

# Leica Rugby 600 Series

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*Leica*

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# Leica Rugby

## Fit, fast, tough – Select the perfect team player for your site

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

### Leica Rugby 610



#### One button simplicity

- Simple and reliable, one button laser where no mistakes are possible
- Superb performance with all Leica Rod Eye receivers – extend your working range using the Rod Eye 140 Classic and the Rod Eye 160 Digital



### Leica Rugby 620



#### Simple and reliable – no mistakes possible

- Concrete forming, pad placement and framework levelling; setting foundations and footings has never been more efficient
- Slope matching up to 8% in single axis





## Versatility inside and outside

- Fit for any interior and exterior levelling, aligning and squaring application
- Scan 90 – make layout easier by quickly moving the beam to the left or right side
- Plumb Down – automatic and accurate plum down direction for alignment over a reference point
- Sleep Mode – save battery and put the Leica Rugby into sleep mode without disturbing your set up

## Leica Rugby 640



## Slopes done easy

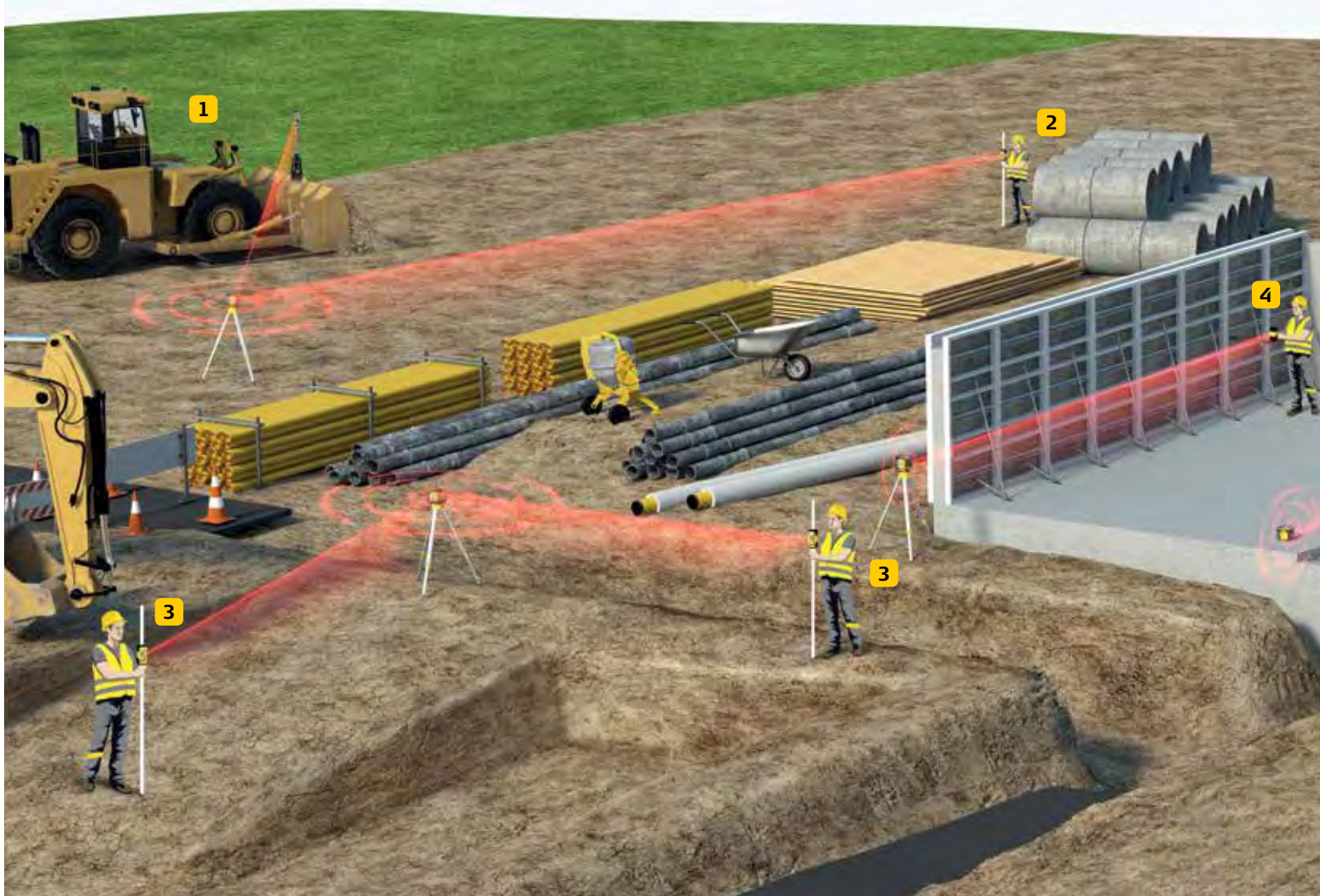
- A great general construction laser with digital grade capability
- Dial-in grade in single or dual axis, easy and fast at the touch of a button
- The unique Smart Slope function continuously monitors time and temperature changes to ensure accurate performance over the course of the day

