

STABILA®



...sets standards



Q314

Levels · Lasers · Accessories

1889



In 1889, in a small village in Germany, the foundation stone was laid for an ideas factory, whose inventions and patents simplified, improved and revolutionized measurement.

How seriously do you take your work?

As with many things in life, the same applies to measuring tools: top quality may be a little more expensive initially but it pays for itself over the years. STABILA therefore manufactures spirit levels with firmly cast in, electronically measured vials. One of our many patents.

To present



Measuring tools that are accurate and remain accurate and where all the components are of the same high quality.



From 1889 to the present day: inventions + patents + innovations

The best idea of all time for measuring: the foldable rule.

+ Easy to carry—measuring straight lines: the spring joint allows the sections to lock tightly together when opening or closing the rule.

+ The principle of the tape measure owes its origin to the foldable rule.

+ Unbreakable acrylic glass vials bring the age of ordinary glass to an end for spirit levels.

+ Robust, distortion-free, light metal spirit levels replace the wooden spirit levels that have been used for centuries.

+ A patent which has still to be surpassed provides spirit levels with life-long accuracy—STABILA casts the vials permanently into place in the profile.

+ Just as unique: the spiked hook at the end of the pocket tape measure prevents the end from slipping.



Creative idea: STABILA incorporates a laser into the spirit level. A precision base-plate allows all-round measurement; the sighting system means that the instrument can be used over long distances.

+ Spirit levels become more innovative every year: patented impact protection for brick-layers, special models for electricians and plumbers with standard measurement systems, extra-strong rare earth magnets and anti-slip stoppers to prevent movement, electronic spirit levels with acoustic signals, telescopic systems for extremely long spirit levels.

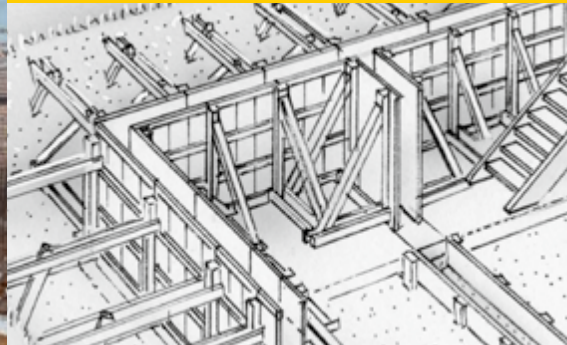
+ And, of course, the laser also benefits from the wealth of inventions discovered by this long-established company: the unique protector system protects the lasers used on construction sites if they fall over or are dropped. Other lasers are equipped with an integral protective frame and their height can be varied. A special laser revolutionised pipe-laying and cable installation in wooden framework walls and beam construction. Receivers for lasers with a modulated pulse line and a new generation with digital displays complete the range of modern measuring technology.



Times Change

This is a 1950's kitchen. Look familiar? We lived this picture. Consider the square footage of the house, wall heights, windows, doors, flooring, counter top materials, lighting etc. It would cost approximately \$6,000 to build this in 1950 dollars. Next is a modern kitchen. Big changes. Consider the square footage of this house, wall heights, windows, doors, flooring, counter top materials, lighting etc. It would cost approximately \$60,000 to build this in 2008 dollars.

The levels that are being offered by most suppliers reflect 1950's applications. One of your prime functions is to meet the demands of your customers quickly with no rework and no callbacks. Our products are designed specifically for modern North American construction applications.



Lasers

Rotating lasers

- 8-9 LAR 250
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STABILA®



1100' (350 m) operating range plus 8 laser functions plus the extremely tough design of the patented STABILA Protector System. 8 functions means: point, point with 90°,

horizontal line, vertical line, plumb-line, horizontal rotation, vertical rotation, inclination. For major projects. For the daily grind. For dry-walling, steel stud framing, interior build-

outs, superstructures, masonry work, concrete construction and formwork.

8 functions in one: self-leveling rotating laser LAR 250 with the DE-TECH REC 300 Digital Receiver

Laser functions



Includes: Rotating laser LAR 250, remote control, 90° angle rail, receiver with bracket, laser goggles and target plate, in a rigid carrying case.

Laser class	Output	Laser wavelength	Self-leveling range (horizontal)	Laser beam accuracy horizontally	Receiver working range*	Batteries included	Battery life	Cat. #
IIIa	< 5 mW	635 nm	approx. ± 5°	± 1/8" @ 100'	Ø 1100' (350 m)	2 x D 1.5 V	approx. 120 h	05600

* At 69.8°F, under optimum atmospheric conditions

The four-stage test procedure demonstrates: Extremely tough.



1. Drop test

2. Water test

3. Heat test

4. Dust test

STABILA

LAR 250

OFF ROAD LAYOUT SYSTEM



Inclination mode:

The STABILA LAR 250's leveling plane can be tilted 5° in one direction by remote control.



Parallel alignment:

of the laser in the vertical plane with the aid of the remote control.



Vertical leveling:

from the tripod with the aid of the metal bracket included in the scope of delivery or directly on the ground.



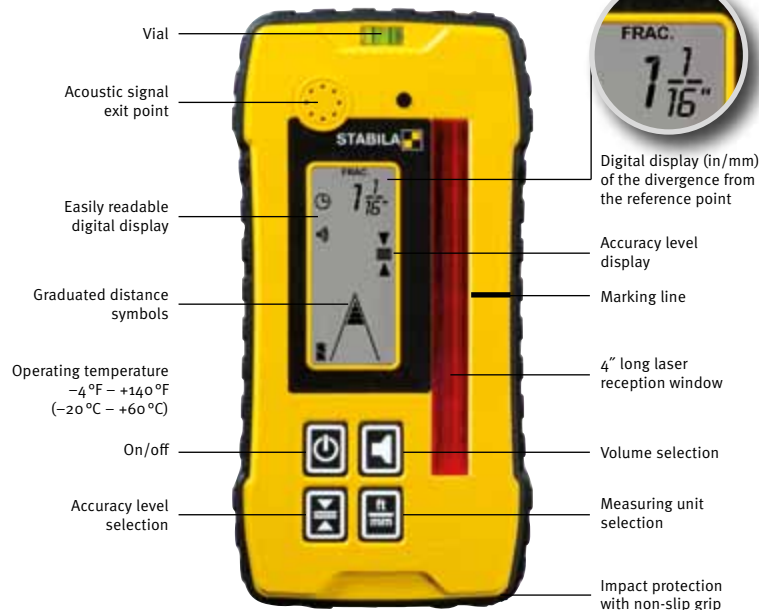
DE-TECH REC 300 Digital Receiver:
Further information on pages 10–11.



With this digital receiver you can read fractions of an inch reference deviation directly in figures from the display. Long range: 4" high receiving area. The fastest and most precise correction of heights provided by digital measuring techniques designed for the construction site.

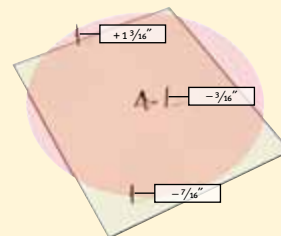
The DE-TECH REC 300 Digital Receiver can be used with most commercially available rotating lasers.

The advantages of the new DE-TECH REC 300 Digital Receiver



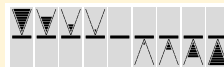
DE-TECH REC 300 Digital Receiver: measure more intelligently—work more efficiently.

Digital display of the reference deviation in in/mm. Read the deviation from the reference height directly in figures: exact $\frac{1}{16}$ " readings. E.g. faster and more precise correction of strut positions and concrete levels. No troublesome moving the receiver on the leveling 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.



Extremely practical: the double display.



Dust and water-proof to IP 67.



Horizontal leveling



Vertical leveling

DE-TECH
Laser Receiver

STABILA 

1. 1800' (550 m) working range with the DE-TECH REC 300 Digital Receiver.
2. Simple operation—one button.
3. Extremely tough thanks to the STABILA protector system.
4. Dust and water-proof to IP 65.

Ideal for site preparation, foundations, pipe-laying for sewage and drains, road-work, landscaping and masonry work.

LAR 200

Self-leveling horizontal rotating laser LAR 200 with the DE-TECH REC 300 Digital Receiver

Laser functions



Includes: Horizontal rotating laser LAR 200 and receiver with clamp in a sturdy case with a rigid exterior.

