Leica Rugby 810, 820, 830 & 840 The toughest construction lasers on site



- when it has to be **right**



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.



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

Unique power concept

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Unbeatable versatility – power and charge anywhere, anytime!

- Intelligent and rugged Li-Ion battery
- Interchangeable battery packs

out in the sun with the solar panel

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Toughest laser in the market

Swiss Technolog

RUGBY 840

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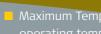
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Site proof design – rugged and robust housing provides reliable

IP 68 protected and the only

Quality you can trust – Lifetime manufacturer's warranty, 5 years no cost period and 2 years knockdown warranty







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

- towards the sun



reddot design award winner 2013

Maximum Temperature Stability – guaranteed highest accuracy across the entire operating temperature range, providing the perfect solution in all conditions



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



Leica Rugby 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





Keeps working when others stop

dual-axis

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





The laser that tackles it all

- on site
- reliable results



machine control up to 1.350m (4.430ft)

Maximum Temperature Stability guaranteed highest accuracy across the

Leica Rugby 830



Highest application performance for any levelling, aligning and squaring applications

Smart Targeting: Tie-in slopes in single and easy, at the touch of a button Smart Lock: Monitor and correct the

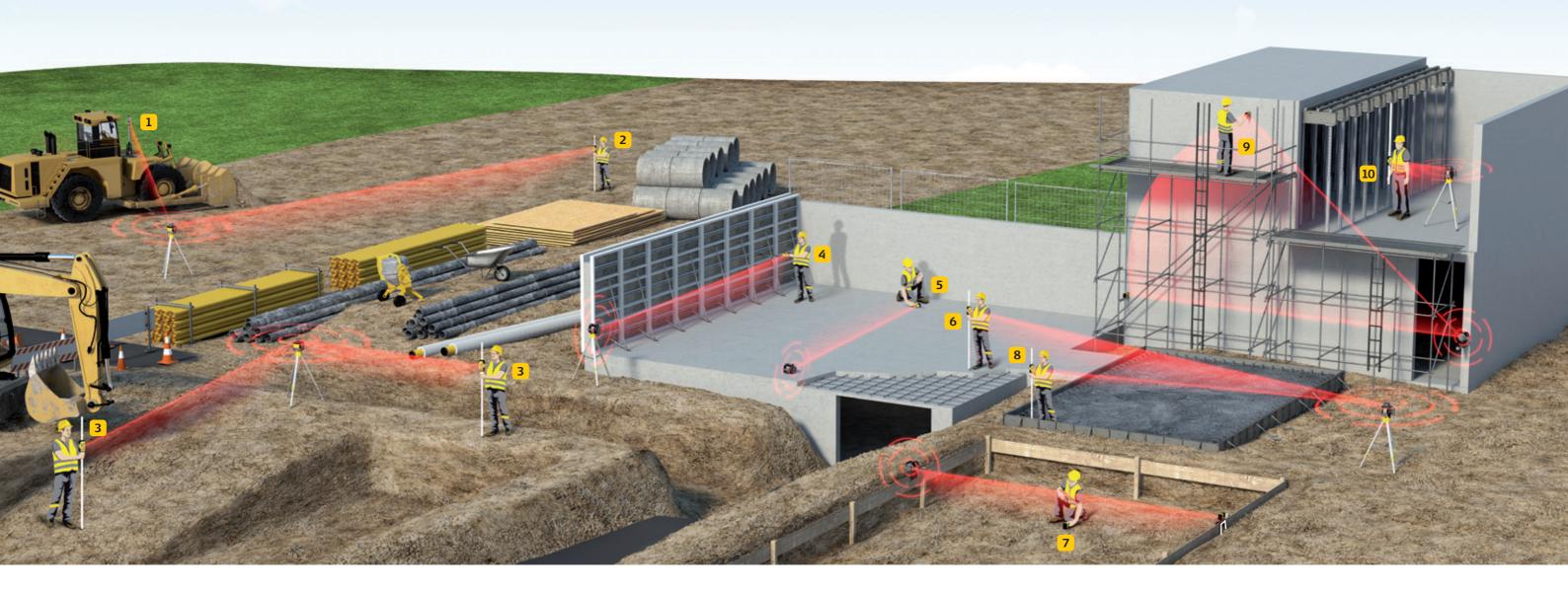
case, with Leica Rod Eye 180 RF remote receiver and RC400 remote control







Leica Rugby 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.

5 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.

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Batter board Align batter board markings and set-out

Align batter board markings and set-out building axis.



Formwork levelling Transfer reference height and level formwork.