## Leica Rugby 670/680



# Leica Rugby

The right team for every application on site



- 1 Site Preparation**  
Level to grade with dozers, graders and excavators.



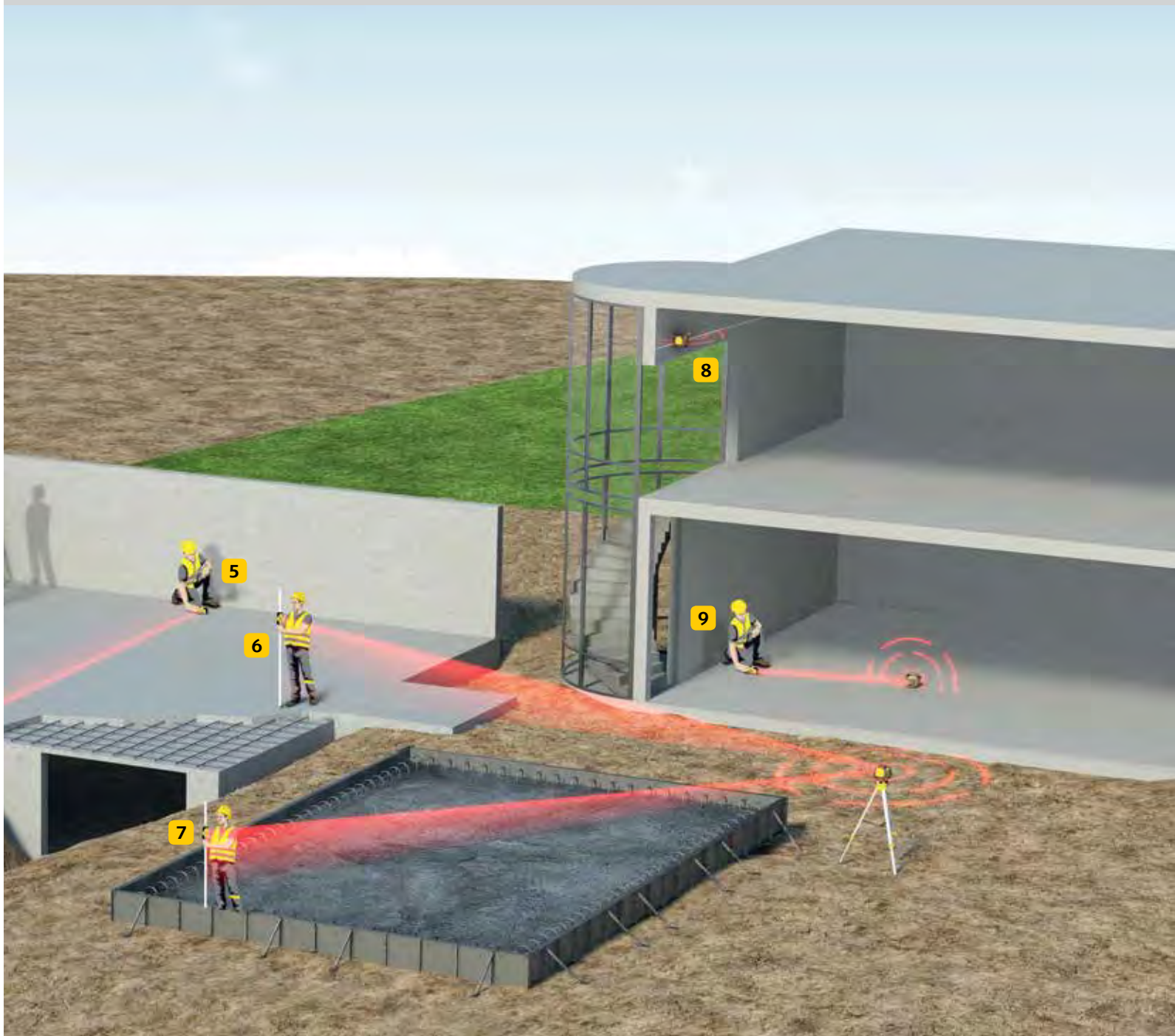
- 3 Slopes for ramps and driveways**  
Dial-in slopes in single and dual axis.