Laser class	Output	Laser wavelength	Self-leveling range (horizontal)	Laser beam accuracy horizontally	Receiver working range*	Batteries included	Battery life	Cat. #
IIIa	< 5 mW	650 nm	approx. ± 5°	± 1/8" @ 100'	Ø 1800' (550 m)	2 x D 1.5 V	approx. 120 h	05500

* At 69.8°F, under optimum atmospheric conditions

The four-stage test procedure demonstrates: Extremely tough.



1. Drop test



2. Water test



3. Heat test



4. Dust test

OFF ROAD



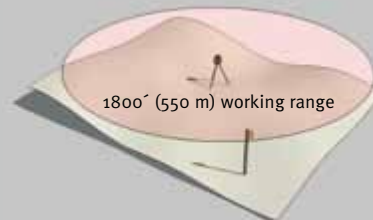
New receiver technology



DE-TECH REC 300 Digital Receiver: Further information on pages 10–11.

Extremely tough: 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. **Dust and water-proof** to IP 65. This says it all. And it is also cold and heat resistant, of course. Easy-to-use: one button—just

press—one function—fast setup for reliable self leveling. **1800' (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.



Optimal visibility indoors: the green laser enables measurements of up to 130 ft (40 m) in interior work.

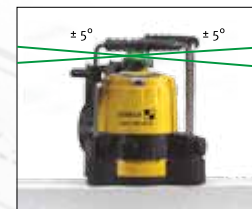
- Fast, precise work through self-leveling.
- Motor-operated automatic leveling. Leveling accuracy: $\pm 1/8''$ @ 100' (± 0.1 mm/m).
- 8 laser functions.
- Controlled slope setting in one direction (on two axes) by $\pm 5^\circ$.
- Rotating laser LAR 120 G: Green Power—the first green-light laser by STABILA.
- Integrated height adjustment enables you to work comfortably at the reference plane.
- Workspace with receiver 980 ft (\varnothing 300 m).
- Horizontal and vertical mounting on a tripod, leveling console or on the floor.
- Continuous re-leveling
- Vibrations are counterbalanced.
- Robust hoop guard and rubber sleeves.
- Inclusive of receiver and remote control.



**5X
Visibility
Indoors**



Safety Instructions:
You must comply with the requirements for operators of class IIIa laser equipment specific to your country.



Incline mode: The leveling plane of the STABILA LAR 120 G can be tilted in one direction (on two axes) by 5° using the remote control.



Integrated height adjustment:
The laser housing can be moved in the guide frame by about 260' (80 mm) in height. Ideal for fine tuning, also without a tripod with lifting column.

Self-leveling, fully automatic, indoor laser system, rotating laser LAR 120 G

Laser functions



Includes: LAR 120 G rotating laser, REC 100 G receiver, remote control, target plate, hard-skinned carrying case.

Laser class	Output	Laser wavelength	Leveling accuracy	Range of visible line	Receiver working range*	Battery life	Cat. #
IIIa	< 5 mW	532 nm	$\pm 1/8''$ @ 100' (± 0.1 mm/m)	130' ** (40 m **)	\varnothing 980' (300 m)	approx. 18 h	05300

* At 69.8 °F, under optimum atmospheric conditions

** Indoors under typical operating conditions

LAR 120 G

- No waiting time: Fast self-leveling via pendulum technology compatible with any construction site. Levels much faster than a motor-powered rotating laser.
- Large working range: 600' (180 m) with receiver.
- The most important laser functions combined in one unit: Rotation horizontally and

- vertically, three-stage scan, plumb line, 90° angle.
- Pendulum protected by lock during transport.
- Protected in all positions by sturdy metal bows and shock-absorbing soft-grip casing.
- Long operating period: approx. 80 hours.
- IP 54.

LAPR 150 rotating laser: Fast, easy, dependable.

LAPR 150

Laser functions



Includes: LAPR 150 rotating laser with point and line mode, target plate, receiver, leveling rod, construction tripod and carrying case.

Laser class	Output	Laser wavelength	Leveling accuracy horizontal	Leveling accuracy vertical	Receiver working range*	Battery life	Cat. #
IIIa	< 5 mW	635 nm	± 1/4" @ 100' (± 0.2 mm/m)	± 5/16" @ 100' (± 0.3 mm/m)	600' (180 m)	approx. 80 h	05155

* At 69.8°F, under optimum atmospheric conditions



Type LAPR 150 rotating laser
Ideal for:
Residential construction and residential concrete.
Working range: 600' (180 m) with receiver



Large leveling range with pivoting laser body.



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



Quickly change from horizontal to vertical position.

The layout station for indoors and outdoors

A motor-operated, self-leveling line laser. Set out right angles fully automatically—with the motor-operated precision alignment function in combination with the REC 410 Line RF receiver.

Setting out right angles and transferring axes and datum points on site takes a lot of time and effort. The new STABILA self-leveling, multi-line laser makes marking out more precise and faster than ever before. Both indoors and outdoors. Also for transferring heights, aligning and plumb-lining. These multi-line lasers can be easily positioned in corners. Sharp, easily visible laser lines.



Effective in outdoor work: the LA 180 L combined with the new REC 410 Line RF line receiver. Range up to 320 ft (100 m).

The LA 180 L multi-line laser with the REC 410 Line RF receiver

Includes: LA 180 L multi-line laser, REC 410 Line RF receiver with bracket, laser observation goggles, 2 off target plates, hard-skinned carrying case.

Laser class	Output	Laser wavelength	Self-leveling range horizontal	Leveling accuracy	Line straightness	Range of visible line
II	< 1 mW	635 nm	approx. $\pm 5^\circ$	$\pm 1/16'' @ 100'$ ($\pm 0.07 \text{ mm/m}$)	$\pm 1/8'' @ 100'$ ($\pm 0.1 \text{ mm/m}$)	60' * (20 m*)

Range with receiver**	Batteries included	Battery life	Cat. #
Up to 320' (100 m)	4 x D 1.5 V	approx. 20 h	04190

* Indoors under typical operating conditions
 ** In a straight line the range is up to 320 ft (100 m) and 130 ft (40 m) at an angle of 45° to the instrument's axis

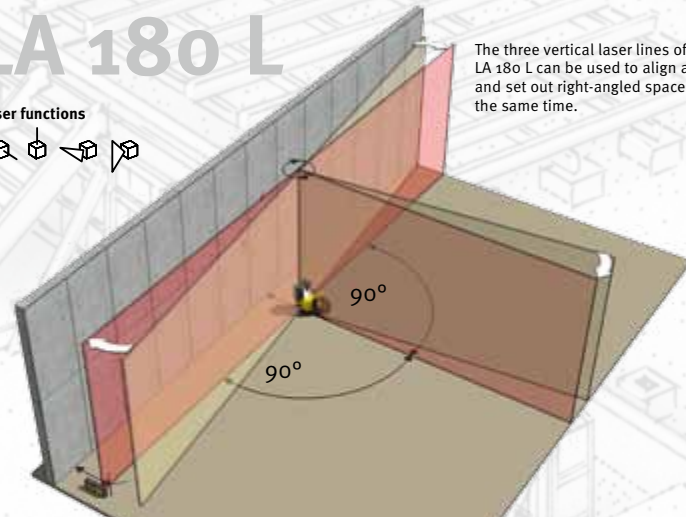
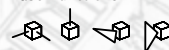
CAUTION

LASER RADIATION
DO NOT STARE
INTO BEAM

630nm-660nm/<1mW
CLASS II LASRE PRODUCT
CFR 1040.10 AND 1040.11 CFR

LA 180 L

Laser functions



The three vertical laser lines of the LA 180 L can be used to align axis and set out right-angled spaces at the same time.



AUTOALIGNMENT control.

The REC 410 Line RF receiver uses wireless technology to align the LA 180 L laser fully automatically. One man is all you need.



