

RedLux Ultra Precision Form Metrology

Unmatched Speed and Accuracy

The RedLux 3D form profiler is based on 10 years of experience in precision non-contact form metrology. For the first time this technology has been applied to the measurement of artificial joints, engine components and other high precision devices, giving precision 3D data for surface form, roughness and wear.

New Possibilities

This new surface profiler combines the advantages of a roundness instrument and a coordinate measuring machine (CMM) with the speed of an optical technique to provide fast, high-resolution information on the whole component. Typical measurement times range from seconds to just a few minutes, making the instrument suitable for R&D as well as quality control. We can even design a custom version to meet your specific needs.

Powerful and Intuitive Software

The familiar Windows® user interface lets the operator control the instrument with ease. Data analysis, automation and export of results for fast report generation come as standard.



The RedLux 3D ultra precision form profiler.

Specifications

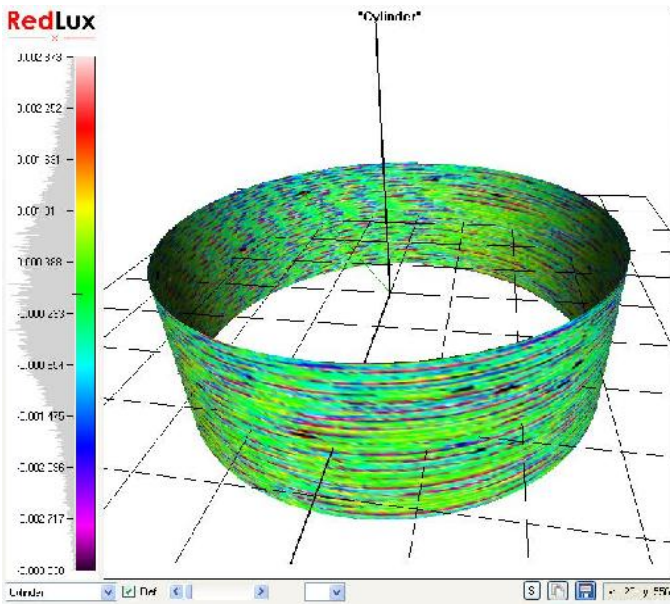
Typical samples have a size of up to 150 mm. They are often spherical or rotationally symmetrical and can be measured with a resolution of 20 nm.

Measurement Service

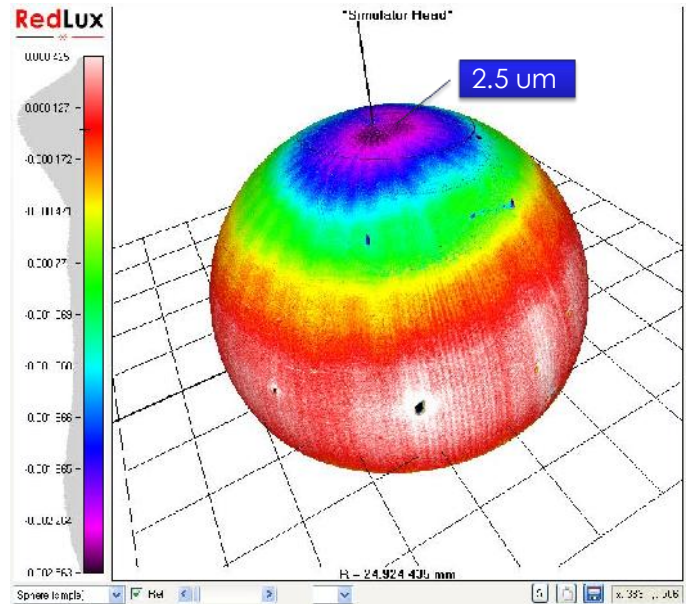
If you have a specific measurement issue, we can offer measurement consultancy. Please contact us for details.

Note: Specifications are subject to change without notice.

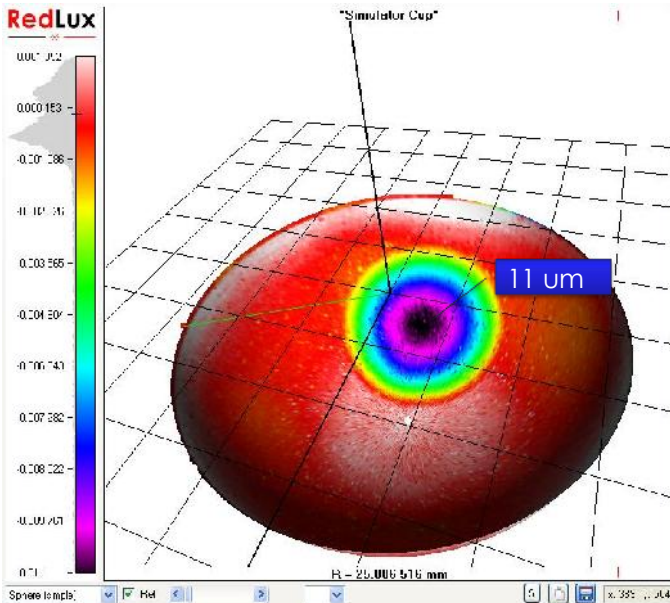
Examples



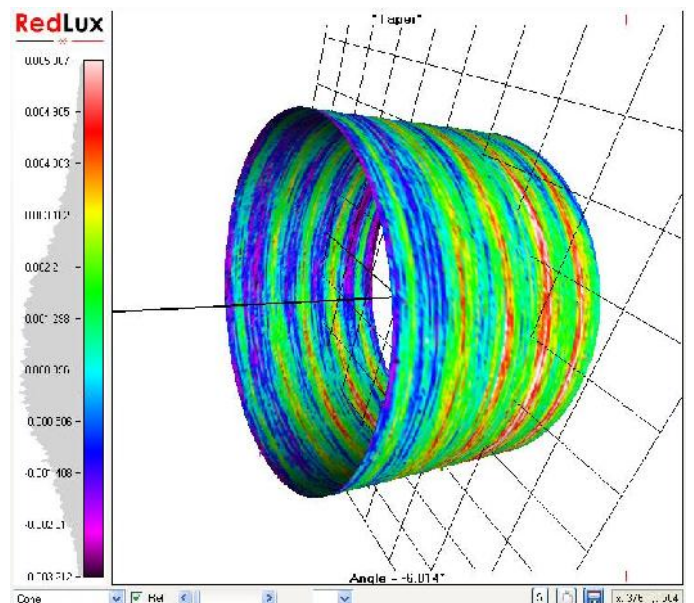
Cylinder with error of +2.9/-3.3 μm



Worn head of a metal-on-metal artificial hip joint
(courtesy of Finsbury Orthopaedics)



Worn cup of a metal-on-metal artificial hip joint
(courtesy of Finsbury Orthopaedics)



Taper with error +5.8/-3.2 μm