Leica
GEOSYSTEMS

Leica Rugby 600 Series

Leica Rugby 600 series rotating lasers are designed to achieve any task in all construction applications. They level, align and square quicker than ever before, eliminating costly errors and downtime. These lasers are built to last on tough construction sites with a durable housing and IP67 protection, making them the most rugged and trusted choice for any job.

- Setting foundations and footings has never been more efficient. The Rugby 600 series is fit for any interior and exterior levelling, aligning and squaring application – concrete forming, pad placement and framework levelling.
- Rugby 640G provides outstanding visibility for indoor and outdoor applications with new green beam laser technology
- Rugby 680 provides a semi automatic grade capability in both axis up to 8%.
- Detect the laser beam in any conditions and at any distances with the Leica Rod Eye receiver range – from a convenient offset reading with Rod Eye 120G/120 to working at long distances with Rod Eye 140/160
- Effortlessly perform slope and plumb applications, move scan lines, change rotating speed, and save on battery power whenever needed (Rugby 640/640G) using the Leica RC 400 remote control with increased functionality and application flexibility

HEXAGON

	Rugby 610	Rugby 620	Rugby 640	Rugby 640G	Rugby 680
Functionality	Self-levelling horizontal, one button laser	Self-levelling horizontal & manual slope in one axis	Self-levelling horizontal, vertical, 90° and manual slope in dual axis	Self-levelling horizontal, vertical, 90° and manual slope in dual axis	Self-levelling horizontal, dial-in grade in dual axis
Laser class	Class 1	Class 1	Class 2		Class 1
Laser type	635 nm (red)	635 nm (red)	635 nm (red)	520 nm (green)	635 nm (red)
Plumb up	-	-	✓	✓	-
Accuracy	± 2.2 mm at 30 m (± 3/32" at 100 ft)	± 2.2 mm at 30 m (± 3/32" at 100 ft)	± 2.2 mm at 30 m (± 3/32" at 100 ft)	± 2.2 mm at 30 m (± 3/32" at 100 ft)	± 1.5 mm at 30 m (± 1/16" at 100 ft)
Self-levelling range	± 5°				
Grade range	-	-	-	-	± 8% DG
Smart Slope	-	-	-	-	✓
Rotation	10 rps	10 rps	0, 2, 5, 10 rps	0, 2, 5, 10 rps	10 rps
Scanning	-	-	10, 45, 90°	10, 45, 90°	-
Plumb down	-	-	✓	✓	-
Sleep mode	-	-	✓	✓	-
Max. range (ø) – RE120/120G	800 m (2600 ft)	800 m (2600 ft)	500 m (1650 ft)	400 m (1300 ft)	900 m (2950 ft)
Max. range (ø) – RE140/160	1100 m (3600 ft)	1100 m (3600 ft)	600 m (2000 ft)	-	1100 m (3600 ft)
Max. range (ø) – RC400 remote	-	-	200 m (650 ft)	200 m (650 ft)	-
Operation time (Alkaline battery)	Up to 60 h				
Operation time (Li-Ion battery)	Up to 120 h	Up to 120 h	Up to 80 h	Up to 70 h	Up to 75 h
Working temperature	-10 °C to +50 °C (14 °F to +122 °F)	-20 °C to +50 °C (-4 °F to +122 °F)	-20 °C to +50 °C (-4 °F to +122 °F)	-20 °C to +50 °C (-4 °F to +122 °F)	-20 °C to +50 °C (-4 °F to +122 °F)
Protection (with & w/o battery)	IP67				
Warranty	5 years no cost[1]				

	Rod Eye 120	Rod Eye 120G	Rod Eye 140 Classic	Rod Eye 160 Digital
Working diameter (laser dependent)	900 m (2950 ft)	400 m (1300 ft)	1350 m (4430 ft)	1350 m (4430 ft)
Extended detection window	70 mm (2.76 in)	70 mm (2.76 in)	120 mm (5 in)	120 mm (5 in)
Numeric readout height	-	70 mm (2.76 in)	-	90 mm (3.5 in)
Detection bandwidth	Fine ± 1 mm Medium ± 2 mm Coarse ± 3 mm	Fine ± 1 mm Medium ± 2 mm Coarse ± 3 mm	Fine ± 1 mm Medium ± 2 mm Coarse ± 3 mm	Very Fine ± 0.5 mm Fine ± 1 mm Medium ± 2 mm Coarse ± 3 mm Very Coarse ± 5 mm
Warranty	3 years no cost[1]			

[1] See PROTECT by Leica Geosystems General Terms & Conditions for details

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