AUTOALIGNMENT



The layout station for indoors

- Motor-driven, self-leveling line laser. For rapid and safe work with visible laser lines. Visible line range up to 60 ft (20 m).
- The laser is manually swivelled onto the mark with the control knob on the housing, setting out the right angle.
- Transfer of the layout from the floor to walls and ceilings.
- Sharp, clearly visible laser lines. For reliable height measurements. Or the simple transfer of datums into several rooms. For everyone who likes accuracy.
- The functional shape of the housing allows the laser to be easily positioned against the wall or in a corner. Perfect for setting out tiled areas.
- The laser at work in dry-walling: U-profiles are directly aligned with the laser line and fastened into place in a single step.



MANUAL ALIGNMENT

The LA 90 L: motor-driven, self-leveling line laser.

Includes: LA 90 L multi-line laser, laser goggles, 2 target plates, sturdy carrying case.

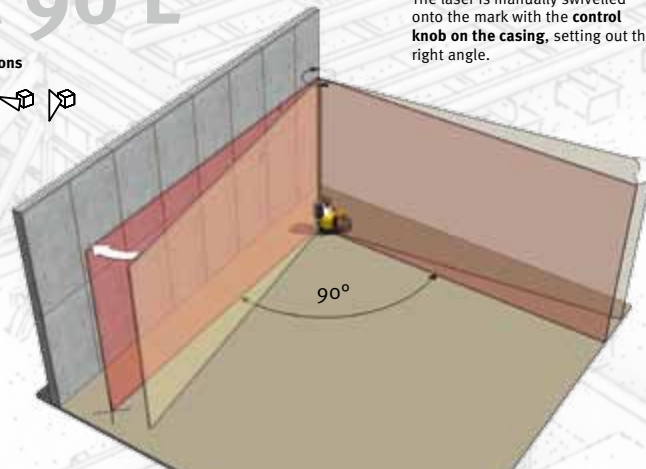
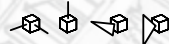
Laser class	Output	Laser wavelength	Self-leveling range horizontal	Leveling accuracy	Line straightness
II	< 1 mW	635 nm	approx. $\pm 5^\circ$	$\pm 1/16'' @ 100'$ ($\pm 0.07 \text{ mm/m}$)	$\pm 1/8'' @ 100'$ ($\pm 0.1 \text{ mm/m}$)

Range of visible line	Batteries included	Battery life	Cat. #
60' * (20 m*)	4 x D 1.5 V	approx. 20 h	04490

* Indoors in typical working conditions

LA 90 L

Laser functions



The laser is manually swivelled onto the mark with the **control knob on the casing**, setting out the right angle.



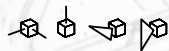
CAUTION
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630nm-660nm/<1mW
CLASS II LASRE PRODUCT
CFR1040.10 AND 1040.11CFR

- For quick and precise layout, plumbing and leveling.
- Bright and sharp lines. Bright, small and round points.
- Plumb up and down points are easy to see and work with when the foot is in the elevated position.
- The laser can be rotated 360 degrees in its housing.
- Easy to get into position: 1.) Set it directly on the floor, counter etc. 2.) Attach to a tripod or laser pole with a 1/4" thread. 3.) Attaches to steel with the rare earth magnet with V-groove on the backside of the exterior housing. 4.) Add the security of a strap or belt pulled tight around posts etc.
- Soft grip rubber on the housing for grip and drop protection.
- Rated IP 54. Protection against dust, rain and water spray.
- U-shaped outer housing protects the lenses when the laser is not in use (park position).
- Pulsed laser lines allow the laser to be used outdoors at long range with the REC 210 line receiver. This special receiver is an optional accessory.



The LAX 300 self-leveling cross line plus plumb points laser.

Laser functions



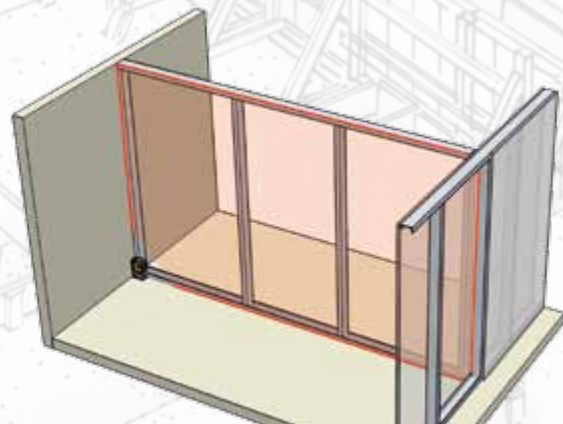
Includes: LAX 300 self-leveling crossed line and plumb line laser, target plate, wall bracket, belt pouch.

LAX 300

Laser class	Output	Laser wavelength	Self-leveling range	Leveling accuracy	Line straightness	Laser beam accuracy (up)
II	< 1 mW	635 nm	approx. ± 4.5°	± 3/8" @ 100' (0.3 mm/m)	± 1/4" @ 100' (0.2 mm/m)	± 3/8" @ 100' (0.3 mm/m)

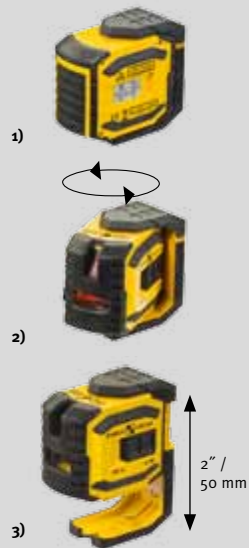
Laser beam accuracy (down)	Range of visible line	Battery life	Batteries included	Cat. No.
± 1/2" @ 100' (0.4 mm/m)	60°* (20 m*)	approx. 20 h	3 x AA 1.5 V	03180

* Indoors under typical operating conditions



The vertical laser line covers almost the entire room.

CAUTION
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630nm-660nm/<1mW
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CFR 1040.10 AND 1040.11CFR



1) Park position. 2) The casing can pivot 360° inside the U-grip. 3) The extendable foot can be used to adjust the laser's height.

Now up to 50 ft (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 50 ft (15 m). At the press of a button straight laser lines at a 90° angle.

Increase your productivity:

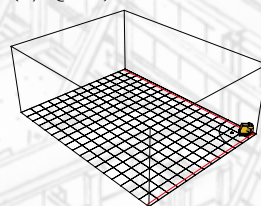
- Check the squareness of walls accurately.
- Fast layout markup.
- Working directly on the laser line is more accurate and saves time.
- Tiles can be exactly aligned.
- Chalk-lines are covered over with tile adhesive or easily rubbed away—laser lines remain visible.



Because the laser lines are pulsed, the range with the optional STABILA receiver REC 210 Line can be increased to up to 490 ft (150 m)—for exact layouts over long distances.

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 a 90° angle ($\pm 3/8'' @ 100'$).



Floor line laser FLS 90

Laser functions



Includes: FLS 90 floor line laser, target plate, belt pouch.

Laser class	Output	Laser wavelength	Accuracy at 90° angle	Range of visible line	Battery life	Batteries included	Cat. No.
II	< 1 mW	635 nm	$\pm 3/8'' @ 100'$ (0.3 mm/m)	50' * (15 m*)	approx. 20 h	3 x AA 1.5 V	04490

* Indoors under typical operating conditions



The innovative 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.

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



On tiles



On flat surfaces

- Fast layout and transfer of right angles. Up and down plumb points for the positioning of straight and curved studs. For rapid and accurate alignment.
- Rotate the laser 360 degrees in its housing, precisely and quickly transferring the layout points.
- Bright, small round dots are easy to see indoors (up to 90 ft / 30 m) and work with.
- Easy to get into position: 1.) Set it directly on the floor, counter etc. 2.) Attach to a tripod or laser pole with a 1/4" thread. 3.) Attaches to steel with the rare earth magnet with V-groove on the backside of the exterior housing. 4.) Add the security of a strap or belt pulled tight around posts etc.
- Shock absorbing soft-grip rubber on the outer housing.
- Rated IP 54. Protection against dust, rain and water spray.
- Fully closed and locked position: Rotate the laser so the lenses are fully protected by the outer housing. Shifting the black slide switch to the "locked-off" position to secure the moving parts.

LaserBob Layout Kit

5 beam layout tool

CAUTION

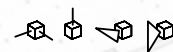
LASER RADIATION
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INTO BEAM

630nm-660nm < 1mW
CLASS II LASER PRODUCT
CFR 1040.10 AND 1040.11 CFR

LA-5P

LA-5P

Laser functions



Includes: LA-5P 5 point laser, target plate, wall bracket, belt pouch.

