

Leica Rugby 880 & 870

Ultimate grade reliability
and accuracy



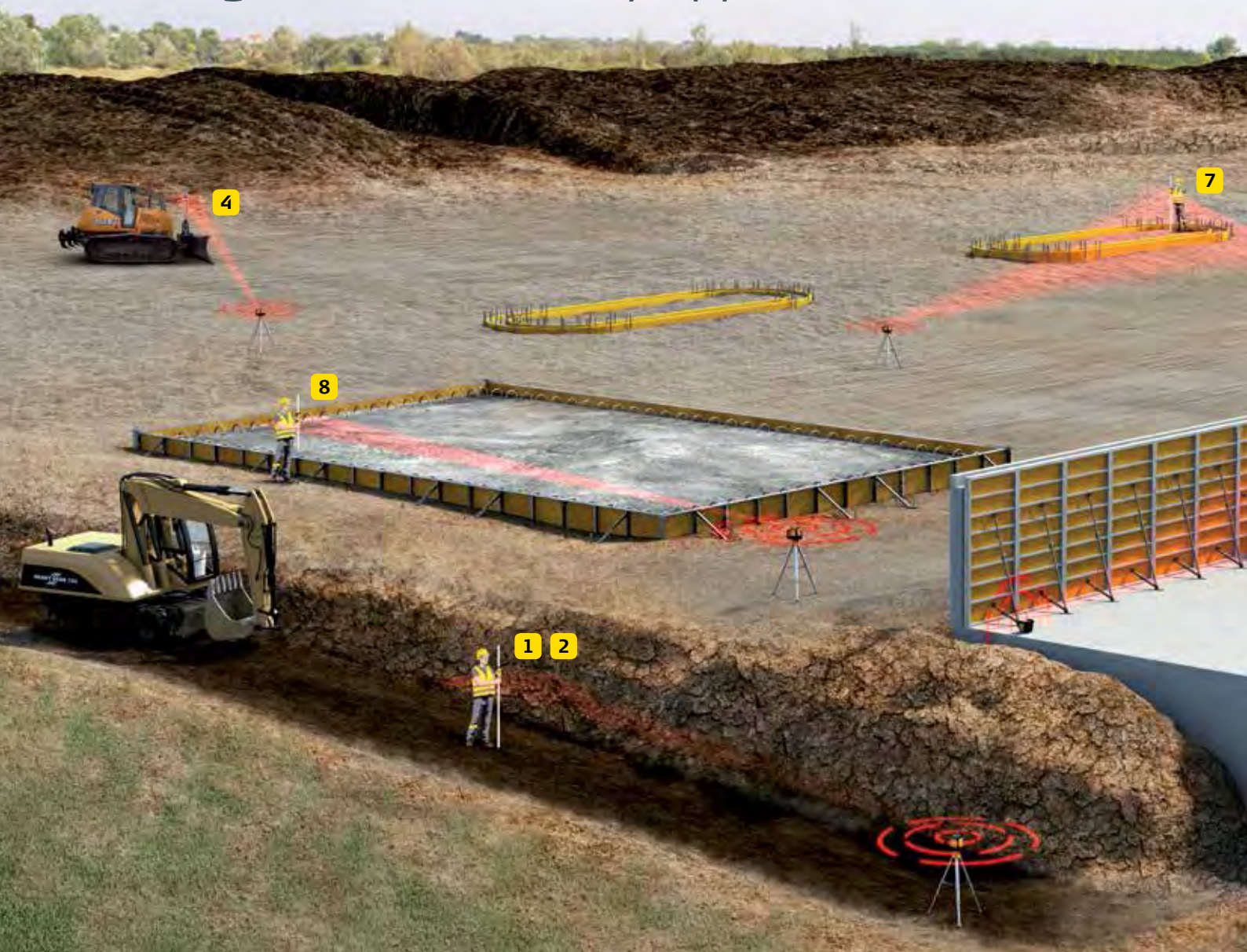
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Leica Rugby 880 & 870

The right laser for every application on site



- 1 Grade checking**
Easily and reliably check grades



- 4 Site Preparation**
Automated machine control systems for slope and flat work



- 2 Slopes for ramps and driveways**
Automatic grade control input with the Rugby's easy-to-use interface



