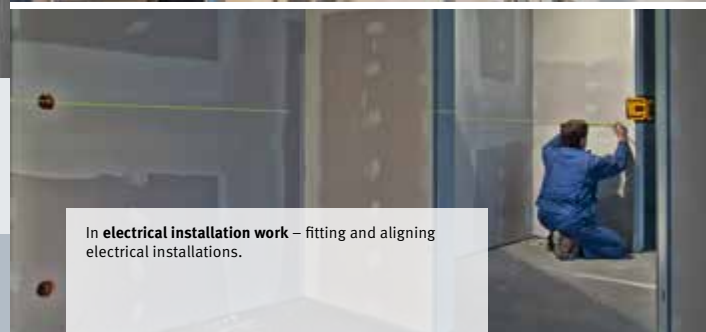
**NEW**



- 1) Park position.
- 2) The laser can be swivelled 360° within its housing.
- 3) The extendable foot can be used to adjust the laser's height.



In **drywall construction** – suspending ceilings, positioning interior and partition walls, fitting U-profiles and transferring layouts from the floor to the ceiling.



In **electrical installation work** – fitting and aligning electrical installations.



**Simple. Better. Visible.** The cost-efficient all-rounder with bright green laser lines.

- Self-levelling cross line laser with exceptionally bright, fine, green laser lines – with perfect visibility at distances of up to 30 m thanks to STABILA **GREENBEAM** technology.
- Extremely versatile for working quickly and directly on long laser lines – 1 horizontal line, 1 vertical line.
- The latest generation of energy-saving laser diodes with an operating time of up to 7 hours.
- Quick self-levelling function thanks to pendulum technology designed for the construction site.
- Rotating multi-purpose platform for flexible positioning of the laser
- Strong rare-earth magnet system for securely attaching the platform
- Hanging hole for wall attachments.
- Protection class IP 53: protection against dust deposits inside and against spray (up to 60° on the vertical plane).

Art. No. **19110/8**



# LAX 50 G cross line laser



### Laser functions

- Line function, horizontal
- Line function, vertical

### Recommendation for application

- Carpenters / joiners
- Electricians
- Tilers
- Plumbers
- Painters

### Wide range of attachment options

**Integrated clamping device:** for pipe attachments (maximum diameter: 30 mm).



**With 1/4" tripod connection thread:** rotating multi-purpose platform for flexible positioning of the laser.



**Green  
BEAM**



## 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.

### 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.

Art. No. **18574/9**

## Floor line laser FLS 90

### Laser functions

- Right angle (90°)

### Recommendation for application

- Tilers
- Flooring fitters
- Drywallers



### The innovative dual purpose base

#### On flat surfaces:

Positioning claws upwards. The laser can be used for any layout work.



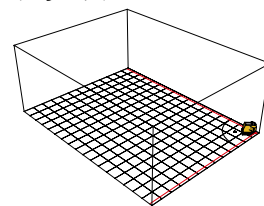
#### On tiles:

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



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 ( $\pm 0.3 \text{ mm/m}$ ).



Pulsed laser lines for working over long distances: up to 100 m (measuring distance) with REC 220 Line receiver.



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.





## 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.

Art. No. **18328/8** **18483/4\***

\* with laser telescopic support

## Self-levelling 5 point laser LA-5P

### Laser functions

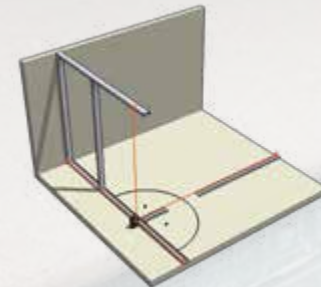
- Point function
- Right angle (90°)
- Plumb-line function

### Recommendation for application

- Dry installers (dry walling)
- Metalworkers
- Foremen
- Fitters



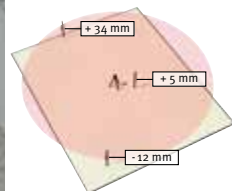
- 1) Park position. 2) The laser can be swivelled 360° within its housing.  
3) The extendable foot can be used to adjust the laser's height.



Work directly on u-profile channels thanks to the height extendable foot.

# Laser accessories

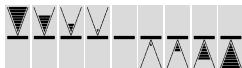
## Receiver



### 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.



#### 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.



Art. No. 16957/2

STABILA



### 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. 18643/2

### REC 150 receiver

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



Art. No. 18642/5

## Levelling rod

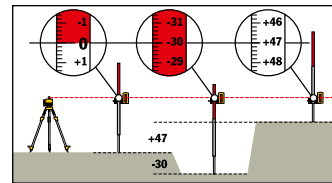
NL anodised aluminium levelling rod. For all STABILA laser receivers and receiving units. Extendable up to 240 cm; scale in “mm” gradations;  $\pm 50$  cm gradations. With adjustment slide for optimal display clarity and trouble-free height definition.