Laser class	Output	Laser wavelength	Self-leveling range	Leveling accuracy horizontal	Accuracy at 90° angle	Laser beam accuracy (up)
II	< 1 mW	635 nm	approx. ± 4.5°	± 3/8" @ 100' (0.3 mm/m)	± 1/4" @ 100' (0.2 mm/m)	± 3/8" @ 100' (0.3 mm/m)

Laser beam accuracy (down)	Range of visible point	Battery life	Batteries included	Cat. #
± 1/2" @ 100' (0.4 mm/m)	100' * (30 m*)	approx. 20 h	3 x AA 1.5 V	03160

* Indoors under typical operating conditions



1)



2)



3)



2" / 50 mm

- 1) Park position. 2) The casing can pivot 360° inside the U-grip. 3) The extendable foot can be used to adjust the laser's height.

Compact Class

Provides the basic measuring technology that 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.
- The LD 320 fulfils the new international standard ISO 16331-1. You can really rely on the range and accuracy data.



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

LD 320

Measure up to 130 ft* (40 m)

LD 320

Includes: Laser measure LD 320, belt pouch, 2 AAA batteries, with wrist-strap.

Laser class	Output	Laser wavelength	Accuracy typical	Measuring Range
II	< 1 mW	635 nm	± 3/32" (± 2.0 mm)	0.17–130 ft* (0.05–40 m)

Protection class	Battery life	Batteries included	Cat. #
IP 40	Up to 3,000 measurements	2 x AAA	06320

* without reflector plate (with reflector plate to 160 ft / 50 m)

8 functions—summary on pages 32–33



Measuring Genius

The LD 420 is versatile. You add your personal constants to the memory—for example the working hour costs, the price per square FT 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 line with IP 65 and has an impact-resistant housing

with shock-absorbing STABILA soft grip casing.

- The LD 420 fulfils the new international standard ISO 16331-1. You can really rely on the range and accuracy data.

LD 420

Includes: Laser measure LD 420, belt pouch, 2 AAA batteries, with wrist-strap.

Laser class	Output	Laser wavelength	Accuracy typical	Measuring Range	Protection class	Battery life	Batteries included	Cat. #
II	< 1 mW	635 nm	± 1/16" (± 1.0 mm)	0.17–260 ft* (0.05–80 m)	IP 65	Up to 5,000 measurements	2 x AAA	06420

12 functions—summary on pages 32–33

* without reflector plate (with reflector plate to 320 ft / 100 m)



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



LD 420

Measure up to 260 ft* (80 m)



Digital Target Locator. The smart way to measure.

- Digital target locator with 4x zoom to measure distances up to 600 ft (200 m).
- 2.4" color 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 ± 1/16" (± 1.0 mm).
- IP 54 protection class against rain / dust.
- Robust, impact-resistant housing with shock-absorbing softgrip cover.



CAUTION
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630nm-660nm / <1mW
CLASS II LASER PRODUCT
CFR 1040.10 AND 1040.11 CFR

LD 520

Includes: Laser measure LD 520, belt pouch, 2 AA batteries, with wrist-strap.

Laser class	Output	Laser wavelength	Accuracy typical	Protection class
II	< 1 mW	635 nm	± 1/16" (± 1.0 mm)	IP 54
Measuring Range	Battery life	Batteries included	Cat. #	
0.17-660 ft* (0.05-200 m)	Up to 5,000 measurements	2 x AA	06520	

18 functions—summary on pages 32-33

**LASER
MEASURE**

LD 520
Measure up to
660 ft* (200 m)



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 color 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.



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 technology (4.0) allows wireless transfer of your measurement data from the LD 520.

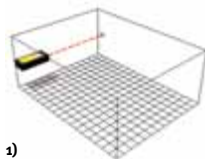
We have developed a free app for your iPhone or iPad, **STABILA Measures**, enables you to produce drawings of areas, spaces and buildings, or quick sketches by hand, and to dimension them directly.

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.



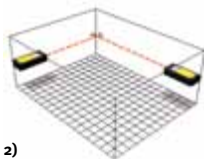
Laser distance measurers: Overview of functions

- 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.



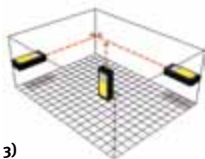
1)

LD 320 420 520



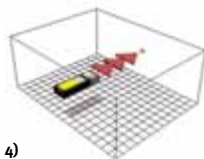
2)

LD 320 420 520



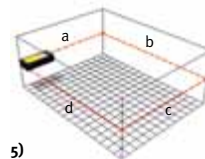
3)

LD 320 420 520



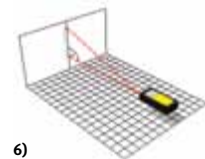
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LD 320 420 520



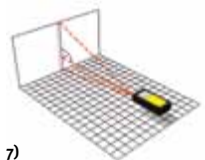
5)

LD - 420 520



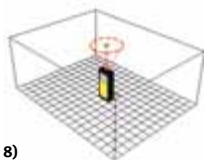
6)

LD 320 420 520



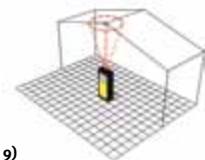
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LD 320 420 520



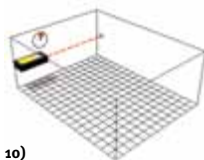
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LD 320 420 520



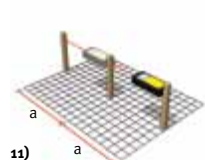
9)

LD 320 420 520



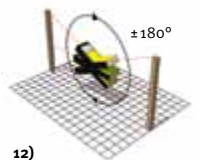
10)

LD - 420 520



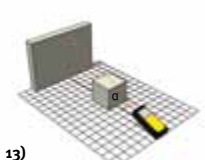
11)

LD - 420 520



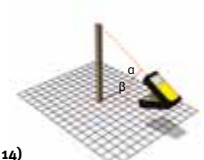
12)

LD - - 520



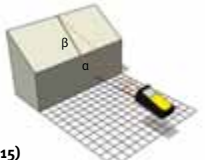
13)

LD - - 520



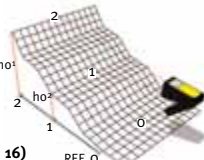
14)

LD - - 520



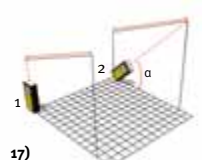
15)

LD - - 520



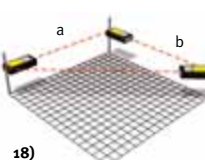
16)

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.

Laser Accessories



BST-S

Construction tripod with spread stop, rapid locking and shoulder strap.
Height: 39" – 63"
Thread: 5/8"
Weight: approx. 10.5 lbs

Cat. # **07498**



BST-K-M

Construction tripod on air-cushioned lifting column, spread stop and quick-release fastener.
Height: 27" – 67"
Thread: 5/8"
Weight: approx. 13 lbs

Cat. # **08560**



BST-K-XL

Construction tripod with air-damped lifting column, metric scale, spread stop and quick-release fastener.
Height: 46" – 118"
Thread: 5/8"
Weight: approx. 16 lbs

Cat. # **08590**



NK 100 base plate

Ideal for indoor construction work: a height-adjustable base plate (wall-mounting bracket) for rotating lasers. Hung on a nail or a profiled track.
Range of applications: hanging suspended ceilings, screeding, etc.

Cat. # **07465**



REC 210 Line

For STABILA line laser with a modulated laser line. Range, for example with the LA-2PL LaserBob Level, up to 100 m.

Cat. # **07330**



DE-TECH REC 300 Digital

Reference deviation can be read off directly from the display in in/mm. Probably the fastest correction of heights. Can be used with most commercially available rotating lasers.