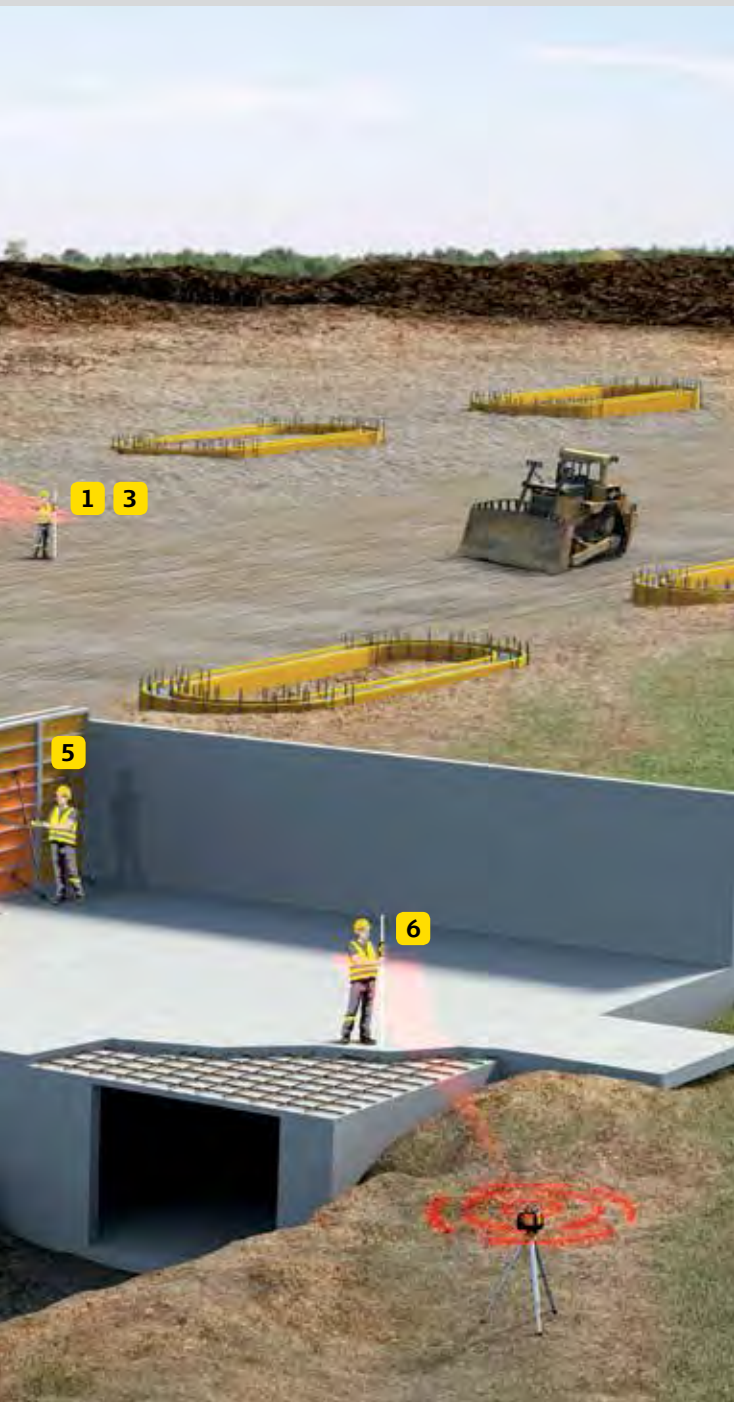
- 5 Formwork verticality**
Vertical alignment of forms is accomplished easily with the Rugby 880



- 3 Parking areas**
Single and dual slopes ensure proper drainage from parking areas



- 6 Concrete pours**
Check the height of the concrete and use the digital readout for clear indication of the offset



Which tool is the right one for me?



Function/Feature	Rugby 880	Rugby 870
Operating range (diameter)	Up to 1300m	Up to 1300m
 Single axis	●	●
 Dual axis	●	○
 Machine control	●	●
 Horizontal levelling	●	●
 Vertical aligning	●	○
 Axis Alignment	●	●
 Smart Lock	●	●
 Smart Targeting	●	●
 Automatic Calibration	●	●
  IP 68 / MIL-STD	●	●
 Li-Ion battery	●	●
 Remote control	●	●



- 7 Parking islands**
Set the forms for parking areas to match the job site requirements



- 8 Formwork levelling**
Transfer reference height to level formwork

Leica Rugby 880 & 870

Ultimate grade reliability and accuracy

The professional, fully automatic grade lasers you can always trust

Rugby 880

Dual grade laser



Rugby 870

Single grade laser



Application flexibility



Efficient grade setup

Reliability anytime

Work accurately under any conditions:

- The Leica Rugby are the only lasers in the market that guarantee a continuous high laser accuracy, even under harsh site conditions
- Each laser has been tested according to the standard for constant accuracy and is delivered with the official calibration certificate
- The smart Li-Ion battery assures longer working times and faster charging

Application flexibility

Increase your productivity and application flexibility:

- The versatile remote control, Leica RC800 adds convenience when grade changes are required
- Where more accurate setups are necessary, the axis alignment function automatically aligns the laser axes to the position of grade stakes

Efficient grade setup

Grade setup has never been easier! Get right to work with the Leica Rugby 880 and 870 lasers:

- Intuitive interface and large display gives you confidence that the dial-in grades are as quick and mistake-free, as are your slope applications
- Save time on preparation and setup



Reliable grade control

Lowest cost of ownership

Leica Geosystems offers unmatched warranty concept for Rugby 880 and 870:

- PROTECT by Leica Geosystems includes a Lifetime Manufacturer's Warranty, a 5 year No Cost period and a 2 year Knockdown Warranty
- Heavy duty and rugged laser, sealed to the IP 68 MIL-STD specifications
- Long-lasting Li-Ion battery
- Local service support worldwide

