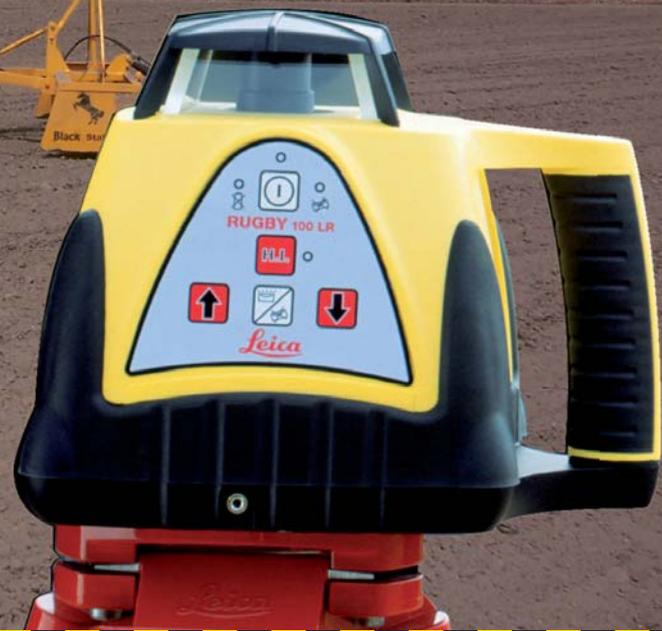


# Leica Rugby 100LR The long range land leveling laser

Perfect for  
Agricultural  
Use!



**SITE PROOF**  
by Leica Geosystems

- when it has to be **right**

**Leica**  
Geosystems

# Leica Rugby 100LR

## The long range land leveling laser

Work confidently with the Rugby 100LR from Leica Geosystems – Self Leveling, Long Range, Highly Accurate with H.I. (elevation) Alert and the innovative Cross-axis Compensation feature.

Like the Rugby 100, it is a new breed of laser built to be the industry leader. It is rugged, reliable, and is the best value-for-money construction laser for agriculture applications. The Rugby 100, used with a laser sensor fixed on the mast on the scraper unit, guarantees your field is precisely leveled. A panel in the cabin supports you in controlling the level of the machine as well as operating the hydraulic valves.



**The Leica Rugby 100LR – When you need to go the full distance!**

### Manual Grade with Cross-Axis Compensation

When activated, the cross-axis compensation automatically maintains the level position of the cross axis when manual grade is used in the main axis. Particularly useful for building driveways, septic lines, and other jobs that require a fast, easy way to put in slope.



### Why Rugby is the toughest player on the field:

The Rugby 100LR is a high technology, high precision tool. Compare these features and you'll see why Rugby sets the new standard for durability and value.

- Waterproof and dust proof to work reliably in all weather and job site conditions
- Housing made from co-molded rubber and high-impact plastic
- Wide, stable aluminum base for maximum strength and stability
- The head is enclosed to protect the crucial interior parts
- Rugged, high-impact carrying case included
- H.I. (Elevation) Alert protection
- Low battery indicator
- Long battery life
- Optional alkaline or NiMH batteries
- 24 month warranty



### Control Panel MCP 700 Specifications

Voltage Range	12/24 V DC
System Accuracy	±2 mm (Standard Deviation)
Hydraulic O/P Settings	Directional / Proportional Valves
Water Resistant	IP65
Power On / Off Switch	
Switch for Automatic and Manual Control Mode Selection	
LED Display to show Up-Grade, On-Grade and Below-Grade position of the Laser receiver with respect to the Laser Beam	
Manually Up and Down Hydraulic switch	

### Laser Sensor MLS 700 Specifications

Voltage Range	12/24 V DC
Current Consumption	<500 mA
Laser Requirement	All rotating Lasers (HeNe or IR)
LED Display to show Up-Grade, On-Grade and Below-Grade position of the Laser receiver with respect to the Laser Beam	
Water Resistant	IP68
Pulsed Display	5 Pulses per second
Accuracy Dead Band	5 User Selectable Accuracy Dead Bands

### Leica Rugby 100LR Specifications

Operating Range*	1'500 m Diameter
Self-leveling Accuracy**	±1.5 mm at 30 m (±1/16" at 100 ft)
Self-leveling Range	±5°
Rotating Speeds	5, 10 rps (300, 600 rpm)
Laser Diode (type)	780 nm (invisible)
Manual Grade	up to 10 %
Dimensions (HWD)	197 x 248 x 175 mm (7.8 x 9.8 x 6.9")
Weight with Batteries	2.5 kg (5.5 lbs)
Battery Type	NiMH pack or Alkaline
Battery Life***	Alkaline: 60 hours NiMH: 35 hours
Operating Temperature	-20 to +50° C (-4° F to + 122° F)
Storage Temperature	-40 to +70° C (-40° F to +158° F)
Dust / water (IEC60529)	IP56

\* In average (agriculture) conditions & 750 m in poor (construction site) conditions  
 \*\* Accuracy is defined at 25° C  
 \*\*\* Battery life is dependent upon environmental conditions.

### Leica Geosystems's warranty

Leica Geosystems's warranty offers complete coverage of the internal self-leveling system no matter what.

Should any accident or knockdown occur, all repairs to the internal assembly will be done at no charge.

### Advantages of laser land leveling over traditional land leveling:

- Precise level and smoother soil surface, easy land preparation
- Reduction in time and water required to irrigate the field
- Uniform distribution of water in the field, less water consumption
- Uniform moisture environment for crops, less weed problems
- Good germination and growth of crop, uniformity in crop maturity
- Reduce seed rate, fertilizer, chemicals, and fuel requirements
- Improve field traffic ability for the subsequent field operations

### Benefits of precise land leveling:

- Saves irrigation water up to 35%
- Reduced weed in agriculture field
- Increase in farming area up to 3.5%
- Increase in productivity up to 50%
- Reduced farm operating time by 10%
- Assist top soil management
- Saves fuel/electricity used in irrigation
- Saves labor cost

### The Leica Rugby 100LR Package

A recommended package consists of the Leica Rugby 100LR, Carrying Case, Rod-Eye Receiver and either Alkaline or rechargeable NiMH Battery Pack.



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.**

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**Total Quality Management – our commitment to total customer satisfaction.**

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

Laser class 1 in accordance with IEC 60825-1 and EN 60825-1  
Laser class I in accordance with FDA 21CFR CH.1 § 1040



**Leica Rugby 50**  
The one-button land leveling laser



**Leica Rugby 100**  
The tough land leveling laser



**Leica Rugby 300 SG & 400 LG**



**Leica PowerBlade**  
Automated Grading System