Cat. # **07430**

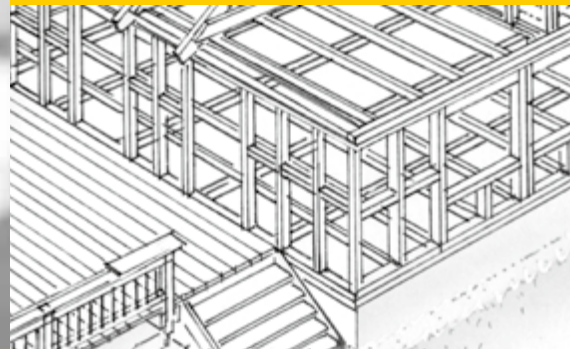


± Laser Elevation Rod

Yellow inch scale with 1/8" increments. Red scale with 10ths of an inch increments. With adjustment slide for optimal display clarity and trouble-free height definition.



Length	52"-7'	52"-7'
Scale	inch/10ths of an inch	inch/metric
Cat. #	07468	07469



Spirit levels

38-41 The main elements of a traditional spirit level

Spirit levels

42-43 R-Beam

44-45 Type 196-2 LED

46-47 Type 196-2 electronic IP 65 |
Type 196-2-M electronic IP 65

48-49 Type 196-2 | Type 96-2-M

50-51 Type Mason Level Type 196 K

52-53 Type 80 A-2

54-55 Plate Level® 2 Type 106 T | Type 106 TM

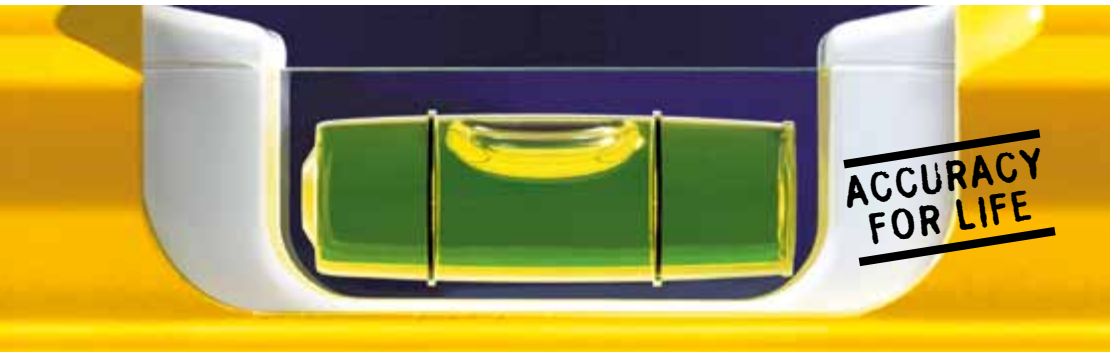
56 Type 80 A-2M Measuring strick

57 Level Accessories

58-59 Pocket Non-Magnetic | Pocket Magnetic |
Pocket PRO Magnetic with holster

60-61 Type 81 S | Type 81 S REM | Type 81 SV REM W45 |
Type 81 SV REM W360

STABILA® 



The vial block:

This consists of precision CNC-machined acrylic glass with corrosion-proof rings. Under normal, construction conditions, the vials are virtually unbreakable and they are easy to clean (simply water and brush).

Overhead measurements:

This involves turning the spirit level upside down and measuring with the measuring surface facing upwards. Not all vials are suitable for these types of measurements.

The vial solution:

The special fluorescent solution is highly resistant to UV radiation. It ensures an easily readable bubble whose

movements are neither too slow nor too fast. The size of the bubble is also important for precise readings. It must neither be too small nor overflow the rings on the vial at low temperatures when the solution shrinks. It must be possible to take a precise reading at temperatures from -4°F (-20°C) to $+122^{\circ}\text{F}$ ($+50^{\circ}\text{C}$).

Electrostatic charge:

The composition of the vial's solution prevents any influence on the vial's operation, and thereby its precision, through the build-up of electrostatic charge.

The different types of vials

The vertical vial can also be found constructed as a vial for measuring angles. In this case, the whole vial block holder is designed to turn and is surrounded by an easy to read scale marked out in degrees.

When the spirit level is lying on a sloping surface, turning the vial to the horizontal direction enables the angle of inclination to be read easily from the graduated scale.



1.



2.



3.



4.



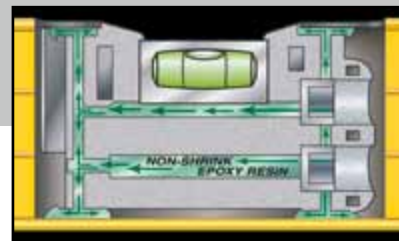
5.

1. Horizontal level vial
2. Vertical plumb vial
3. Angle vial
4. 45° angle vial
5. Six ring vial

Vial block holder

The high-quality plastic housing forms the connection between the vial and the spirit level's profile. For this reason, the vial block housing, provided that it is aligned parallel to the measurement surface, is one of the most important elements governing the spirit level's accuracy. One of STABILA's most secure processes is its patented moulding-in process, in which the vial block holder consists of two sections: the receptacle, which can be adjusted, and the clamping unit, which holds the vial securely in the profile. All three elements are incorporated into the

body of the spirit level. A lifelong, unstressed, unshakeably secure connection is produced by pressing in a non-shrinking synthetic resin. The vial block is adjusted in the holder before the resin hardens, thereby guaranteeing highest long-term precision. Vials or vial systems that are screwed on and not moulded into the profile cannot meet this requirement.



The measuring surfaces

The measuring surfaces on spirit levels can be designed in various ways. In most cases, the complete body of the spirit level, including the measuring surface, is powder-coated, painted or anodized, but on some spirit levels the measuring surface is also milled flat after the coating process.



Coated measuring surface



Milled measuring surface



Measuring surface with stand-offs.



Milled measuring surface with super-powerful rare earth magnet system—the optimum system for steel construction work.



Milled measuring surface with a V-shaped groove — for extra secure connection to pipes and other steel items.

The spirit level profile

The profile constitutes an extension of the vial and must therefore be made of a lasting and stable material. This material combines great practicality, low weight and optimum handling.

STABILA goes one stage further. Depending on the application's requirements, different profile cross-sections and wall thicknesses are used on the spirit levels. Another important point is how the profile is stamped out to receive the vial unit. Important factors here are, on the one hand, that the profile's stability must be affected as little as possible and, on the other hand, that the vial must be as visible as possible. On STABILA spirit levels the horizontal vial has a viewing angle of up to 300°.



Strong rectangular profile
Ribs for reinforcement and easier handling
Type 80



Especially rigid rectangular profile
Ribs for reinforcement and easier handling
Type 196



Torsion-resistant five-chamber 'R' profile
Type R 300



T cast profile
(Die-cast) Type 81

The end caps

Impact-resistant plastic end caps are used to protect the measuring surfaces. Shock-absorbing end caps protect frame from impact.



Standard end caps:
Impact and shock-resistant.



End caps with patented anti-slip stoppers:
holds firm even when positioned with just one hand. Greater security when marking out.



Removeable and replaceable end caps:
Mark right into corners—lay on narrow edges.



Shock-absorbing end caps:
Two-component material mix ensures effective energy absorption upon impact.



R-Beam

Strength—stability—precision

- **Strength:** + 120 % versus Type 196 levels.
- **Stability:** No tip-overs.
- **3 Edges:** Straight, sharp pencil & cut lines.
- **Accurate:** Vials read the same in all positions.
- **Endcaps:** Shock absorbing & removable.
- **Shape:** Handrail grip—feels good.
- **Surface:** Fender smooth—easy to clean.



Length	24"	32"	48"	72"	78"	96"
Cat. #	41024	41032	41048	41072	41078	41096

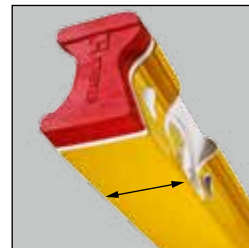
Also available replacement end caps (Cat. # 20080).

Light metal torsion-resistant five-chamber 'R' profile, removable end caps and 2 coated measuring surface, 2 vertical vials and 1 horizontal vial.

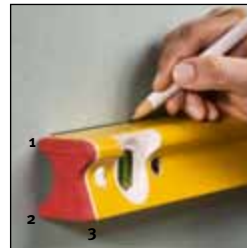
Measurement accuracy: in the normal position $0.029^\circ = 0.5 \text{ mm/m}$, overhead measurement $0.029^\circ = 0.5 \text{ mm/m}$.



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 line-marking 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.