Remote control and laser receivers



Leica RC800 Remote Control

- Know the status of the laser up to 300 m with the Leica RC800 remote control
- Use it when the laser is inaccessible



Leica Rod Eye 180 Digital RF

- Top of the range receiver with integrated radio remote functionality, digital readout, half millimetre accuracy and strobe rejection
- Intelligence inside with Laserman:
 - Align automatically axes of the Rugby to the receiver (Axis Alignment)
 - Easily calibrate the Rugby 880 and 870 using the receiver (Auto Calibration)
 - Let the receiver align the laser plane for you (Smart Targeting)
 - Monitor and correct the laser plane in real-time (Smart Lock)



Leica Rod Eye 160 Digital

- Rod Eye 160 is a professional receiver with digital readout, half millimetre accuracy and strobe rejection
- Capture digital readout for convenient height readings

Leica Rod Eye 140 Classic

- With the built-in 12 cm detection window you can easily detect the beam over the entire distance

PROTECT by Leica Geosystems

We always protect your success!



In addition to comprehensive technical knowledge, thinking holistically about the needs and requirements of our customers has the highest priority at Leica Geosystems. Close cooperation with practical professionals leads to user-friendly products that fulfil the customers' expectations perfectly.

Our products provide a high level of reliability, accuracy and robustness – even under the roughest jobsite conditions. They increase the productivity and success of our customers. With PROTECT by Leica Geosystems we offer a best-in-class service where customers can count on us, anytime, anywhere.

Lifetime Manufacturer's Warranty

Our promise – your peace of mind

The lifetime warranty guarantees the quality and reliability of our products. However, should a device fail because of defects in material or workmanship, we will repair or replace it free of charge.

5 year No Cost period

An all-round service from the specialists

*Register your Leica Rugby within 8 weeks from the purchase date under <http://myworld.leica-geosystems.com> and extend this exclusive service from two to five years.

The 2 year Knockdown warranty offers you even more protection. If your Leica Rugby accidentally topples over on a jobsite, Leica Geosystems covers the repair costs for the integrated self-levelling system.

PROTECT is subject to Leica Geosystems International Limited Warranty and PROTECT General Terms & Conditions set out under www.leica-geosystems.com/protect.

Certified Quality

Assured reliability

The Leica Rugbys are calibrated and tested according to ISO 17123-6. As a result, you can rely on the continuous high accuracy of your lasers, even under harsh site conditions. A Leica Rugby delivers what is promised!



Swiss Technology

Innovative products and first-class quality

Our devices are manufactured all over the world in state-of-the-art production centres, where Swiss precision, extraordinary craftsmanship and cutting-edge technology go hand-in-hand. Continuous and extensive tests throughout all stages of development and production ensure our products meet the highest standards for precision and quality.

Technical Data

Leica Rugby 880 & 870



Rugby 880



Rugby 870

Self-levelling	Horizontal/Vertical	Horizontal
Grade capability	±15% in either axis ±10% and ±3% in both axes	±15%
Self-levelling accuracy	±1.5 mm at 30 m	
Operating range (diameter)	1300 m	
Remote range (diameter)	600 m	
Self-levelling range	±6°	
Rotation speed	5, 10 rps	
Laser class	Visible/635 nm, Class 1	
Environmental standard	IP68/MIL Standard 810G	
Batteries Alkaline/Li-Ion	60 h/45 h @ 20°C	
Smart Technology	Grade match, monitoring, axis alignment, auto calibration	



Rod Eye 140



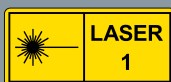
Rod Eye 160



Rod Eye 180

Technical Data Rod Eye receivers

Receiver type	Classic	Digital	Digital RF
Range with 880/870	1350 m		
Detection window	120 mm		
Arrow display	Nine channels	Fifteen channels	
Detection accuracies	Fine ±1 mm Medium ±2 mm Coarse ±3 mm	Very Fine ±0.5 mm Fine ±1 mm Medium ±2 mm Coarse ±3 mm Very Coarse ±5 mm	
Audio volumes	Hi/Low/Off	Hi/Med/Low/Off	
LED Display	Yes		
Anti-strobe protection	Yes		
Environmental standard	IP67		



Laser class 1 product
in accordance with
IEC 60825-1 (2014-05)

Leica Geosystems intelligent CONstruction

Enhancing your performance

iCONstruct

Intelligent rotating lasers combined with unique accessories provide unbeatable application performance.

- Rugged and robust
- Versatile
- Reliable
- Interchangeable



iCONtroll

Providing you with an efficient portfolio of rotating lasers that communicate with your machine receivers.

- High performance and precision for long range levelling
- Reliable and seamless receiver communication



iCONSult

A global sales and support network, providing advice on intelligent CONstruction solutions to grow your business.

- Offering a best-in-class service with PROTECT by Leica Geosystems
- Personal service
- Professional consultancy



iCONnect

Seamlessly integrate your rotating lasers with other intelligent construction products and solutions.

- Monitor and correct the laser plane in real-time
- Real-time data guarantees accurate jobs
- No downtime
- High productivity



iCON
intelligent CONstruction