Art. No. 07468/5



A rotation laser, receiver, remote control and levelling rod are an unbeatable team. With it, one person can level quickly and safely over large distances. The work is particularly easy when you use the STABILA NL levelling rod:

1. Align the rod's zero mark to the laser beam.
2. Move the receiver on the levelling rod to bring it back in line with the laser beam's height at the new measurement point.
3. The height difference plus or minus can now be read from the NL's scale.

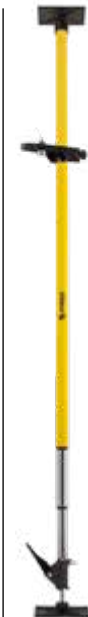


## Laser telescopic support

### 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



# Tripods

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: 4.8 kg

Art. No. 18456/8



## 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. 6.0 kg

Art. No. 18195/6



## 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

Art. No. 18194/9



## 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

Art. No. 18560/2



## 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.

Art. No. 15971/9



# 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.

Overview of laser distance measurers					
Type	LD 520 Laser distance measurer	LD 420 Laser distance measurer	LD 320 Laser distance measurer	LD 250 BT Laser distance measurer	LD 220 Laser distance measurer
					
Laser class	2	2	2	2	2
Output	< 1 mW	< 1 mW	< 1 mW	< 1 mW	< 1 mW
Laser wavelength	635 nm	635 nm	635 nm	635 nm	635 nm
Accuracy*	± 1.0 mm	± 1.0 mm	± 1.5 mm	± 2.0 mm	± 3.0 mm
Measuring distance*	0.05 – 200 m	0.05 – 100 m	0.05 – 60 m	0.2 – 50 m	0.2 – 30 m
Operating life	Up to 5,000 measurements	Up to 5,000 measurements	Up to 5,000 measurements	Up to 5,000 measurements	Up to 5,000 measurements
Batteries included	2 x AA	2 x AAA	2 x AAA	2 x AAA	2 x AAA
Bluetooth	Bluetooth® Smart (4.0)	–	–	Bluetooth® Smart (4.0)	–
Inclination sensor	± 180°	–	–	–	–
Digital target locator	✓	–	–	–	–
Functions	18 functions	12 functions	8 functions	4 functions	4 functions
Protection class	IP 54	IP 65	IP 40	IP 54	IP 54
<b>Comprising</b>					
Laser	LD 520	LD 420	LD 320	LD 250 BT	LD 220
Batteries	✓	✓	✓	✓	✓
Belt pouch	✓	✓	✓	–	–
Wrist strap	✓	✓	✓	–	–
Art. No.	<b>18562/6</b>	<b>18378/3</b>	<b>18379/0</b>	<b>18817/7</b>	<b>18816/0</b>

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

# Laser distance measurers: Overview of functions.

1) Length measurement.

2) Area measurement.

3) Volume measurement.

4) Continuous measurement.

5) Chain measurements.

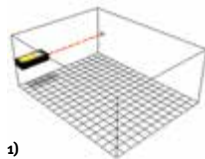
6) Pythagoras function 1:  
Determines a distance using two related measurements.

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.

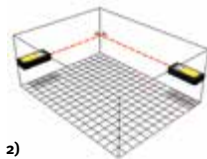
9) Maximum tracking: Continuous measurement to determine e. g. the maximum diagonal measurement.

10) Timer: Self-timer function, e. g. for shake-free measurement from a tripod.



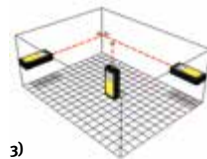
1)

LD	220	250	320	420	520
----	-----	-----	-----	-----	-----



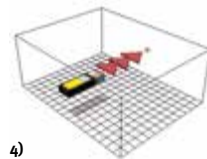
2)

LD	220	250	320	420	520
----	-----	-----	-----	-----	-----



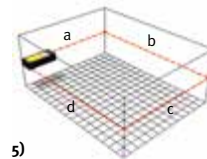
3)

LD	220	250	320	420	520
----	-----	-----	-----	-----	-----



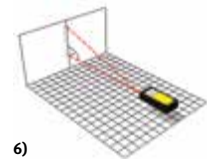
4)

LD	220	250	320	420	520
----	-----	-----	-----	-----	-----



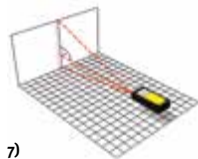
5)

LD	-	-	-	420	520
----	---	---	---	-----	-----



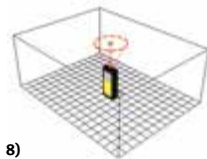
6)

LD	-	-	320	420	520
----	---	---	-----	-----	-----



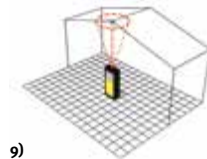
7)

LD	-	-	320	420	520
----	---	---	-----	-----	-----



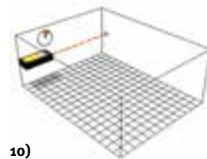
8)

