

Leica Rugby 810, 820, 830 & 840

The toughest construction lasers on site



SITE PROOF
by Leica Geosystems

Leica Rugby

The toughest construction lasers on site

Leica Rugby construction lasers are more than just a product, they are an intelligent, versatile, clever solution that significantly enhance your application performance. The Rugby lasers are an integrated part of the Leica Geosystems intelligent **CON**struction portfolio, providing a comprehensive solution for our customers.



Laserman button triggers the Smart Targeting feature

Perform applications easier and faster than ever before – no mistakes possible!

- **Smart Targeting:** Automatically align your laser plane at the touch of a button – horizontal, vertical and dual axis
- **Smart Lock:** Monitor and correct the laser plane in real-time avoiding costly mistakes, any movement of the laser plane will be detected



Unique power concept

Unbeatable versatility – power and charge anywhere, anytime!

- Intelligent and rugged Li-Ion battery concept
- Interchangeable battery packs throughout the new Leica Rugby family (Alkaline and Li-Ion)
- Run and charge anywhere – in the car, from a 12v battery or from a generator with external battery as a buffer





reddot design award
winner 2013



Toughest laser in the market

Site proof design – rugged and robust housing provides reliable application performance even in the harshest jobsite conditions.



- IP 68 protected (water proof to 1m (3') depth) and the only laser in the market with Military Grade Certification, the highest standard in water and dust protection!
- Quality you can trust – Lifetime manufacturer's warranty, 5 years no cost period and 2 years knockdown warranty
- Maximum Temperature Stability – guaranteed highest accuracy across the entire operating temperature range, providing the perfect solution in all conditions



Intelligent, versatile, clever – it's more than just a laser!

Intelligent laser systems combined with unique accessories provide unbeatable application performance.

- Plug and play on site with clever accessories throughout the Leica Rugby family
- Operate and charge your laser at the same time using the solar panel – use the carry case and integrated bag to position the solar panel towards the sun



Leica Rugby

Fit, fast, tough – select the best player for your site

Rugby 800 Series lasers level, align and square much quicker than ever before, eliminating costly errors and downtime.

Leica Rugby 810



Leveling made easy

- Simple and reliable, one button laser where no mistakes are possible
- Single axis slopes up to 45° with optional manual slope adapter
- High application performance with Leica Rod Eye 140 – with the built-in 5 inch detection window, you can easily detect the beam over the entire distance



Leica Rugby 820



Tough as concrete – unbeatable with slopes

- Carry out concrete forming, pad placement and framework leveling; setting foundations and footings has never been more efficient
- Automatic slope in single or dual-axis with the Leica Rod Eye 180 RF receiver by using the Smart Targeting and Smart Lock functionality
- Set in manual operation up to 10% in single or dual-axis





Keeps working when others stop

- Achieve the highest performance and precision, specifically for long range leveling applications in general construction and machine control up to 1.350 m (4.430 ft) and up to 60°C (140°F)
- No downtime with our solar panel – power and charge anywhere, anytime
- For applications that require a slope, set in manual operation up to 10% in single or dual-axis
- Maximum Temperature Stability – guaranteed highest accuracy across the entire operating temperature range



Leica Rugby 830



The laser that tackles it all

- Highest application performance for any leveling, aligning and squaring applications on site
- **Smart Targeting:** Tie-in slopes in single or dual axis and automatically align – fast and easy, at the touch of a button
- **Smart Lock:** Monitor and correct the laser plane in real-time, always ensuring reliable results
- Complete application solution in one case, with Leica Rod Eye 180 RF remote receiver and RC400 remote control

