

STABILA®



How true pro's measure



STABILA rotation lasers:
Specialists in precise work over long distances.

Level large areas precisely.

Rotation lasers from STABILA measure at a very high degree of accuracy. Working together with the receiver, they are specialists in working over long distances. Rotation lasers offer great functionality

and are flexible in their use both indoors and outdoors. As all STABILA rotation lasers can also be operated using rechargeable batteries, they can be used at any time.



LAR 350



LAR 300



LAR 160



LAR 160 G



Highly accurate
Levelling accuracy
0.1 mm/m



Large working area
600–800 m



Waterproof and dustproof
IP 65



Can be used at any time
Optional:
Li-ion rechargeable battery

“Rotation lasers from STABILA increase the precision and quality of my work. They also achieve faster results.”



Florian Wilhelmy, master carpenter (from Neustadt, Germany)


The 26-year-old shared his thoughts with STABILA’s product management team during the product development of the LAR 160 G.

STABILA LAR 160 rotation laser

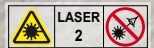
- Fully automatic, motor-driven rotation laser – high levelling accuracy of ± 0.1 mm/m, fast self-levelling within 20 seconds.
- Four laser functions for versatile use – horizontal and vertical rotation, plumb-line function and right angle (90°) in vertical operation.
- Protection class IP 65 – dustproof and waterproof.
- Shock-absorbent STABILA soft grip casing provides protection against impacts – the stable housing cover also protects the laser optics.
- Easy to use via three control buttons – on/off, tilt mode, manual mode.
- Battery drawer – easy replacement, even directly on the tripod.
- Large working area with REC 160 RG set receiver – up to 600 m in diameter.
- Two $5/8"$ threads integrated in the housing for horizontal and vertical use on a tripod.
- Stable carrying case for easy transport and safe storage.

NEW





Simply powerful – quick to set up.



Application examples

- In **bricklaying** – creating the levelling layer.
- In **reinforced concrete construction** – concreting foundations or constructing batter boards.
- In **metal construction** – aligning and positioning steel beams in industrial building construction.
- In **gardening and landscaping work** – laying out garden areas, paths and paving.
- In **carpentry and wood construction** – attaching façade cladding.
- In **civil engineering and pipeline construction** – installing pipelines.

LAR 160 G rotation laser with GREENBEAM technology

NEW



**Green
BEAM**



**A high-performance partner
for interior construction.**

Application examples

- For a wide range of tasks in **drywall construction**.
- Transfer heights quickly and easily in **electrical installation work**.
- Precise transfer of marking points during **plumbing work**.
- Transfer heights reliably in **joinery and installation work**.

- Fully automatic, motor-driven rotation laser – high levelling accuracy of ± 0.1 mm/m, fast self-levelling within 20 seconds.
- STABILA GREENBEAM technology for improved visibility of the rotating laser beam – green laser beams are four times more visible to the human eye than red beams.
- Four laser functions for versatile use – horizontal and vertical rotation, plumb-line function and right angle (90°) in vertical operation.
- Protection class IP 65 – dustproof and waterproof.
- Shock-absorbent STABILA soft grip casing provides protection against impacts – the stable housing cover also protects the laser optics.
- Easy to use via three control buttons – on/off, tilt mode, manual mode.
- Battery drawer – easy replacement, even directly on the tripod.
- Large working area with REC 160 RG set receiver – up to 600 m in diameter.
- Two 5/8" threads integrated in the housing.
- Stable carrying case.



LAR 350 rotation laser



Application examples

- In **bricklaying** – creating the levelling layer.
- In **reinforced concrete construction** – concreting foundations or constructing batter boards.
- In **metal construction** – aligning and positioning steel beams in industrial building construction.
- In **gardening and landscaping work** – laying out garden areas, paths and paving.
- In **carpentry** and wood construction – attaching façade cladding.
- In **civil engineering and pipeline construction** – installing pipelines.

2-axis inclinati



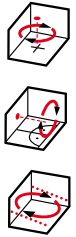
MOTION CONTROL
Innovative control solution



on sensor



Made in Germany



- Fully automatic, motor-driven rotation laser for horizontal and vertical applications as well as manual inclination in two axes.
- Innovative MOTION CONTROL – quick, reliable and convenient laser operation by rotating the remote control.
- DUAL SLOPE inclination function – inclination setting of up to 5° on two axes.
- SCAN function for working directly on the visible laser line.
- SECTION MODE – working area which can be limited as required in rotation mode. The laser beam is only emitted in a defined area.
- LED ASSIST system – for easy operation and safety in the workplace. Integrated LEDs indicate, for example, which axis is currently tilted or is being tilted.
- MANUAL ALIGNMENT function – pivoting an axis in vertical operation.
- Patented STABILA PROTECTOR system – perfect protection, even when the laser is dropped from a tripod at a height of up to 1.80 m.
- Waterproof and dustproof in accordance with protection class IP 65.
- Working area with a diameter of up to 800 m.