Type 196-2 LED: Illuminated vials.

- High-performance spirit level with two built-in LED light sources.
- Intense, uniform illumination of both the horizontal and vertical vial.
- Each vial can be individually switched on and off.
- Robust lighting system suitable for use on building sites.



Once you have worked with illuminated vials in darkness, twilight, dust or in your own light, you will never want to be without this spirit level.



Length	24"	48"
Cat. #	39324	39340

Also available replacement light packs (Cat. # 20090) and replacement end caps (Cat. # 20070).

Strong light metal. 2 milled measuring surfaces. Finger grip opening. Removable end caps. 1 illuminated horizontal and 1 illuminated vertical vial. Additional second vertical vial.

Measuring accuracy: in the normal position $0.029^\circ = 0.5 \text{ mm/m}$, overhead measurement $0.029^\circ = 0.5 \text{ mm/m}$.



Battery life: 5 hours continuous use or approx. 600 uses.



Rapid battery replacement: battery replacement pack with 2 LED units—fast on-site battery change. Optional accessory (Cat. #20090). Can also be used as a powerful mini flashlight.

Type 196-2 electronic IP 65

The latest in innovation and design in levels exceeding the criteria of STABILA: Accurate, Durable and Easy to Use. • Fully washable. Dustproof and waterproof in line with IP 65. • Two digital displays that can be read optimally in any work situation—illuminated at the push of a button. • Measured values determined without delay. • Audible inclination guide with three different signal tones. • Key-lock. • Warning when tilting the spirit level in the second axis. • Display modes: °, %, mm/m, ft/in—decimal and as fraction. Selection between fine and rough display (0.05°/0.1°) in degree mode. • Extremely robust. Shock-absorbing end caps. • Around 150 hours operating period.

Strong light alloy ribbed rectangular profile. 2 milled measuring surfaces, 1 horizontal vial and 2 vertical vials, 1 gripping hole. High-quality carrying case included. **Measuring accuracy of the vials:** in normal position $0.029^\circ = 0.5 \text{ mm/m}$, overhead measurement $0.029^\circ = 0.5 \text{ mm/m}$. **Electronic inclination accuracy:** at 0° and $90^\circ = \pm 0.05^\circ$, from 1° to $89^\circ = \pm 0.2^\circ$.

Length	14"	24"	48"
Cat. #	36514	36524	36548

Also available replacement end caps (Cat. # 20070).



Dustproof and waterproof in line with IP 65.



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



Fully washable. Dustproof and waterproof in line with IP 65.

Length	24"	48"
Magnets	2	4
Cat. #	36520	36540

Also available replacement end caps (Cat. # 20070).



Reliable, rapid, convenient measuring in all situations: Thanks to illuminated displays and audible inclination guide.

Type 196-2-M electronic IP 65

Identical in construction to the electronic spirit level—but the rare earth magnets in the measuring surface are a definite plus. The innovation for everyone who has to align steel components. Audible inclination guide and two digital displays makes even very difficult work noticeably easier.



Rare earth magnets: **5 times stronger** than normal ferrite magnets.

Type 196-2

- Unique vial design:
 - Bright, easy to read, right where you want it
 - No bending over
 - Vials will not leak or break
 - No inaccurate reading from static in dry conditions
- Electrostatic Frame. Finish, baked on, tough, cleans up with water and brush.
- Levels 59" and longer have a bridge over horizontal vial for increased frame strength and uninterrupted scribing.



Light metal rectangular profile with 2 handholes, removeable end caps and 2 milled measuring surfaces (up to 48 inch), 2 vertical and 1 horizontal vial. **Measurement accuracy:** in normal position $0.029^\circ = 0.5 \text{ mm/m}$, overhead measurement $0.029^\circ = 0.5 \text{ mm/m}$.

Length	16" 1 Plumb Vial	24"	32"	36"	48"	59"	59" plus 24" Level Set	72"	78"	78" plus 32" Jamber Set	96"
Hand-holes	1	2	2	2	2	2	2	2	2	2	without
Cat. #	37416	37424	37432	37436	37448	37459	37524	37472	37478	37532	37496

Also available replacement end caps (Cat. # 20070).



Type 96-2-M

Although of the same construction as Type 96, the additional design features make the 96-2-M a very special spirit level. Because of its two milled measuring surfaces you can lay the 96-2-M in any position. "M" means magnets and, in fact, the super-powerful rare earth magnets can stick the 96-2-M to steel like it was glued on.



Light metal rectangular profile with removeable end caps and 2 milled measuring surfaces (up to 59"), 2 vertical and 1 horizontal vial, 2 or 4 rare earth magnet systems depending on the length.

Measurement accuracy: in normal position $0.029^\circ = 0.5 \text{ mm/m}$, overhead measurement $0.029^\circ = 0.5 \text{ mm/m}$.

Length	16"	24"	32"	36"	48"	59"	72"	78"	78" plus 32" Magnetic Jamber Set	96"
Hand-holes	without	without	without	without	2	2	2	2	78" (2) 32" (without)	2
Cat. #	38616	38624	38632	38636	38648	38659	38672	38678	38532	38696

Also available replacement end caps (Cat. # 20070).



Rare earth magnets:
5 times stronger
than normal ferrite magnets.

Mason Level Type 196 K

- Lightweight and strong frame.
- Special plumb vial locations to put the bubble in front of your eyes no matter which course you are on.
- Wide open Plumb Vials for maximum visibility.
- Strike Zones—Blow shields are designed to be hit with a trowel.
- Centered hand holes (on 36" and 48" levels) for one handed balance.
- Wide open horizontal vial—Less bending over—better for your body.
- Easy to clean vials and frame—smooth design for removal of mortar.
- Removable and replaceable rubber end caps.



Milled measuring surface (up to 48 inch) with 1 horizontal and 2 vertical vials.

Measurement accuracy: in the normal position $0.029^\circ = 0.5 \text{ mm/m}$.
Overhead measurements: $0.029^\circ = 0.5 \text{ mm/m}$.

Length	16"	24"	36"*	48"*
Cat. #	36416	36424	36436	36448

* Levels 36" and longer, have 2 Handholes.

Also available replacement end caps (Cat. # 20070).



Patented "Dead Blow Shield" protects the frame and transfers the energy created by the trowel hit through the level to the work surface.



The beveled vial casing and the special frame coating are easy to clean.





Light metal rectangular profile with milled measuring surface (up to 48 inch / 120 cm) and 2 vertical and 1 horizontal vial. **Measurement accuracy:** in normal position $0.029^\circ = 0.5 \text{ mm/m}$, overhead measurement $0.043^\circ = 0.75 \text{ mm/m}$.

Type	Length	24"	48"	72"	48", 24" plus Torpedo
80 A-2	Cat. #	29024	29048	29072	29824 ProSet
80 A-2M	Cat. #	29224	29248	29272	29924 Magnetic ProSet

Also available replacement end caps (Cat. #20015).

Also available as the 80 A-2M with rare earth magnets.

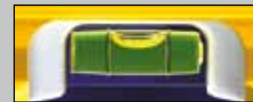
Type 80 A-2

This spirit level can be used to check the horizontality of overhead surfaces by turning it and its horizontal vial upside down. In this so-called "transfer" position, you can then measure precisely from underneath.

Normal position and overhead measurement



Only spirit levels, whose vials are suitable for overhead measurement, provide measurement in this position.



Type 106 T/106 TM: The extra-long range.

- Strong Re-Enforced Frame.
- Scale on both sides of extension for FAST Set-ups: 8'-1", 9'-1", 10"-1" etc.
- Fully seated solid rail (six sided) extension eliminates deflection, and delivers the smoothest extension movement available.
- Top plumb vial is permanently positioned at eye level.
- Frame side opposite the stand-offs is a level measuring surface and a straight edge.
- Vials are guaranteed for life, never to fog, leak or require adjustment.

The design has been patented.



Enormous holding force: the rare earth magnets on the Type 106 TM are **5 x stronger** than conventional ferrite magnets.

Light metal rectangular profile with 2 vertical vials and 1 horizontal vial, 5 or 7 rare earth magnet systems.