LD	-	-	320	420	520
----	---	---	-----	-----	-----



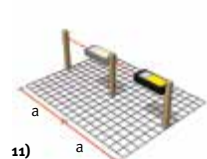
9)

LD	-	-	320	420	520
----	---	---	-----	-----	-----



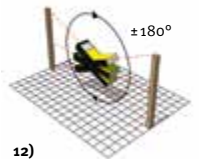
10)

LD	-	-	-	420	520
----	---	---	---	-----	-----



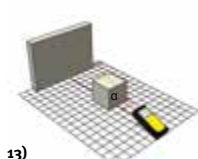
11)

LD	-	-	-	420	520
----	---	---	---	-----	-----



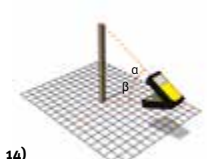
12)

LD	-	-	-	-	520
----	---	---	---	---	-----



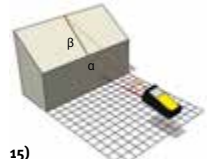
13)

LD	-	-	-	-	520
----	---	---	---	---	-----



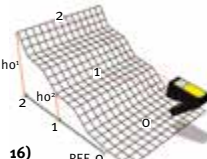
14)

LD	-	-	-	-	520
----	---	---	---	---	-----



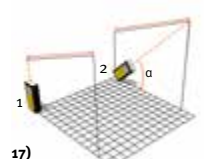
15)

LD	-	-	-	-	520
----	---	---	---	---	-----



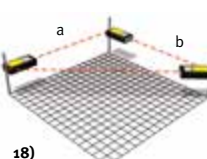
16)

LD	-	-	-	-	520
----	---	---	---	---	-----



17)

LD	-	-	-	420	520
----	---	---	---	-----	-----



18)

LD	-	-	-	-	520
----	---	---	---	---	-----

11) Stake out distances.

12) Inclination measurement:  
The inclination sensor measures inclinations in the range  $\pm 180^\circ$ .

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.

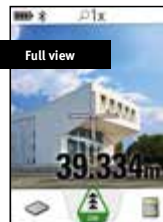


## Digital Target Locator. The smart way to measure.

- 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  $\pm 180^\circ$ ).
- 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  $\pm 1.0$  mm.
- IP 54 protection class against rain / dust.
- Robust, impact-resistant housing with shock-absorbing soft grip casing.

Art. No. **18562/6**

## Laser distance measurer LD 520



Full view



2x zoom



4x zoom

### 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.

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



### STABILA Measures measurement app

For many professionals, smartphones and tablets have become indispensable everyday tools. The STABILA Measures app saves you precious time when taking measurements and preparing quotations.



The app features an intuitive user interface and a wide range of functions. Wirelessly transfer measurements from your laser to your mobile device – in sketches, blueprints or photos. This enables you to document everything straight away on site and communicate it to your team via your smartphone. The mobile app is compatible with laser distance measurers with Bluetooth® Smart 4.0 technology.



### 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  $\pm 1.0$  mm.
- Range: type 0.05 – 100 m.

Art. No. **18378/3**



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

**STABILA** 

## Laser distance measurer LD 420



Belt pouch for easy carrying.

**IP 65**



## Laser distance measurer LD 320



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  $\pm 1.5$  mm.
- Range: type 0.05 – 60 m.

Art. No. **18379/0**



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

**STABILA laser measuring instruments 40 – 41**

## 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.

Art. No. **18817/7**



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

**STABILA** 

## Laser distance measurer LD 250 BT



## Laser distance measurer LD 220



## 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. **18816/0**



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

## Why choose electronic measuring tools?

**Electronic measuring technology helps craftsmen to work more quickly and more effectively.**

Measurement data can be read directly and precisely. Complicated arithmetic problems can be solved easily, e.g. when determining slopes. The measurement data is shown using a digital display. As well as optical displays, there are also products with acoustic guidance which enable alignment with a desired value.



**44-45** Electronic measuring tools  
**46-47** Series TECH 196 / 196 M  
**48-49** TECH 700 DA





## Short portrait: Series TECH 196 / 196 M

- 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 TECH 196 / 196 M

### Type

Accuracy in normal position
Accuracy in reverse position
Accuracy with electronic inclination measurement
Measuring surfaces
Vial type

### End caps

### Display modes

### Special feature

### Length / Art. No.

40 cm
61 cm
81 cm
100 cm
122 cm
183 cm (without transport case)**

### TECH 196 electronic IP 65

0.029° = 0.5 mm/m
0.029° = 0.5 mm/m
at 0° and 90° = ± 0.05°, from 1° to 89° = ± 0.2°
2 x
1 x horizontal 2 x vertical
Removeable / Anti-slip stopper / Shock absorbers
°, %, mm/m, in/ft – decimal and as fraction
–

17705/8
17670/9
17671/6
17672/3
17673/0
17706/5

### TECH 196 M electronic IP 65

0.029° = 0.5 mm/m
0.029° = 0.5 mm/m
at 0° and 90° = ± 0.05°, from 1° to 89° = ± 0.2°
2 x
1 x horizontal 2 x vertical
Removeable / Anti-slip stopper / Shock absorbers
°, %, mm/m, in/ft – decimal and as fraction
Rare-earth magnet

–
17677/8
–
–
–
17707/2



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



IP 65

Completely washable. Dust and water-proof in accordance with IP 65.



