Leica Rugby 810, 820, 830 & 840

The toughest construction lasers on site





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.





Outstanding application performance with Laserman

Perform applications easier and faster

- Smart Targeting: Automatically align your laser plane at the 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







Unbeatable versatility – power and charge anywhere, anytime!

- Intelligent and rugged Li-lon battery
- Interchangeable battery packs
- out in the sun with the solar panel





Toughest laser in the market

Site proof design – rugged and robust housing provides reliable



- IP 68 protected and the only
- 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

- Plug and play on site with clever
- 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







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

Leica Rugby lasers are the toughest rotating lasers in construction. Level, align and square much quicker than ever before, eliminating costly errors and downtime.

Leica Rugby 810



Levelling made easy

- where no mistakes are possible
- Single axis slopes up to 45° with
- Rod Eye 140 with the built-in 12 cm



Leica Rugby 820

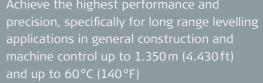


Tough as concrete - unbeatable with slopes

- Carry out concrete forming, pad placement and framework levelling; setting foundations and footings has
- with the Leica Rod Eye 180 RF receiver



Keeps working when others stop



Maximum Temperature Stability – guaranteed highest accuracy across the



Leica Rugby 830



The laser that tackles it all



and easy, at the touch of a button Smart Lock: Monitor and correct the

reliable results

case, with Leica Rod Eye 180 RF remote receiver and RC400 remote control



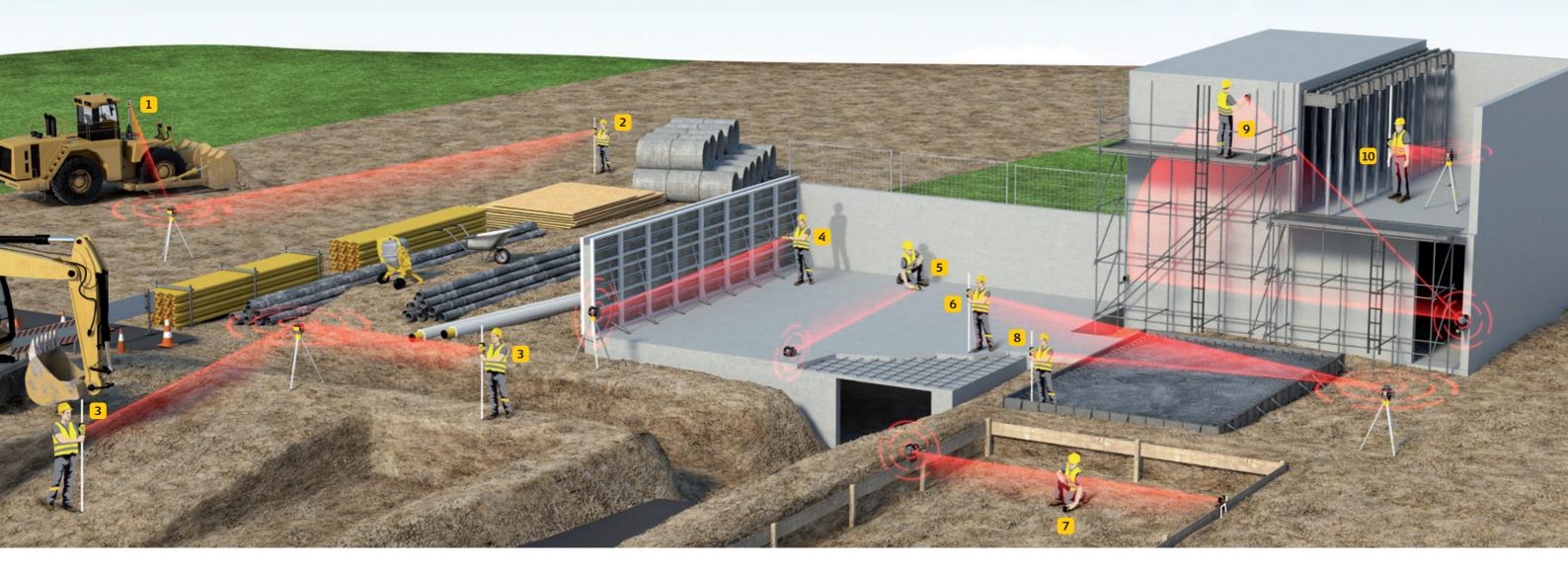








The right team for every application on site





Land levelling

Full system for agricultural land levelling operating dozers with the best results.