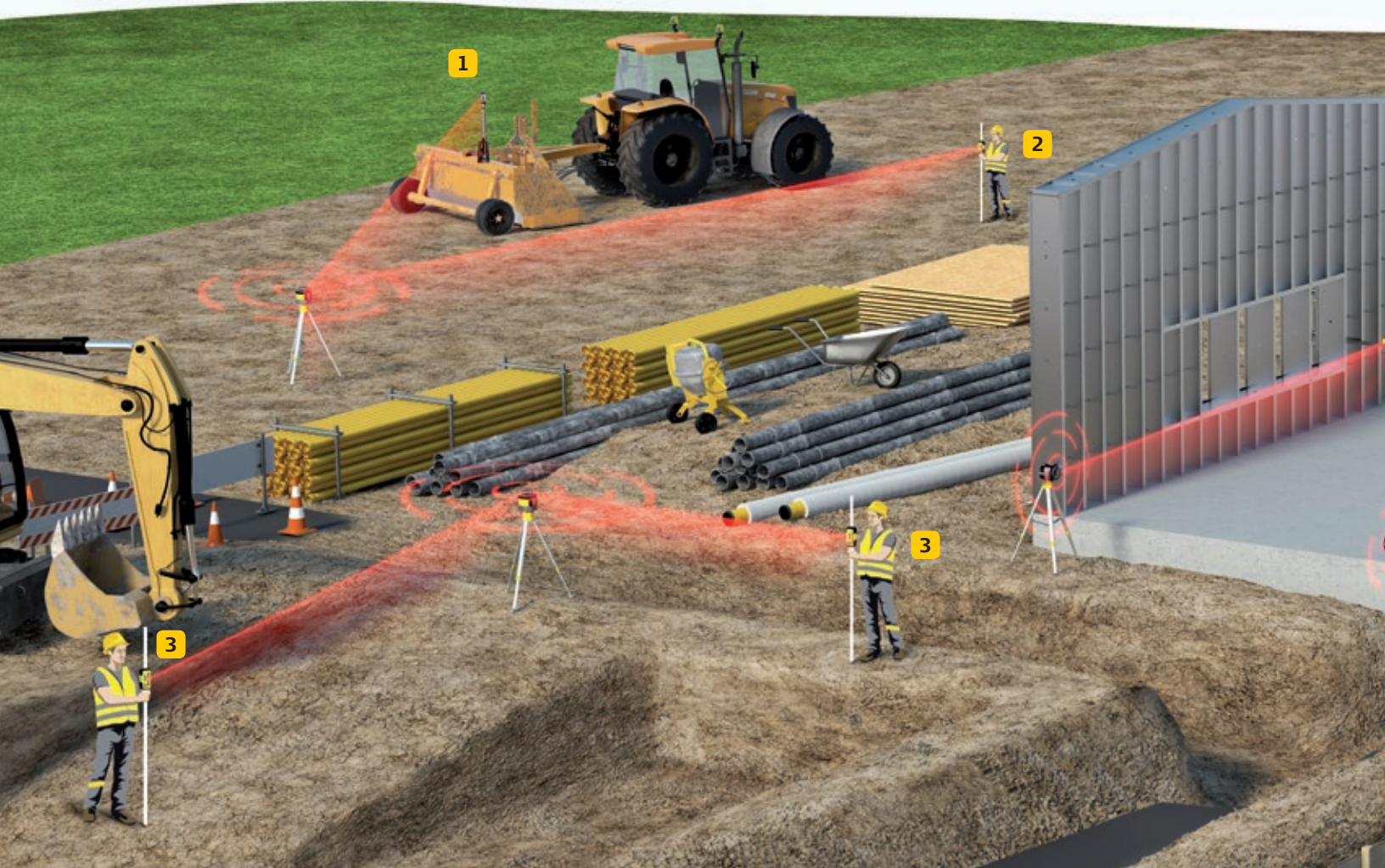


Leica Rugby 840



Leica Rugby

The right team for every application on site



- 1 Land leveling**
Full system for agricultural land leveling with the best results.



- 2 Grade checking**
Easily and reliably check grades over long distances.



- 3 Slopes for ramps and driveways**
Automatically tie-in slopes in single and dual axis using Smart Targeting.