- 2 Grade checking**  
Easy and reliable grade checks.



- 4 Formwork verticality**  
Align parallel to the reference and check plumb of formwork.



**5 Set-out walls**  
Align two points and mark position of wall or formwork.



**7 Formwork levelling**  
Transfer reference height and level formwork.



**6 Concrete Pouring**  
Set concrete forms and check concrete during the pour.



**8 Level ceiling**  
Check and level suspended ceiling hangers.



**9 Set-out**  
Set-out and mark position of walls.

# 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.

## Leica Rod Eye Basic



- **LCD Indication:** two clear displays on the front and back of the receiver
- **Audio Indication:** two settings, high for noisy outdoor jobs and low for indoor applications
- **Automatic Shutoff:** after ten minutes to conserve battery life
- **Grade Rod Bracket:** with integrated level vial ensures your grade rod is plumb and improves the reading accuracy
- **Built-in clamp:** the vial ensures good alignment and improves reading accuracy
- **Protective Overmold:** protects the receiver from possible accidents on tough jobsites

## Leica Rod Eye 140 Classic



- Step up with increased capture height and working distance with Leica Rod Eye 140 – with the built-in 12 cm (5") detection window you can easily detect the beam over the entire distance

## Leica Rod Eye 160 Digital





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

## PROTECT by Leica Geosystems

Our products provide the highest levels of reliability, accuracy and ruggedness – even under the roughest jobsite conditions, making our customers more productive and successful. With PROTECT by Leica Geosystems, we offer a best-in-class service where customers can count on us, anytime, anywhere:









- Lifetime manufacturer's warranty
- Certified quality
- No cost period for repair and service
- Swiss technology

We offer a 3 years no cost period\* for the Leica Rugby 600 series.

|   |                |   |                  |
|---|----------------|---|------------------|
|  <b>PROTECT</b><br>by Leica Geosystems |                |  |                  |
| Lifetime Warranty   | No Cost Period | Certified Quality   | Swiss Technology |

\* 3 Year No Cost applies to Leica Rugby 610, Leica Rugby 620, Leica Rugby 640, Leica Rugby 670 and Leica Rugby 680.