**TECH 196 M electronic IP 65:**  
Rare-earth magnets with additionally strong adhesive force. You always have your hands free in aligning and adjusting metal objects.

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





## Short portrait: TECH 700 DA

- Quickly determine and transfer angles in the range from  $0^\circ$  –  $270^\circ$ .
- Digital display with lighting that can be activated.
- LOCK function: locking mechanism for transferring angles reliably.
- Two wide contact edges for accurate and reliable marking.
- REF function: quickly measure a complementary angle.
- HOLD function: saves the measured value.
- Displays the angle bisectors at the touch of a button.
- Precise measuring results with an accuracy of  $\pm 0.1^\circ$ .
- Protection class IP 54.
- Includes bag.
- Equipment: 1 digital display, 1 horizontal vial, 1 vertical vial, 2 coated measuring surfaces.

## TECH 700 DA

### Type

Accuracy in normal position
Accuracy in reverse position
Accuracy with electronic angle measurement
Measuring distance
Measuring surfaces
Vial type
End caps
Display mode

### Length / Art. No.

45 cm
80 cm

### TECH 700 DA

$0.029^\circ = 0.5 \text{ mm/m}$
$0.043^\circ = 0.75 \text{ mm/m}$
$\pm 0.1^\circ$
from $0^\circ$ to $270^\circ$
1 x
1 x horizontal 1 x vertical
Standard
$^\circ$

18903/7

19018/7

**NEW**  
02/2018



**TECH 700 DA:** Especially suitable for joinery – measure and transfer angles, e.g. when installing a kitchen or when aligning other built-in furniture. The ideal helper when laying elaborate tile motifs – transfer angles when cutting the tiles. The perfect partner in wood construction – mark out angles in preparation for mitre cuts.



## 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.



**52–53** How do you recognise a good spirit level?

#### Spirit levels

- 54–55** Type R 300
- 56–57** Series 196
- 58–59** Series 96
- 60–61** Series 80 A
- 62–63** Series 70
- 64–65** Series 106 T
- 66–67** Type 80 T
- 68–69** Type 80 M Installation
- 70–71** Type 70 electric
- 72–73** Series Pocket
- 74–75** Series 81 S

**10** YEAR  
GUARANTEE

For the warranty declaration,  
see back page.

## STABILA spirit levels – the basic principle of precision:

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.



100 percent accuracy – permanently true

### This is how we secure permanent precision:



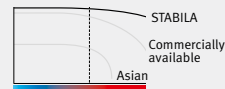
#### STABILA installation technology:

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.

### This is how we enable optimum handling:



#### Profile:

The profile is the extension of the vial. This is why it has to be made of lasting and stable material. The powder-coated surface is robust and easy to clean.

#### Normal position / reverse position:

Only spirit levels whose vials are suitable for the reverse position display reliable measurements in this position.



#### Measuring surfaces:

Depending on the design, a spirit level is equipped with one or two measuring surfaces. The second measuring surface increases the possibilities of use.

#### End caps:

Permanent end caps made of impact-resistant plastic are used to protect measuring areas reliably.



#### Magnet system:

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



## 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.
- Removeable 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

### Type

Accuracy in normal position

Accuracy in reverse position

Measuring surfaces

Vial type

End caps

### Length / Art. No.

61 cm\*

81 cm\*

100 cm\*

122 cm\*

183 cm\*

200 cm\*

244 cm\*

### R 300

0.029° = 0.5 mm/m

0.029° = 0.5 mm/m

2 x

1 x horizontal

2 x vertical

Removeable /

Anti-slip stopper /

Shock absorbers

18371/4

18372/1

18373/8

18374/5

18375/2

18450/6

18376/9



### 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.



## 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.



## Series 196

### Type

Accuracy in normal position

Accuracy in reverse position

Measuring surfaces

Vial type

End caps

Special feature

### Length / Art. No.

61 cm

81 cm

100 cm

122 cm

183 cm\*

200 cm\*

### 196-2

0.029° = 0.5 mm/m

0.029° = 0.5 mm/m

2 x

1 x horizontal

2 x vertical

Removeable /

Anti-slip stopper /

Shock absorbers

–

15233/8

15234/5

15235/2

15236/9

15237/6

17209/1

### 196-2 LED

0.029° = 0.5 mm/m

0.029° = 0.5 mm/m

2 x

1 x horizontal

2 x vertical

Removeable /

Anti-slip stopper /

Shock absorbers

LED

17392/0

–

–

17393/7

–

–



Removeable, shock-absorbing end caps with anti-slip stopper



Finger-grip opening for firm, secure hold.