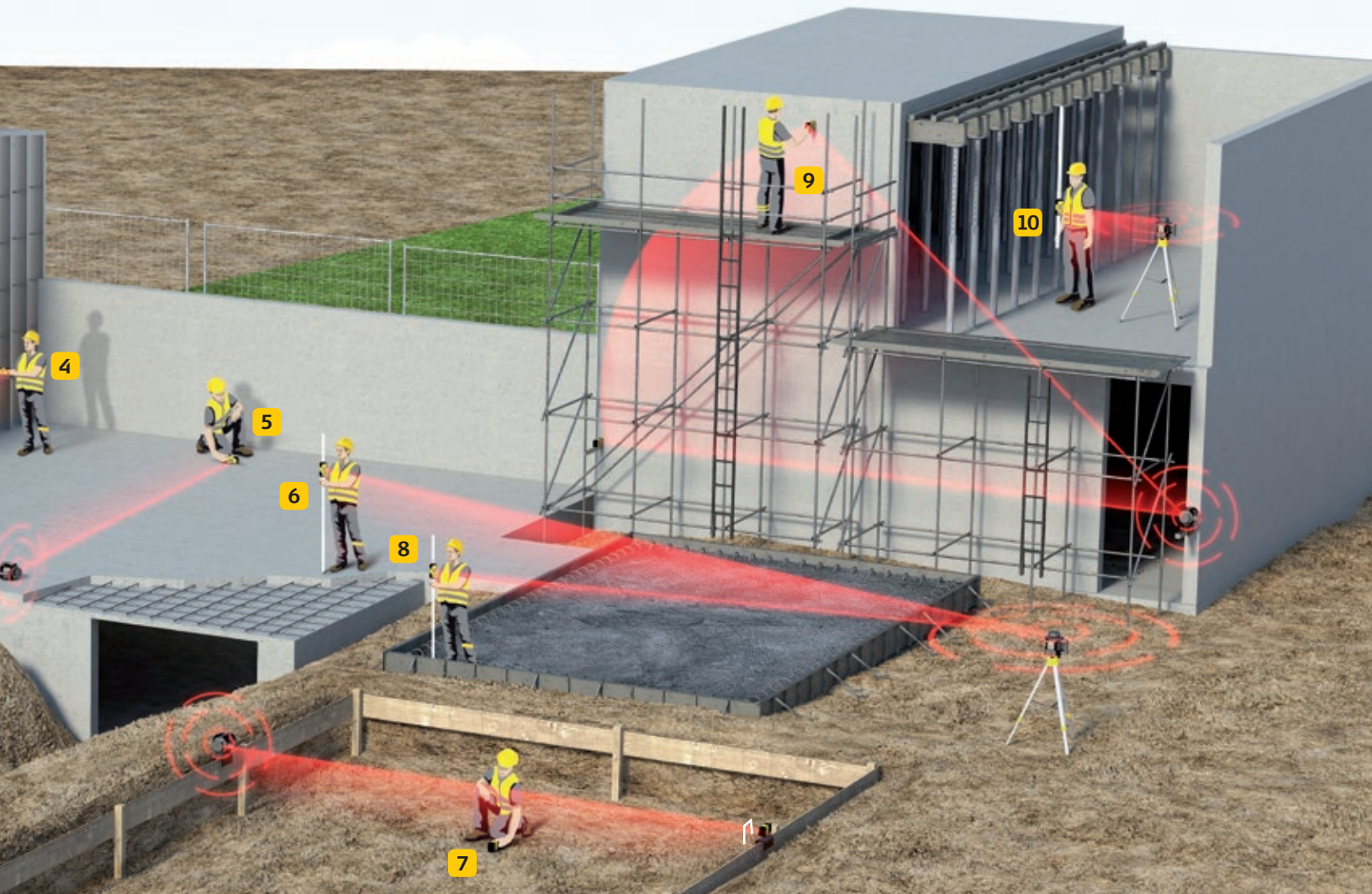
- 4 Formwork verticality**
Automatically align parallel to the reference with Smart Targeting and check plumb of formwork.