LAR 300 rotation laser

- Fully automatic motor-controlled rotation laser for horizontal applications.
- Ready for use straight away thanks to fast self-levelling within 10 seconds. Quality and precision, made in Germany.
- Extremely tough thanks to the STABILA PROTECTOR system – perfect protection, even when the laser is dropped from a tripod at a height of up to 1.80 m: just set up the tripod again, switch on and carry on measuring.
- Resistant to heat and cold from $-10\text{ }^{\circ}\text{C}$ to $+60\text{ }^{\circ}\text{C}$.
- Extremely easy to operate at just the touch of a button.
- Correct heights quickly – direct reading of deviations from the reference plane on the receiver display with millimetre accuracy.
- Receiver with visual and acoustic guidance as well as two displays.
- 5/8" thread for attaching to a tripod.
- Carrying case for easy transport.

Application examples

- In **bricklaying** – creating the levelling layer.
- In **reinforced concrete construction** – concreting foundations.
- In **carpentry and wood construction** – adjusting the height of the ring beam.
- In **civil engineering and pipeline construction** – for example, trenching.
- In **gardening and landscaping work** – laying out garden areas, paths and paving.



Made in
Germany



For horizontal outdoor
applications.





Protection on construction sites: **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.
(LAR 350, LAR 300)

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

The right set for every requirement



LAR 350, 9-piece set
 Art. No. 19111
 LAR 350 rotation laser,
 REC 300 Digital receiver,
 RC-LAR350 remote control,
 BST-S construction tripod,
 NL levelling rod, 90° angle rail,
 laser goggles, target plate,
 carrying case,
 2 x D 1.5 V batteries,
 4 x AA 1.5 V batteries



LAR 160, 5-piece set
 Art. No.: 19157
 LAR 160 rotation laser,
 REC 160 RG receiver,
 laser goggles, target plate,
 carrying case,
 2 x D 1.5 V batteries,
 2 x AA 1.5 V batteries



LAR 350, 7-piece set
 Art. No.: 19019
 LAR 350 rotation laser,
 REC 300 Digital receiver,
 RC-LAR350 remote control,
 90° angle rail, laser goggles,
 target plate, carrying case,
 2 x D 1.5 V batteries,
 4 x AA 1.5 V batteries



LAR 160, 7-piece set
 Art. No.: 19241
 LAR 160 rotation laser,
 REC 160 RG receiver,
 BST-S construction tripod,
 NL levelling rod,
 laser goggles, target plate,
 carrying case,
 2 x D 1.5 V batteries,
 2 x AA 1.5 V batteries



LAR 300, 3-piece set
 Art. No.: 19270
 LAR 300 rotation laser,
 REC 300 Digital receiver,
 carrying case,
 2 x D 1.5 V batteries,
 2 x AA 1.5 V batteries



LAR 160 G, 4-piece set
 Art. No.: 19240
 LAR 160 G rotation laser,
 REC 160 RG receiver,
 target plate, carrying case,
 2 x D 1.5 V batteries,
 2 x AA 1.5 V batteries

Optional accessories



REC 300 Digital
 Art. No.: 16957
 For rotation lasers with
 red laser beams.



REC 160 RG
 Art. No.: 19439
 For rotation lasers with
 red or green laser beams.



AE-LAR350
 Art. No.: 19036
 Li-ion rechargeable battery
 unit for LAR 350 and LAR 300
 lasers.



04/2020

AE-LAR160
 Art. No.: 19443
 Li-ion rechargeable battery
 unit for LAR 160 and
 LAR 160 G lasers.

Product comparison

	LAR 160 *	LAR 160 G *	LAR 300 *	LAR 350 *
Technical data				
Levelling accuracy	0.1 mm/m	0.1 mm/m	0.1 mm/m	0.1 mm/m
Working area with set receiver	Ø 600 m	Ø 600 m	Ø 800 m	Ø 800 m
Operating life	Approx. 40 hours	Approx. 20 hours	Approx. 80 hours	Approx. 80 hours
Laser class	2	2	2	2
Protective functions				
Protection class	IP 65	IP 65	IP 65	IP 65
STABILA PROTECTOR system	—	—	1.80 m Fall protection	1.80 m Fall protection
Equipment				
Receiver	REC 160 RG	REC 160 RG	REC 300 Digital	REC 300 Digital
Optional rechargeable batteries	AE-LAR160 battery unit	AE-LAR160 battery unit	AE-LAR350 battery unit	AE-LAR350 battery unit
90° angle rail	—	—	—	✓
Laser goggles	✓	—	—	✓
Target plate	✓	✓	—	✓
Carrying case	✓	✓	✓	✓
Batteries included	✓	✓	✓	✓
Special features				
	—	GREENBEAM technology	—	MOTION CONTROL
Laser functions				
	5	5	3	8
Plumb-line function	✓	✓	✓	✓
Rotation function, horizontal	✓	✓	✓	✓
Rotation function, vertical	✓	✓	✓	✓
Point function (alignment)	✓	✓	—	✓
Right angle (90°)	✓	✓	—	✓
Line function, horizontal (scan)	—	—	—	✓
Line function, vertical (scan)	—	—	—	✓
Inclination function	—	—	—	✓

* Compatible with commercially available machine controllers

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Good tools make for good work

Precise measurement is one of the most fundamental aspects of manual work. So it's 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 exactly this calibre. And has done so since 1889.



See all products at
www.stabila.com



Our technical support team will assist you with all questions relating to product selection and use: Call +49 6346 309-0 or send an e-mail to info@stabila.de. Errors or changes in colour, technology and equipment excepted.