**Type 196-2 LED:** Illuminated vials. Optimum readability.

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

## 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.
- Removeable 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	
Accuracy in normal position	
Accuracy in reverse position	
Measuring surfaces	
Vial type	
End caps	
Special feature	
Length / Art. No.	
40 cm	
61 cm	
81 cm	
100 cm	
122 cm	
183 cm*	
200 cm*	
244 cm*	



96-2	96-2 M
0.029° = 0.5 mm/m	0.029° = 0.5 mm/m
0.043° = 0.75 mm/m	0.043° = 0.75 mm/m
2 x	2 x
1 x horizontal 2 x vertical	1 x horizontal 2 x vertical
Removeable / Anti-slip stopper / Shock absorbers	Removeable / Anti-slip stopper / Shock absorbers
–	Rare-earth magnet
Length / Art. No.	
15225/3	15852/1
15226/0	15853/8
15227/7	15854/5
15228/4	15855/2
15229/1	15856/9
15230/7	15857/6
15231/4	15858/3
15232/1	–



96-2 K
0.029° = 0.5 mm/m
0.043° = 0.75 mm/m
1 x
1 x horizontal 2 x vertical
Removeable / Anti-slip stopper / Shock absorbers
Knocking protection
Length / Art. No.
–
–
16403/4
–
–
–
–
–



Patented anti-slip stoppers make for a firm seat when marking.



**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.

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

## 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

Type	
Accuracy in normal position	
Accuracy in reverse position	
Measuring surfaces	
Vial type	
End caps	
Special feature	
<b>Length / Art. No.</b>	
30 cm	
40 cm	
50 cm	
60 cm	
80 cm	
90 cm	
100 cm	
120 cm	
150 cm	
180 cm	
200 cm	



80 A	80 AM
0.029° = 0.5 mm/m	0.029° = 0.5 mm/m
0.043° = 0.75 mm/m	0.043° = 0.75 mm/m
1 x	1 x
1 x horizontal 1 x vertical	1 x horizontal 1 x vertical
Standard	Standard
–	Rare-earth magnet
<b>16047/0</b>	–
<b>16048/7</b>	<b>16063/0</b>
<b>16049/4</b>	–
<b>16050/0</b>	<b>16064/7</b>
<b>16051/7</b>	<b>16065/4</b>
–	–
<b>16052/4</b>	<b>16066/1</b>
<b>16053/1</b>	<b>16067/8</b>
–	<b>16068/5</b>
–	<b>16069/2</b>
–	<b>16070/8</b>



80 A-2
0.029° = 0.5 mm/m
0.043° = 0.75 mm/m
1 x
1 x horizontal 2 x vertical
Standard
–
–
<b>16054/8</b>
–
<b>16055/5</b>
<b>16056/2</b>
<b>16057/9</b>
<b>16058/6</b>
<b>16059/3</b>
<b>16060/9</b>
<b>16061/6</b>
<b>16062/3</b>



Only spirit levels, whose vials are suitable for the reverse position, display reliable measurements in this position.



**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

Type
Accuracy in normal position
Measuring surfaces
Vial type
End caps
Special feature
Length / Art. No.
30 cm
40 cm
50 cm
60 cm
80 cm
100 cm
120 cm
150 cm
180 cm
200 cm

70	70 W
0.029° = 0.5 mm/m	0.029° = 0.5 mm/m
1 x	1 x
1 x horizontal 1 x vertical	1 x horizontal 1 x vertical 1 x rotatable angle vial
Standard	Standard
–	–
02281/5	–
02282/2	02472/7
02283/9	–
02284/6	02474/1
02286/0	02475/8
02288/4	02478/9
02289/1	–
02290/7	–
02291/4	–
02292/1	–

70 M
0.029° = 0.5 mm/m
1 x
1 x horizontal 1 x vertical
Standard
Rare-earth magnet
02871/8
02872/5
02143/6
02874/9
02875/6
02876/3
02149/8
02877/0
02878/7
02879/4



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.



# 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.



## Series 106 T

Type
Accuracy in normal position
Accuracy in reverse position (closed)
Measuring surfaces
Vial type
End caps
Special features
Length / Art. No.
183 – 315 cm
186 – 318 cm
213 – 376 cm
216 – 379 cm

106 T	106 TM
0.029° = 0.5 mm/m 0.057° = 1.0 mm/m (extended)	0.029° = 0.5 mm/m 0.057° = 1.0 mm/m (extended)
0.043° = 0.75 mm/m	0.043° = 0.75 mm/m
2 x	2 x
1 x horizontal 2 x vertical	1 x horizontal 2 x vertical
Standard	Standard
Telescopic system, Small plates with spacers, metric scale	Telescopic system, Rare-earth magnet, metric scale
17708/9	–
–	17710/2
17709/6	–
–	17711/9