- 5 Set-out walls**
Automatically align two points with Smart Targeting and mark position of wall/formwork.



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



- 7 Batter board**
Align batter board markings and set-out building axis.



- 8 Formwork leveling**
Transfer reference height and level formwork.



- 9 Facade alignment**
Align fixings for facade over the entire plane.



- 10 Level decks and slabs**
Level decks and slabs easily and efficiently. Digital readout provides clear indication of offset.



Leica Rugby Accessories

The Leica Rod Eye family of receivers and accessories offer solutions for any construction application. The Rod Master feature in each Rod Eye indicates if the battery of the Rugby laser is low. They are engineered to the highest standard and work seamlessly with the Leica Rugby laser portfolio.

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, enabling the Smart Targeting functionality:
 - Automatically align your laser plane at the touch of a button - horizontal, vertical and dual axis
 - Monitor and correct the laser plane in real-time using Smart Lock functionality



Leica Rod Eye 160 Digital



- Professional receiver with digital readout, half millimetre accuracy and strobe rejection
- Capture digital readout for convenient height readings

Leica Rod Eye 140 Classic



- High application performance with Leica Rod Eye 140 - with the built-in 5 inch detection window you can easily detect the beam over the entire distance

Plug and play - perfect application set-up with clever accessories



A220 Batter Board clamp and adapter: provides a simple, string free set-up on batter boards. When not in use, the 90° receiver adapter attaches to the main clamp for easy storage.













A240 Manual Slope adapter: up to 90° slope possibility in one axis using the Leica Rugby in manual mode.






A280 Facade adapter: enables an easy and practical set-up for all facade installations. The kit consists of two adapter brackets and a batter board clamp with the 90° receiver adapter.

Technical Specifications

| |  |  |  |  |
|--|---|---|---|---|
| Technical data | Rugby 810 | Rugby 820 | Rugby 830 | Rugby 840 |
| H.I. (Height of Instrument or elevation alert) | Preventing errors due to sudden shifting or movement of the instrument or tripod | | | |
| Functionality | Self-leveling horizontal, single manual slope (with slope adapter) | Self-leveling horizontal & manual slope in dual axis | Self-leveling horizontal & manual slope in dual axis | Self-leveling horizontal, vertical, 90° and manual slope in dual axis |
| Smart Targeting | - |  | - |  |
| Smart Lock | - |  | - |  |
| Maximum Temperature Stability | - | - |  | - |
| Operating range (diameter) | 1.100 m (3.600 ft) | 1.100 m (3.600 ft) | 1.350 m (4.430 ft) | 700 m (2.300 ft) |
| Self-leveling accuracy* | ± 1.5 mm at 30 m (± 1/16" at 100 ft) | | | |
| Self-leveling range | ± 6° | | | |
| Rotation speed | 10 rps | 10 rps | 10 rps | 0, 2, 5, 10 rps |
| Scanning modes | - | - | - | 10°, 45°, 90° |
| Laser diode type / class | 635 nm (visible) / Class 2 | | | |
| Dimensions (H x W x D) | 235 x 238 x 190 mm (9.2 x 9.4 x 7.5 in) | | | |
| Weight with batteries | 3.0 kg (6.6 lbs) | | | |
| Batteries (alkaline/rechargeable) | Four D-cells / Li-Ion pack | | | |
| Battery life** (alkaline/rechargeable) | 60 hours / 50 hours @ 20°C | | | |
| Extended operating temperature | -20° to +50°C (-4° to +122°F) | -20° to +50°C (-4° to +122°F) | -20° to +60°C (-4° to +142°F) | -20° to +50°C (-4° to +122°F) |
| Storage temperature | -40° to +70°C (-40° to +158°F) | | | |
| Environmental standard | IP 68 - water proof to 1m depth | | | |
| RC400 remote control |  | | | |
| Operating range (diameter) | - | - | - | 200 m (650 ft) |

