Leica Rugby 880 & 870
The right laser for every application on site

1. **Grade checking**
   Easily and reliably check grades

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

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

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

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

6. **Concrete pours**
   Check the height of the concrete and use the digital readout for clear indication of the offset
7 Parking islands
Set the forms for parking areas to match the job site requirements

8 Formwork levelling
Transfer reference height to level formwork

Which tool is the right one for me?

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

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

Application flexibility
Efficient grade setup
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

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**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

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**Reliable grade control**
PROTECT by Leica Geosystems
We always protect your success!

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.

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.

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

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.
**Technical Data**

**Leica Rugby 880 & 870**

<table>
<thead>
<tr>
<th>Rugby 880</th>
<th>Rugby 870</th>
</tr>
</thead>
<tbody>
<tr>
<td>Self-levelling</td>
<td>Horizontal / Vertical</td>
</tr>
<tr>
<td>Grade capability</td>
<td>± 15% in either axis</td>
</tr>
<tr>
<td>± 10% and ± 3% in both axes</td>
<td></td>
</tr>
<tr>
<td>Self-levelling accuracy</td>
<td>± 1.5 mm at 30 m</td>
</tr>
<tr>
<td>Operating range (diameter)</td>
<td>1300 m</td>
</tr>
<tr>
<td>Remote range (diameter)</td>
<td>600 m</td>
</tr>
<tr>
<td>Self-levelling range</td>
<td>± 6°</td>
</tr>
<tr>
<td>Rotation speed</td>
<td>5, 10 rps</td>
</tr>
<tr>
<td>Laser class</td>
<td>Visible / 635 nm, Class 1</td>
</tr>
<tr>
<td>Environmental standard</td>
<td>IP68 / MIL Standard 810G</td>
</tr>
<tr>
<td>Batteries</td>
<td>Alkaline / Li-Ion 60 h / 45 h @ 20 °C</td>
</tr>
<tr>
<td>Smart Technology</td>
<td>Grade match, monitoring, axis alignment, auto calibration</td>
</tr>
</tbody>
</table>

**Technical Data**

**Rod Eye receivers**

<table>
<thead>
<tr>
<th>Rod Eye 140</th>
<th>Rod Eye 160</th>
<th>Rod Eye 180</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receiver type</td>
<td>Classic</td>
<td>Digital</td>
</tr>
<tr>
<td>Range with 880 / 870</td>
<td>1350 m</td>
<td></td>
</tr>
<tr>
<td>Detection window</td>
<td>120 mm</td>
<td></td>
</tr>
<tr>
<td>Arrow display</td>
<td>Nine channels</td>
<td>Fifteen channels</td>
</tr>
<tr>
<td>Detection accuracies</td>
<td>Fine ± 1 mm</td>
<td>Very Fine ± 0.5 mm</td>
</tr>
<tr>
<td></td>
<td>Medium ± 2 mm</td>
<td>Fine ± 1 mm</td>
</tr>
<tr>
<td></td>
<td>Coarse ± 3 mm</td>
<td>Medium ± 2 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Coarse ± 3 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Very Coarse ± 5 mm</td>
</tr>
<tr>
<td>Audio volumes</td>
<td>Hi / Low / Off</td>
<td>Hi / Med / Low / Off</td>
</tr>
<tr>
<td>LED Display</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Anti-strobe protection</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Environmental standard</td>
<td>IP67</td>
<td></td>
</tr>
</tbody>
</table>

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**Leica Geosystems**

**intelligent CONstruction**

Enhancing your performance

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**iCONstruct**

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

- Rugged and robust
- Versatile
- Reliable
- Interchangeable

**iCONtrol**

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

- High performance and precision for long range leveling
- 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
Tools for Pro by Leica Geosystems
Mastering your jobsite challenges

- **PROTECT by Leica Geosystems** – Benefit from an instant access to PROTECT best-in-class service offering and equip your Leica Rugby with an extended No Cost period straight from your smartphone or tablet
- **Sales & Service Locator** – Find the nearest Leica Geosystems’ Dealers and Service Centers to your current location within seconds
- **Product Catalogue** – Selecting the right products to your jobsite applications is now simply at your fingertips
- **News alerts** – Innovations & technological breakthroughs can no more be missed!
- **Leica DISTO™ sketch** – Speed up your measuring workflow by professional documentation

For more information, visit www.leica-geosystems.com/toolsforpro

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