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



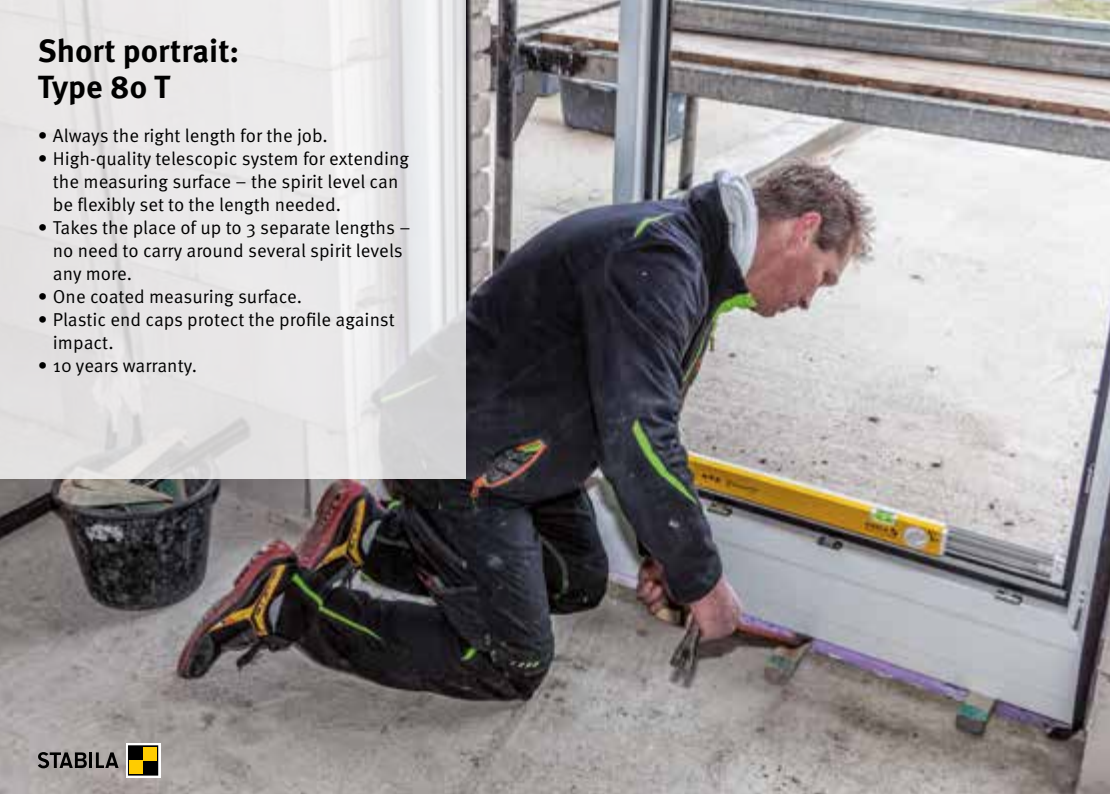
**Type 106 T:** Spacers to even out irregularities.



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

## Short portrait: Type 8o T

- 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.



## Type 8o T

### Type

Accuracy in normal position

Accuracy in reverse position

Measuring surfaces

Vial type

End caps

Special features

Length / Art. No.

63 – 105 cm

80 – 127 cm

### 8o T

0.029° = 0.5 mm/m  
0.057° = 1.0 mm/m  
(extended)

0.043° = 0.75 mm/m  
0.057° = 1.0 mm/m  
(extended)

1 x

1 x horizontal  
1 x vertical

Anti-slip stopper

Telescopic system,  
LOCK system and  
metric scale

**18879/5**

**18880/1**

High-quality extension mechanism ensures high measurement accuracy.

LOCK system to fix the set length.



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.





## Short portrait: Type 8o 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 stoppers 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 8o M Installation

### Type

Accuracy in normal position
Accuracy in reverse position
Measuring surfaces
Vial type
End caps
Special feature

### Length / Art. No.

60 cm
100 cm

### 8o M Installation

0.029° = 0.5 mm/m
0.043° = 0.75 mm/m
1 x
1 x horizontal
1 x vertical
Anti-slip stopper
Rare-earth magnet
<b>16881/0</b>
<b>16882/7</b>

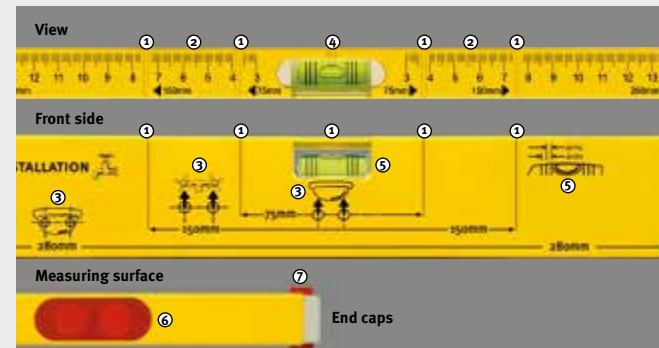


All common installation measurements are printed on the profile: aligning, marking, drilling.