Facade alignment Align fixings for facade over the entire plane.



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 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.



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

	Tex	7=1	7=7	7-7
Technical data	Rugby 810	Rugby 820	Rugby 830	Rugby 840
Functionality	Self-levelling horizontal,	Self-levelling horizontal	Self-levelling horizontal	Self-levelling horizonta
	single manual slope	& manual slope in dual	& manual slope in dual	vertical, 90° and manu
	(with slope adapter)	axis	axis	slope in dual axis
Smart Targeting		Smart Targeting	-	- + •
Smart Lock		Smart Targeting		Smart Targeting
Maximum Temperature			+A-	
Stability				
Operating range (1)	800 m (2.600 ft)	800 m (2.600 ft)	1.350 m (4.430 ft)	700 m (2.300 ft)
Operating range (diameter) Self-levelling accuracy*	800111(2.60011)			700m (2.300 ft)
Self-levelling range	± 1.5 mm at 30 m (± 1/16" at 100 ft) ± 6°			
Rotation speed	10 rps	10 rps	0 10 rps	0, 2, 5, 10 rps
Scanning modes				10°, 45°, 90°
aser diode type / class		635 nm Jvisi	hle) / Class 2	1 10,45,90
Dimensions (H × W × D)	635 nm (visible) / Class 2 235×238×190 mm (9.2×9.4×7.5 in)			
Weight with batteries				
Batteries (alkaline/rechargeable)	3.0 kg (6.6 lbs) Four D-cells / Li-Ion pack			
Batterv life**				
alkaline/rechargeable)		60 hours / 45	hours @ 20°C	
Extended operating	-20° to +50° C	-20° to +50° C	-20° to +60° C	-20° to +50° C
temperature	(-4° to +122° F)	(-4° to +122° F)	(-4° to +122° F)	(-4° to +122° F)
Storage temperature Environmental standard		-40° to +70°C (
RC400 remote control		IP	68	
				878 503
Operating range (diameter)		-	-	200 m (650 ft)
Accuracy is defined at 25°C (77°	F) ** Battery life is depend	lent upon environmental con	ditions	
_aser				
Receivers				
		gic		Smart Targeting
Tachnical data				
Technical data Working diameter	Rod Eye 140 Class 1.350 m (4.430 ft)	: Rod Eye 160 Digital 1.350 m (4.430 ft)		od Eye 180 Digital RF 1.350m (4.430 ft)
	1.350 m (4.430 ft) 120 mm / 5 in	1.350 m (4.430 tt) 120 mm / 5 in		1.350 m (4.430 ft) 120 mm / 5 in
Extended detection window		120111	90 mm / 3.5 in	
		00mm	/35 in	00 mm / 2 5 in
Numeric readout height				90 mm / 3.5 in
Numeric readout height Detectable spectrum	600 nm to 800 nm		/ 3.5 in o 800 nm	90 mm / 3.5 in 600 nm to 800 nm
Numeric readout height Detectable spectrum Detection accuracies		1 600 nm t	o 800 nm	600 nm to 800 nm
Numeric readout height Detectable spectrum Detection accuracies Ultra fine	- 600 nm to 800 nm -	600 nm t ± 0.5 mm	o 800 nm / ± 0.02 in	600 nm to 800 nm ± 0.5 mm / ± 0.02 in
Numeric readout height Detectable spectrum Detection accuracies Ultra fine Super fine	- 600 nm to 800 nm - ± 1.0 mm / ± 0.04 i	1 600 nm t ± 0.5 mm n ± 1.0 mm	o 800 nm / ± 0.02 in / ± 0.04 in	600 nm to 800 nm ± 0.5 mm / ± 0.02 in ± 1.0 mm / ± 0.04 in
Extended detection window Numeric readout height Detectable spectrum Detection accuracies Ultra fine Super fine Fine Medium	- 600 nm to 800 nm -	1 600 nm t ± 0.5 mm n ± 1.0 mm n ± 2.0 mm	o 800 nm / ± 0.02 in / ± 0.04 in / ± 0.08 in	600 nm to 800 nm ± 0.5 mm / ± 0.02 in

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PROTECT by Leica Geosystems

Guaranteed reliability for the toughest construction lasers

Leica Geosystems intelligent CONstruction Enhancing your performance



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.





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



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

iCONtrol

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



 High performance and precision for long range levelling
 Delicities and economics receiver.

Reliable and seamless receiver communication

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

Understanding construction.



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.

When it has to be right.





Total Quality Management – our commitment to total customer satisfaction.

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



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

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Leica Piper 100/200 Brochure



Leica Builder Brochure

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



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