Measurement accuracy: in the normal position $0.029^\circ = 0.5 \text{ mm/m}$. When extended in normal position: $0.057^\circ = 1.0 \text{ mm/m}$. For overhead measurements (in closed position): $0.043^\circ = 0.75 \text{ mm/m}$.

Length	6'-10'	7'-12'
Magnets	7	7
Cat. #	34610	34712

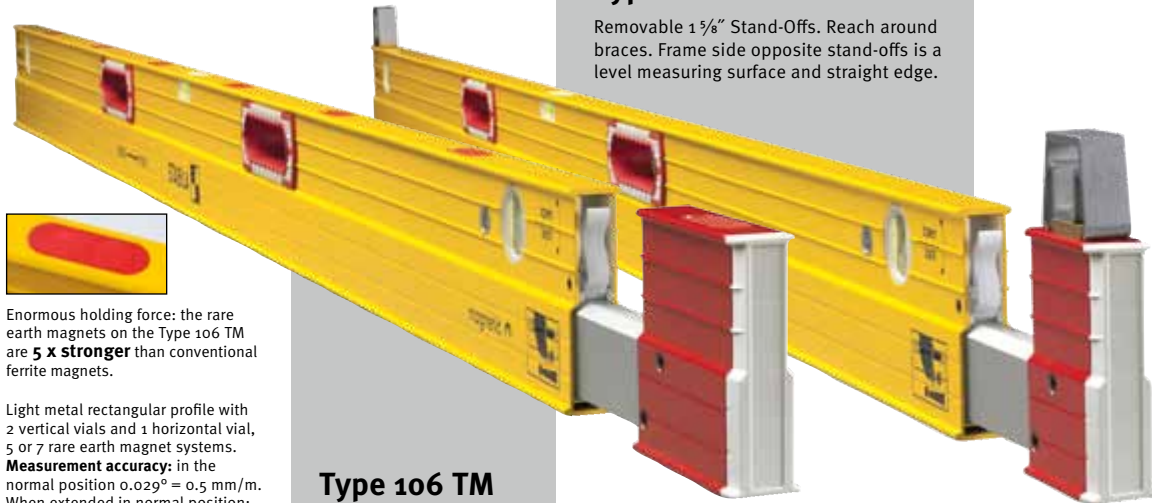
Also available replacement end caps (Cat. # 20065) and maintenance kit (Cat. # 33000).

Type 106 TM

Super strong flush mounted magnets grab steel—Hands-free operation. Your ideal measuring assistant in steel construction work.

Type 106 T

Removable $1 \frac{5}{8}$ " Stand-Offs. Reach around braces. Frame side opposite stand-offs is a level measuring surface and straight edge.

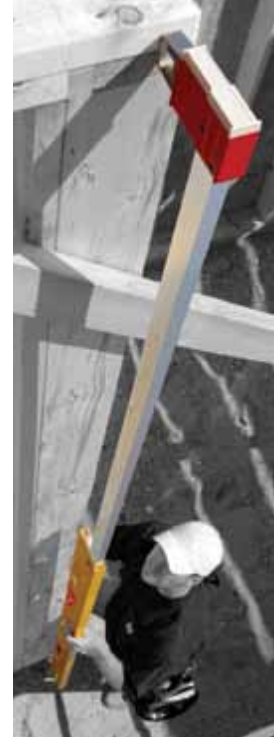


Light metal rectangular profile with 1 horizontal and 2 vertical vials. **Measurement accuracy:** in the normal position $0.029^\circ = 0.5 \text{ mm/m}$. When extended in normal position: $0.057^\circ = 1.0 \text{ mm/m}$. For overhead measurements (in closed position): $0.043^\circ = 0.75 \text{ mm/m}$.

Length	6'-10'	7'-12'
Cat. #	35610	35712

Also available replacement end caps (Cat. # 20065), maintenance kit (Cat. # 33000) and standoffs (Cat. # 33100).

Simply twist-on to add Stand-Offs.



The Measuring Stick Type 80 A-2

Rehab—remodel—restore

- 3 layout scales.
- Double bridge frame.
- Slope indication rings.
- Double sided wall grippers.
- Removable endcaps to carry lines tight into corners.



Light metal profile with 2 vertical vials and 1 horizontal vial. **Measurement accuracy:** in the normal position $0.029^\circ = 0.5 \text{ mm/m}$.

Length	24"	48"
Cat. #	29124	29148

Also available replacement end caps (Cat. # 20035).



Level Accessories



STABILIA Cases:

- Protective • Easy to carry
- Multiple levels in one case • Streamline

Description		H x W x D	Cat. #
Torpedo Level Case	48", 32", 24", 16" and Torpedo	20 x 8 x 2.5	30015
Torpedo Level Case	59", 32", 24", 16" and Torpedo	20 x 8 x 2.5	30059
Torpedo Level Case	78", 59", 32", 24", 16" and Torpedo	22 x 8 x 3.5	30025
Level Case	96" Level	22 x 8 x 3.5	30030
Plate Level Case	5'-8" Plate Level plus 59", 36"	22 x 7 x 3	30033
Plate Level Case	7'-12" Plate Level plus 24"/48"	22 x 7 x 3	30035
Plate Level Case	6'-10" Plate Level plus 24"/48"	22 x 7 x 3	30045

Professional quality in a mini format

Quickly checked, immediately corrected: With the STABILA pocket spirit level everything on site always remains nicely on the level. For aligning units and fixtures, for inaccessible places. For everyone who likes everything to be accurate.

Base measuring surface. 1 horizontal vial. **Measuring accuracy:** in the normal position ± 1 mm/m.

Pocket Non-Magnetic



A plastic mini-format spirit level for horizontal measurements. Ideal for everyone who has to align units and components quickly.

Size	Cat. #
1 5/8" x 2 3/8"	11985

Pocket Magnetic



A plastic mini-format spirit level with extra-strong rare earth magnets for horizontal measurements. It leaves your hands free for aligning and adjusting metal objects.

Size	Cat. #
1 5/8" x 2 3/8"	11990

Pocket PRO Magnetic with holster

The professional mini-format spirit level—ideal for every craftsman who is proud of his work. A robust case with an aluminium core, a rectangular aluminium frame with two precisely milled measuring surfaces—on the side and the base. It also has a cleanly shaped V groove. These professional features allow measurements to be taken on flat and round surfaces. The vibratory ground surface of the aluminium frame (roughened and hardened) provides permanent protection of the Pocket PRO's measuring surfaces. Both the base and lateral measuring surfaces have an extra-strong rare earth magnet—which leave your hands free for adjusting and aligning metal objects. The vertical measuring surface is at 90 degrees to the horizontal measuring surface, allowing vertical measurements to be taken with the horizontal vial. A secure belt clip is included.



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.

Size	Cat. #
1 5/8" x 2 3/8"	11901



Type 81 S

- Big, bright, easy to read vials.
- Heavy-duty, die-cast frame.
- Certified level accuracy; in top read position: $\frac{1}{32}$ " over 72".
- Level accuracy guaranteed for life; vials will never fog, leak or require adjustment.



Light metal die cast profile with milled measuring surface, 1 vertical and 1 horizontal vial. **Measurement accuracy:** in the normal position $0.029^\circ = 0.5 \text{ mm/m}$, overhead measurement $0.043^\circ = 0.75 \text{ mm/m}$.

Length	10"
Cat. #	25010



Extra-strong adhesion to pipes and other steel items thanks to the milled measuring surface with a V groove and rare earth magnets.



Length	10"
Cat. #	25245

Light metal pressure-cast profile with a milled measuring surface. 1 vertical vial and 1 horizontal vial, 45° vial and 1 rare earth magnet. **Measuring accuracy:** in the normal position $0.029^\circ = 0.5 \text{ mm/m}$, when measuring overhead $0.043^\circ = 0.75 \text{ mm/m}$.

Type 81 SV REM W45

Milled measuring surface with a V groove and rare earth magnets. For extra secure adhesion to pipes and other steel items. Six ring vial for 1% and 2% slopes. Fixed 45° vial for direct checking of struts and pipes at 45° . Extra-strong pressure-cast aluminium profile for the most stringent demands. Many advantages to this short 10" length. Many fitters, structural steel erectors, pipework installers, scaffolders and installation engineers have waited for this spirit level.



Rare earth magnets: **5 times stronger** than normal ferrite magnets.