Only spirit levels, whose vials are suitable for the reverse position, display reliable measurements in this position.

1. Notches for the transfer of marking points.
2. Printed, centimetre scale starting at the centre.
3. Printed with all common installation measurements. Identical with marking notches on the upper side.
4. Easy marking: Continuous bridge behind the horizontal vial.
5. Six ring vial for marking 1 % and 2 % slopes.
6. Extra strong rare earth magnets even adhere to small metal surfaces.
7. Patented anti-slip stopper at both ends.





## 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

### Type

Accuracy in normal position

Measuring surfaces

Vial type

End caps

Special feature

### Length / Art. No.

43 cm

120 cm



Patented anti-slip stoppers make for a firm seat when marking.



### 70 electric

0.029° = 0.5 mm/m

1 x

1 x horizontal

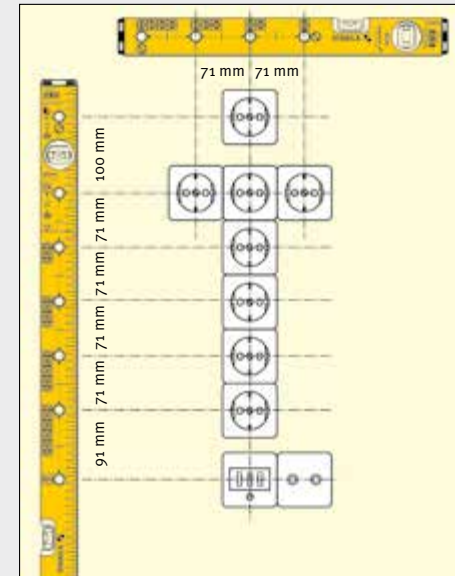
1 x vertical

Anti-slip stopper

Marking holes

16135/4

16136/1



**Warning:** May not comply with the country-specific installation standards.



# Short portrait: Series Pocket

- Professional mini-format spirit level.
- The mini-format hardly needs any space and can always be carried with you.
- Perfect for alignment in inaccessible places.
- Measuring accuracy in normal position 1.0 mm/m.



## Series Pocket



Type	Pocket Electric	Pocket PRO Magnetic
Accuracy in normal position	0,057° = 1,0 mm/m	0.057° = 1.0 mm/m
Vial type	1 x horizontal	1 x horizontal
Measuring surfaces	1 x	2 x with V nut
Special feature	–	Rare-earth magnet
Length / Width / Height / Art. No.		
7 cm / 2 cm / 4 cm	17775/1	–
7 cm / 2 cm / 4 cm (with belt clip)	18115/4	17953/3



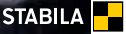
**Pocket Electric**  
**Clever: the channel for the screw-driver.**  
The switch etc. can therefore be quickly and easily adjusted while the spirit level is still in position. The additional base measuring surface makes the Pocket Electric a useful and constant companion not only for electricians.



**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.

# 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

Type
Accuracy in normal position
Accuracy in reverse position
Measuring surfaces
Vial type
Special feature
Length / Art. No.
25 cm
25 cm (with belt pouch)
40 cm
50 cm
60 cm
80 cm
100 cm

81 S
0.029° = 0.5 mm/m
0.043° = 0.75 mm/m
1 x
1 x horizontal
1 x vertical
–
02500/7
02501/4
02502/1
02503/8
02504/5
02505/2
02506/3

81 S REM
0.029° = 0.5 mm/m
0.043° = 0.75 mm/m
1 x
1 x horizontal
1 x vertical
Rare-earth magnet
15348/9
17832/1
–
–
–
–
–
–

81 SV REM W45
0.029° = 0.5 mm/m
0.043° = 0.75 mm/m
1 x with V nut
1 x horizontal
1 x vertical
Rare-earth magnet
–
16672/4
–
–
–
–
–
–



Type 81 SV REM W45:  
Six-ring vial for 1% and 2% gradients.



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



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

## 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.



### Rules

78–79 Series 600 | Series 600 N-S  
Series 400 | Series 1100

**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.**



Rule made of high-quality, specially selected beech. High-strength jointing plates that clasp together and hardened steel springs ensure durability, smoothness and exact locking. Hard-wearing and weather-resistant paint protects the wooden sections and the scale. Red tens for quick orientation. cm/mm scale on both sides of both rule edges.

## Folding rules Series 600



Type	Length	Width	Sections	Colour	Gradation	Art. No.
617	2 m	16 mm	10	White/Yellow	cm / mm	01128/4
617/11	3 m	16 mm	15	White/Yellow	cm / mm	01231/1
607	2 m	16 mm	10	Light yellow	cm / mm	01104/8
1607	2 m	16 mm	10	White	cm / mm	01134/5
1607	2 m	16 mm	10	White	cm / inch	01133/8

## Folding rules Series 400



Type	Length	Width	Sections	Colour	Gradation	Art. No.
407 P	2 m	16 mm	10	Yellow	cm/mm	14556/9
407 N	2 m	16 mm	10	Natural	cm/mm	14348/0
417	2 m	16 mm	10	White/Yellow	cm/mm	14555/2
1407	2 m	16 mm	10	White	cm/mm	14557/6
1407 GEO	2 m	16 mm	10	White	cm/mm 'E' gradation	17927/4
1407 GEO	3 m	16 mm	15	White	cm/mm 'E' gradation	19074/3

Continuous straight edge – ideal for marking. High-quality, specially selected beech. Sheet steel joints with integrated steel spring ensure durability, smoothness and exact locking. Hard-wearing and weather-resistant paint protects the wooden sections and the scale. Red tens for quick orientation. cm/mm scale on both sides of both rule edges.