Laser Receivers

| |  |  |  |
|---------------------------|---|--|---|
| Technical data | Rod Eye 140 Classic | Rod Eye 160 Digital | Rod Eye 180 Digital RF |
| Rod Master | Available | | |
| Working diameter | 1.350 m (4.430 ft) | 1.350 m (4.430 ft) | 1.350 m (4.430 ft) |
| Extended detection window | 120 mm / 5 in | 120 mm / 5 in | 120 mm / 5 in |
| Numeric readout height | - | 90 mm / 3.5 in | 90 mm / 3.5 in |
| Detectable spectrum | 600 nm to 800 nm | 600 nm to 800 nm | 600 nm to 800 nm |
| Detection accuracies | | | |
| Ultra fine | - | ± 0.5 mm / ± 0.02 in | ± 0.5 mm / ± 0.02 in |
| Super fine | ± 1.0 mm / ± 0.04 in | ± 1.0 mm / ± 0.04 in | ± 1.0 mm / ± 0.04 in |
| Fine | ± 2.0 mm / ± 0.08 in | ± 2.0 mm / ± 0.08 in | ± 2.0 mm / ± 0.08 in |
| Medium | ± 3.0 mm / ± 0.12 in | ± 3.0 mm / ± 0.12 in | ± 3.0 mm / ± 0.12 in |
| Coarse | - | ± 5.0 mm / ± 0.20 in | ± 5.0 mm / ± 0.20 in |

* Accuracy is defined at 25°C (77°F) ** Battery life is dependent upon environmental conditions

PROTECT by Leica Geosystems

Guaranteed reliability for the toughest construction lasers

Lifetime Warranty
5 Years No Cost
2 Years Knockdown



Leica Rugby construction lasers get the job done, anywhere, anytime, providing reliability and accuracy even in harshest jobsite conditions. Our products are built to last. We offer a Lifetime Manufacturer's Warranty, 5 Years No Cost Period* and a 2 Year Knockdown Warranty.

For more information, please visit our website or contact your local Leica Geosystems representative.

* 5 Year No Cost applies to Leica Rugby 810, Leica Rugby 820, Leica Rugby 830, Leica Rugby 840, Leica Rugby 260SG, Leica Rugby 270SG & Leica Rugby 280DG.

| | | | |
|---|---------------------------------------|---|---------------------|
|  | PROTECT by Leica Geosystems |  | |
| Lifetime Warranty | 5 Years No Cost | Certified Quality | Swiss Technology |



Leica Geosystems intelligent CONstruction

Enhancing your performance

Fully understanding construction carried us beyond the ordinary. The Leica Rugby products are an integrated part of the Leica Geosystems intelligent CONstruction portfolio, enabling you to enhance your performance and increase your profitability through perfecting your construction workflow.

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

icon
intelligent construction

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

Understanding construction.



Whether you have to precisely lay out a construction site, perform control measurements, collect height and angle data, align concrete forms, install ceilings and partitions, lay gravity flow pipe, locate underground services or complete site preparation and earthworks – Leica Geosystems offers the right instrument, construction laser or machine control installation specifically designed for your construction application.

Easy-to-use, jobsite-tough, accurate and reliable – Leica Geosystems instruments and lasers ensure the efficient use of your materials and resources. High-quality products, such as optical and electronic levels, construction lasers, total stations and machine automation systems, provide fast results, keep you working and increase your profitability.

When it has to be right.



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Leica Rugby 810, 820, 830 & 840:
 Laser class 2 in accordance
 with IEC 60825-1
 resp. EN 60825-1



Leica DISTO™
 Brochure



**Leica iCON
 build**
 Brochure



**PROTECT by
 Leica Geosystems**
 Brochure



**Leica Piper
 100/200**
 Brochure



**Leica Builder
 Series**
 Brochure

For more information on Leica Rugby products and services, please visit:
www.leica-geosystems.com