

ROMER BIKE MEASUREMENT SYSTEM





- 1 The laser scanner collects 50,000 3D points per second from the bike frame's surface; an entire frame can be measured and checked in just minutes.
- 2 The 3D points are compared to the CAD surfaces and assigned colours according to their distance from the CAD model. The system creates easy to understand checking reports.
- 3 The ROMER Absolute Arm's compact design and lightness mean you can take it anywhere.



The ROMER Bike Measurement System is a completely portable 3D scanning system, developed in Switzerland in close collaboration with the UCI (International Cycling Union) and the Laboratory of Polymer and Composite Technology (LTC) at the Swiss Federal Institute of Technology (EPFL).

The dedicated measurement software is built on InnovMetric's class-leading PolyWorks® software and using just 9 simple commands it allows you to check the validity of your bike frame against its CAD model in minutes, creating easy to understand checking reports. Just pass the scanner over the frame and the integrated laser scanner collects 3D points from the frame surface. The ease of movement of the ROMER Absolute Arm allows you to check even difficult to reach areas.

Featuring industry proven ROMER technology, the system gives unrivalled non-contact scanning performance, even on highly reflective carbon fibre surfaces. It has been tested extensively to give accurate operator independent results. The ROMER Bike Measurement System is now the UCI's approved instrument for checking bike frame legality, whatever the type, whatever the location.

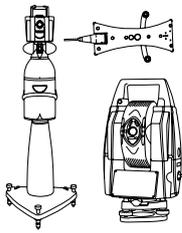
System Benefits

- UCI approved Bike Measurement System
- Accelerates your design iteration and quality control
- Compares the bike frame to its CAD model using a standardised UCI procedure
- Easy to use. Only 9 commands are necessary to check the bike frame from start to end. No metrology experience is necessary
- Complete portability. This is metrology to go
- High accuracy
- Non-contact measurement: a frame support isn't necessary
- Unrivalled scanning performance on typically difficult surfaces: carbon fibre, steel, plastic, leather etc.
- The lightest portable measuring arm in the world
- Rapid set-up. No warm-up time means the system is ready in minutes

System Specifications

- Fully B89 and VDI/VDE certified. UCI approved
- High speed Wi-Fi data acquisition
- System accuracy: 0.147 mm
- Measurement volume: 3.5 m
- Scanning speed: 50,000 points / sec
- Ambient working temperature range: 0-50°C
- Humidity range: 10-90% non-condensing
- Laser class: 2M (no eye-wear necessary)
- Weight only 9.2 kg
- Supports IGES and STEP CAD model import
- Measurement reports are exportable in HTML and PDF formats

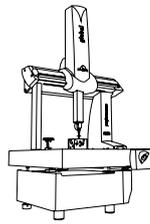




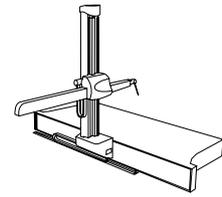
LASER TRACKERS & STATIONS



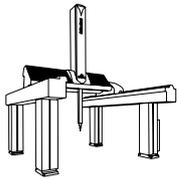
PORTABLE MEASURING ARMS



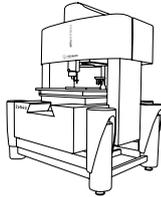
BRIDGE CMMS



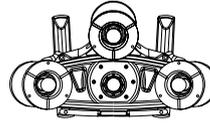
HORIZONTAL ARM CMMS



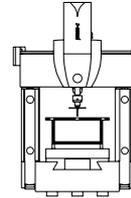
GANTRY CMMS



MULTISENSOR & OPTICAL SYSTEMS



WHITE LIGHT SCANNERS



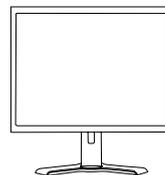
ULTRA HIGH ACCURACY CMMS



SENSORS



PRECISION MEASURING INSTRUMENTS



SOFTWARE SOLUTIONS



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