## Folding rules Series 600 N-S



Type	Length	Width	Sections	Colour	Gradation	Art. No.
607 N-S	2 m	16 mm	10	Natural	cm / mm	18208/3
607 N-S	2 m	16 mm	10	Natural	cm / inch	18214/4
607 N-S	2 m	16 mm	12	Natural	cm / mm	18212/0
601 N-S	1 m	16 mm	6	Natural	cm / mm	18206/9

Especially high level of flexibility thanks to the thin wooden sections which are only 2.5 mm thick. Rule made of high-quality, specially selected beech. High-strength jointing plates and hardened steel springs ensure durability, smoothness and exact locking. Hard-wearing and weather-resistant paint protects the wooden sections and the scale. Red tens for quick orientation.

Rule made of plastic reinforced with fibreglass – especially suitable for working in damp environments. Embedded, durable joints with steel springs can be locked in a right angle. The rule is very flexible when fully folded out. Continuous straight edge – ideal for marking. Deeply imprinted, abrasion-resistant scale.

## Plastic folding rules Series 1100



Type	Length	Width	Sections	Colour	Gradation	Art. No.
1107	2 m	16 mm	10	White	cm/mm	01701/9
1104	1 m	13 mm	10	White	cm/mm	01704/0

## STABILA measuring tapes – proven, practical, durable.

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.



### 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 spikes hook:

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



### The STABILA universal hook:

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

### Pocket tape measures

82–83 BM 40 | BM 30  
84 BM 20

### Cased measuring tapes

85 Type architect  
86 Series BM 50

### Open-frame measuring tapes

87 Series BM 42

**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.**

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.

## Pocket tape measure BM 40



Push brake



Rocker brake

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

The spikes hook prevents the beginning of the tape from slipping.



**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.

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

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.

## Pocket tape measure BM 30 W

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



## 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.



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 20

Unbreakable plastic casing. Curved, polyamide-coated white steel blade (with high abrasion resistance). Adjustable end 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.



Length	2 m	3 m	5 m	3 m/10 ft	5 m/16 ft
Width	13 mm	13 mm	19 mm	13 mm	19 mm
Art. No.	16444/7	16445/4	16446/1	16447/8	16448/5



## Cased measuring tape Type architect



White-painted steel blade, cm and mm graduation, red tens. Extremely durable polyamide casing.

Length	10 m	15 m
Width	10 mm	10 mm
Art. No.	10642/3	10656/0



The smallest 15 m tape measure. The extremely durable light-weight polyamide casing is only 75 mm in diameter. With nickel-plated spring-loaded crank. A high quality measuring instrument with a touch of exclusivity.



#### The universal hook:

- Special hook with spikes coating. Significantly improves non-slip properties.
- New eyelet for quick release fixing – makes precise measurement even faster and simpler.

#### The re-wind drum:

- Optimal handling thanks to the retractable re-wind drum (patent applied for).

#### The casing:

- Impact-resistant nylon casing.
- Can be butted against a stop in all positions.

## Cased measuring tape BM 50



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



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	10 m	20 m	30 m
Width	13 mm	13 mm	13 mm
Art. No. (G)	17214/5	17215/2	17216/9
Art. No. (P)	17217/6	17218/3	17219/0
Art. No. (W)	17220/6	17221/3	17222/0

## Open-frame measuring tape BM 42



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



Polyamide-coated steel measuring tapes (P), standard measurement scale for all measuring steel 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
Width	13 mm	13 mm
Art. No.	10589/1	10596/9

Length	20 m	30 m	50 m
Width	13 mm	13 mm	13 mm
Art. No.	11154/0	11166/3	11178/6

Length	30 m	50 m	100 m
Width	13 mm	13 mm	13 mm
Art. No.	10706/2	10711/6	10721/5

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.



## **STABILA Messgeräte**

Gustav Ullrich GmbH

Landauer Str. 45

76855 Annweiler, Germany

☎ +49 6346 309-0

☎ +49 6346 309-480

✉ info@stabila.de

[www.stabila.com](http://www.stabila.com)



All products on

[www.stabila.com](http://www.stabila.com)



[www.youtube.com/StabilaTools](http://www.youtube.com/StabilaTools)



[www.facebook.com/StabilaTools](http://www.facebook.com/StabilaTools)

### **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).