Length	10"
Cat. #	25100



Light metal die cast profile with milled measuring surface, 1 vertical and 1 horizontal vial, 2 rare earth magnets. **Measurement accuracy:** in normal position $0.029^\circ = 0.5 \text{ mm/m}$, overhead measurement $0.043^\circ = 0.75 \text{ mm/m}$.

Type 81 S REM

Handy light metal casing in an especially slim form—extremely sturdy. Milled measuring surface. Super-powerful rare earth magnets provide a secure hold. Suitable for overhead measurement.

Type 81 SV REM W360

Identical to Type 81 SV REM W45—except that it has a scaled vial capable of being rotated through 360° instead of the 45° angle vial.



Light metal pressure-cast profile with a milled measuring surface, 1 vertical vial, 1 horizontal vial capable of being rotated through 360° , and 1 rare earth magnet. **Measuring accuracy:** in the normal position $0.029^\circ = 0.5 \text{ mm/m}$, overhead $0.043^\circ = 0.75 \text{ mm/m}$.

Length	10"
Cat. #	25360



Pocket tape measures and folding rules

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Pocket tape measures

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68-69 Quality criteria for folding rules

Folding rules

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STABILA®



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. 32 ft.



All about measuring tapes

Particular features indicating
the quality of the measuring
tape are:

1. The tape's composition.

For pocket tape measures, the tape's durability is an important factor: for this reason, most steel tapes are concave and have a resistant coating to protect the graduated scale from abrasion by particles of dirt.

2. The tape end.

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



Spikes hook

3. The casing.

Different materials are used to provide protection and easy, long-term safe handling. On pocket tape measures, the gripping area is often covered with soft rubber.

4. Useful additional functions increase the measuring tape's practicality:

for instance, buffers on the tape mouth, a tape return brake, a blade lock and a variety of end hooks.

STABILA pocket tape measures are equipped with the STABILA spikes hook which prevents the tape from slipping on smooth surfaces.





Pocket tape measure BM 40



Push brake



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



Rocker brake



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



Sophisticated professional case: shatter-proof plastic case with shock-absorbent softgrip cover—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, softgrip rubber coating, non-slip brake lever and secure belt clip. Complete with CE and metrology mark as well as EC type examination certificate. Accuracy class II. Belt clip.

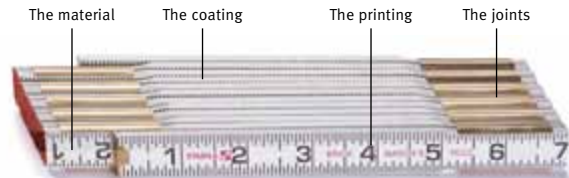
Length	16' Tape	27' Tape	33' Tape	5 m / 16' Tape	8 m / 27' Tape	10 m / 33' Tape
Cat. #	30316	30327	30333	30416	30427	30433

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 16' tape. Rocker brake on models with 27' and 33' blades.

Materials and coating

For wooden rules, the most important factor for optimum unbreakability is to use choice, well stored, highly elastic woods as the primary material. For plastic rules, glass fiber-reinforced plastic provides the greatest durability. The coating on the wooden rules must be able to handle every adversity. They are protected against damp, sun and mechanical abrasion. This is the only way to ensure the scale's good, long-term legibility.

Folding rules: Their quality is recognizable by



STABILA has a long tradition of only using choice, high-quality beech as the base material for its wooden rules. This makes the rules especially hard-wearing.



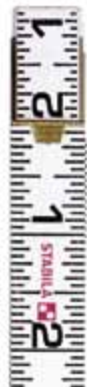
Our process of dipping the rules in an environmentally-friendly lacquer of our own formulation provides superb weatherproofing and resistance to abrasion.

The printing

A good quality rule can be recognized from the printing on its initial section. Look for three important points: the rule's accuracy classification, which is printed in Roman numerals, the EU pattern approval, which confirms its origin and construction, and not least the manufacturer's name, i. e. the brand.

The graduation scale

As the most important component the graduation scale must be printed clearly, showing a clear distinction between inch units.



The joints

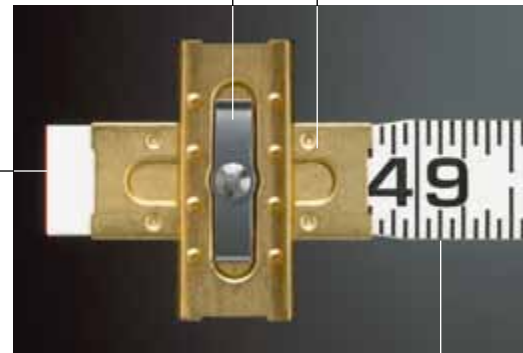
STABILA predominantly uses joints made from hardened spring steel, which ensure precise engagement and good spring action long-term. Catches and end cams provide strong retention, guaranteeing accuracy. Its special construction makes the joint operate smoothly over a long period. Highly durable glass fiber-reinforced polyamide joints are used on some models.

Construction of a joint with a concealed rivet

Sanded, dyed rule

Hardened steel spring

High quality steel plate joint with side tongues



Beechwood strip



High quality steel jointing plates with built-in steel springs and concealed rivets.

- Hardened steel springs and steel joints.
- Fully seated rivets with weather abrasion protection.
- Fiberglass reinforced.
- Premium beech wood segments.



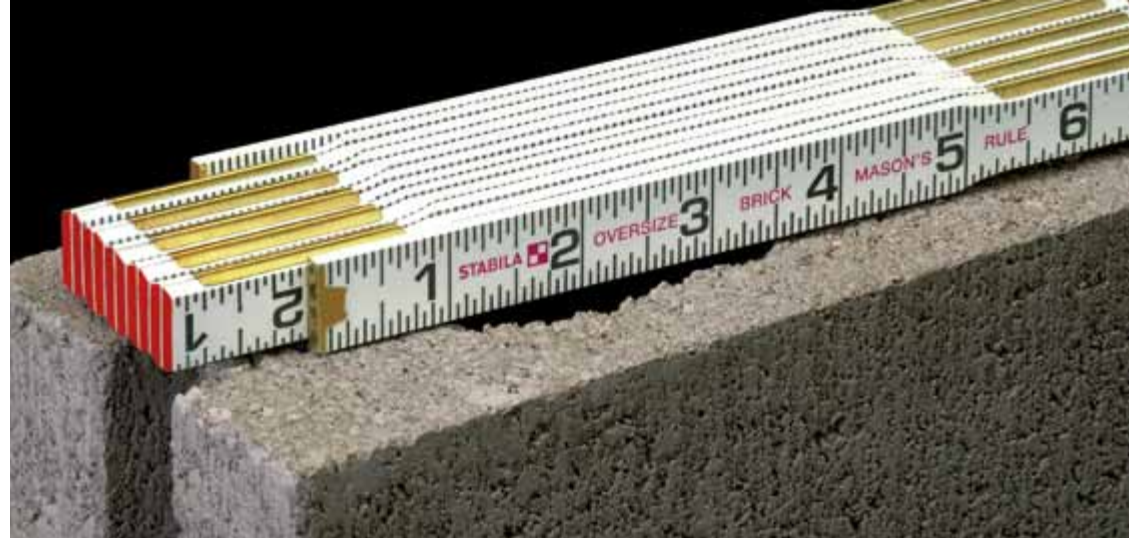
600 series folding rules

Type	Cat. #
Mason's	80001
Oversize	80005
Modular	80010
Engineer's	80015



Mason's

Engineer's

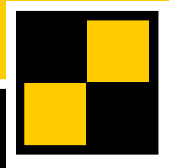


WARRANTY

SPIRIT LEVELS: STABILA spirit levels will maintain their stated accuracy for life. The vials on all STABILA Levels will not fog, leak or become inaccurate. If they do, you will be given a new level. Bent frames void warranty. Copy of receipt required.

LASER and TECH (Electronic) LEVELS: We will repair, without charge, any defects due to faulty materials or workmanship for two years from the date of purchase. Copy of receipt required.

ACCESSORIES: TAPE MEASURES, TRIPODS, CASES, GRADE RODS, Etc. 30 Day Warranty against manufacturer defects from the date of purchase. Copy of receipt required.



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