Grade checking

Easy and reliable grade checks over long distances.



Slopes for ramps and driveways

Automatically tie-in slopes in single and dual axis using Smart Targeting.



Vertical alignment of formwork

Automatically align parallel to the reference with Smart Targeting and check plumb of formwork.



Set-out walls

Automatically align two points with Smart Targeting and mark position of wall/formwork.



Concrete pouring

Check height of concrete and use digital readout for clear indication of offset.



Batter board

Align batter board markings and set-out building axis.

Transfer reference height and level



Level decks and slabs

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



Facade alignment

formwork.

Formwork levelling

Align fixings for facade over the entire plane.



Accessories

The Leica Rod Eye family of receivers and accessories offers solutions for any general construction and interior application. They are engineered to the highest standard and work seamlessly with the Leica Rugby laser portfolio.





Technical Specifications

		匝		回
		88	Så	© 0 (m)
Technical data	Rugby 810	Rugby 820	Rugby 830	Rugby 840
Functionality	Self-levelling horizontal,	Self-levelling horizontal	Self-levelling horizontal	Self-levelling horizontal,
	single manual slope (with slope adapter)	& manual slope in dual axis	& manual slope in dual axis	vertical, 90° and manual slope in dual axis
Smart Targeting		# .	-	# .
Smart Lock		Smart Targeting		Smart Targeting
Maximum Temperature Stability		-		
Operating range (diameter)	800 m (2.600 ft)	800 m (2.600 ft)	1.350 m (4.430 ft)	700 m (2.300 ft)
Self-levelling accuracy*	± 1.5 mm at 30 m (± 1/16" at 100 ft)			
Self-levelling 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 × W × D)	235×238×190 mm (9.2×9.4×7.5 in)			
Weight with batteries	3.0 kg (6.6 lbs)			
Batteries (alkaline/rechargeable)	Four D-cells / Li-lon pack			
Battery life** (alkaline/rechargeable)	60 hours / 45 hours @ 20°C			
Extended operating temperature	−20° to +50° € (-4° to +122° F)	-20° to +50° C (-4° to +122° F)	-20° to +60° C (-4° to +122° F)	-20° to +50° C (-4° to +122° F)
Storage temperature	-40° to +70°C (-40° to +158°F)			
Environmental standard	IP68			
RC400 remote control				
Operating range (diameter)	-	-	-	200 m (650 ft)
* Accuracy is defined at 25°C (77	°F) ** Battery life is depend	dent upon environmental con	ditions	
Laser				
Receivers	ECC	goo		Smart Targeting
Technical data	Rod Eye 140 Class	ic Rod Eye 1	60 Digital Ro	od Eye 180 Digital RF
Working diameter	1.350 m (4.430 ft)	1.350 m		1.350 m (4.430 ft)
Extended detection window	120 mm / 5 in	120 mr	m / 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 t	o 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 ii			± 1.0 mm / ± 0.04 in
Fine	± 2.0 mm / ± 0.08 ii			± 2.0 mm / ± 0.08 in
Medium	± 3.0 mm / ± 0.12 ir	n ± 3.0 mm	/+012in	± 3.0 mm / ± 0.12 in
				± 5.0 mm / ± 0.20 in

8

PROTECT by Leica Geosystems

Guaranteed reliability for the toughest construction lasers



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.

Register your product within 8 weeks from the purchase date at: www.leica-geosystems.com/registration and extend your no cost period to 5 years*.

* 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.





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 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
- Reduced downtime
- High productivity



Whether you have to precisely layout 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.

Illustrations, descriptions and technical data are not binding. All rights reserved. Printed in Switzerland – Copyright Leica Geosystems AG, Heerbrugg, Switzerland, 2013.

When it has to be right.

805312en - III.13 - galledia





Total Quality Management – our commitment to total customer satisfaction.

Ask your local Leica Geosystems dealer for more information about our TQM program.



Leica DISTO™ Brochure



Leica iCON build Brochure

 \Box



PROTECT by Leica Geosystems Brochure



Leica Piper 100/200 Brochure



Leica Builder Brochure

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



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

LeicaGeosystems