# Technical Specifications

|  |    |     |     |  |  |
|--|---|--|---|---|---|
| Technical data                                   | Rugby 610   | Rugby 620  | Rugby 640   | Rugby 670   | Rugby 680   |
| Dimensions                                       | 212×239×192 mm  |  |   |   |   |
| Weight   | 2.38 kg / 5.2 lbs   | 2.38 kg / 5.2 lbs  | 2.56 kg / 5.6 lbs   | 2.56 kg / 5.6 lbs   | 2.56 kg / 5.6 lbs   |
| 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, dial-in grade in single axis                             | Self-levelling horizontal, dial-in grade in dual axis                               |
| Product type                                     | General construction  | General construction   | Multipurpose / H.V.   | Semi-auto grade   | Semi-auto grade   |
| Laser class                                      | Class 2   |  |   |   |   |
| Laser type                                       | 635 nm (visible)  |  |   |   |   |
| Plumb up   | -   | -  | Yes   | -   | -   |
| Measured at 20°C (horizontal / vertical)         | ± 2.2 mm at 30 m (± 3/32" at 100 ft)  |  | ± 1.5 mm at 30 m (± 1/16" at 100 ft)  |   |   |
| Grade range                                      | -   | -  | -   | ±8% SG  | ±8% DG  |
| Smart Slope                                      | -   | -  | -   | Yes   | Yes   |
| Rotation – RPS                                   | 10  | 10   | 0, 2, 5, 10   | 10  | 10  |
| Scanning – degrees                               | -   | -  | 10, 45, 90  | -   | -   |
| Scan90   | -   | -  | Yes   | -   | -   |
| Beam down  | -   | -  | Yes   | -   | -   |
| Sleep mode                                       | -   | -  | Yes   | -   | -   |
| Range (diameter) – Basic                         | 500 m (1.650 ft)  | 600 m (2.000 ft)   | 500 m (1.650 ft)  | 600 m (2.000 ft)  | 600 m (2.000 ft)  |
| Range (diameter) – RE140/160                     | 1.100 m (3.600 ft)  |  |   |   |   |
| RF remote control (diameter)                     | -   | -  | 200 m (650 ft)  | -   | -   |
| Li-Ion batt. / hours operation                   | 40+   | 40+  | 40+   | 40+   | 40+   |
| Alkaline batt. / hours operation                 | 60+   | 60+  | 60+   | 60+   | 60+   |
| Working temperature range                        | -10 to +50 °C (14 to +122 °F)   | -20 to +50 °C (-4 to +122 °F)  | -20 to +50 °C (-4 to +122 °F)   | -20 to +50 °C (-4 to +122 °F)   | -20 to +50 °C (-4 to +122 °F)   |
| Storage temperature range                        | -20 to +70 °C (-4 to +158 °F)   | -40 to +70 °C (-40 to +158 °F)   | -40 to +70 °C (-40 to +158 °F)  | -40 to +70 °C (-40 to +158 °F)  | -40 to +70 °C (-40 to +158 °F)  |
| Seal (both excluding and including battery pack) | IP67  | IP67   | IP67  | IP67  | IP67  |
| Warranty   | 3 years no cost (see PROTECT by Leica Geosystems policy for life time coverage)     |  |   |   |   |
| Laser Receivers                                  |  |  |  |   |   |
| Technical data                                   | Rod Eye Basic   | Rod Eye 140 Classic  | Rod Eye 160 Digital   |   |   |
| Working diameter                                 | 600 m (2.000 ft)  | 1.350 m (4.430 ft)   | 1.350 m (4.430 ft)  |   |   |
| Extended detection window                        | 36 mm / 1.4 in  | 120 mm / 5 in  | 120 mm / 5 in   |   |   |
| Numeric readout height                           | -   | -  | 90 mm / 3.5 in  |   |   |
| Detectable spectrum                              | 600 nm to 800 nm  | 600 nm to 800 nm   | 600 nm to 800 nm  |   |   |
| Detection accuracies                             |   |  |   |   |   |
| Very fine  | -   | -  | ± 0.5 mm / ± 0.02 in  |   |   |
| Fine   | ± 1.0 mm / ± 0.04 in  |  | ± 1.0 mm / ± 0.04 in  |   |   |
| Medium   | -   | ± 2.0 mm / ± 0.08 in   |   | ± 2.0 mm / ± 0.08 in  |   |
| Coarse   | ± 3.0 mm / ± 0.12 in  |  | ± 3.0 mm / ± 0.12 in  |   |   |
| Very coarse                                      | -   | -  | ± 5.0 mm / ± 0.20 in  |   |   |

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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**Leica DISTO™**  
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**Leica Piper 100/200**  
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