



**Reliable Measuring & Imaging Services**  
ZEISS Quality Excellence Centre



# Where Metrology & Microscopy Meet

From contact and optical measurements to computed tomography, electron and light microscopy – our ZEISS Quality Excellence Centre in Rugby, UK, is well equipped to meet all your metrology and imaging needs. With more than 18 measuring and microscopy systems, and over 30 highly qualified employees, we make our many years of industrial metrology experience available to you.

Contact us to find out more about these services, and how metrology and microscopy systems can be correlated to add further value to your measurement workflow.

## Our services at a glance:



**Metrology contract  
measurements**



**Microscopy contract  
measurements**



**Calibration and  
on-site support**



**Component digitization**



**CT and XRM  
Contract Scanning**



**Training courses**

### Measurement results you can trust.

Our measuring houses are certified as per ISO 9001:2015 and accredited as per DIN ISO 17025. What can we measure for you today?



### Get a quotation directly from us!

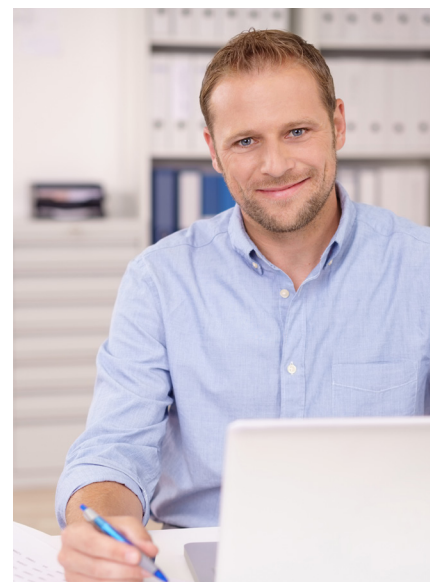
Call us on **+44 01223 401 450**

or contact on email:

**[info.metrology.uk@zeiss.com](mailto:info.metrology.uk@zeiss.com)**



[www.zeiss.co.uk/  
metrology-services](http://www.zeiss.co.uk/metrology-services)



# Our services

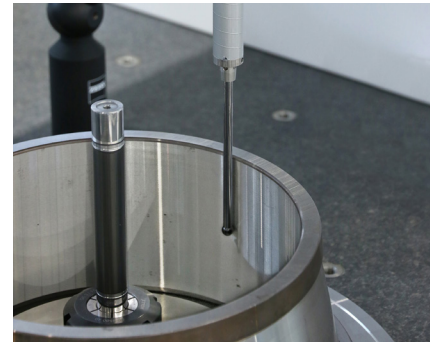
## Customized to meet your measuring needs



### Metrology contract measurements

We offer you access to a wide range of CMM systems, allowing you to utilize the most appropriate technique for your parts. Our specialists are on hand to provide any advice needed, and can either provide you with a full report, or simply supply you with results for use within your current software.

- Gear tooth measurements: all standard gear types with a diameter of up to three meters
- Optical measurements: 3D scanners, multi-sensor measuring systems, profile and fringe light projectors
- Form, surface and contour measurements: from roundness to radius and roughness



*Your measuring jobs are in good hands*



### Microscopy contract measurements

Do you need higher resolution for your surface analysis? We have recently integrated a range of microscopy systems into our metrology department, giving you access to the largest portfolio of microscopes in the world.

- SEM for high resolution imaging, and chemical and structural information
- Laser confocal 3D imaging for fine surface topography and roughness of nanomaterials, metals, polymers and semiconductors.
- Digital microscopy for simple, fast and routine imaging and batch analysis
- Optical light microscopy for surface analysis, including polarised light and an array of contrast techniques.



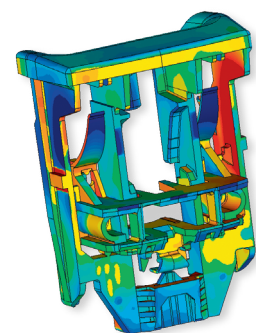
*High resolution imaging and analysis*



### CT and XRM contract scanning

Industrial 3D imaging and measurement via computed tomography and x-ray microscopy techniques is an important part of our service offerings. Our highly experienced team can offer advice on which technique is most appropriate for you parts and the required resolution.

- Non-destructive failure analysis: X-ray inspection, porosity and defect analysis and much more.
- Metrology analyses: Interior contours and undercuts
- Geometry comparisons: Nominal-actual (e.g. compared to CAD) or actual-actual (e.g. compared to another cavity)



*CT for interior and exterior structures*

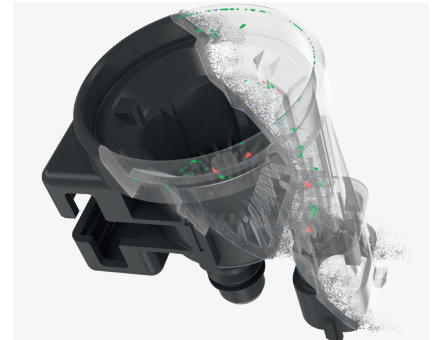


## Component digitalization

Reverse engineering is an important step to extract the design data from a finished component. We scan your component and create surface descriptions which can then be processed directly in the CAD system.

### Our reduction methods:

- Surface and volume models
- Fully parametric (CAD model with geometric features)
- Reduction of scaled and inverted errors for tool correction
- Direct interface to CAD systems for further editing in the CAD system



*Reverse engineering and tool correction*



## Calibration and on-site support

Do you have to measure more parts than capacities allow? Do you require assistance with more complex measuring jobs? We provide you with on-site assistance if needed. We can provide you with the following services on short notice through our subsidiaries:

- Employee leasing: We bridge capacity and personnel bottlenecks
- Start-up support: From individual sub-tasks all the way to complete planning
- Measurement run programming: CALYPSO and CALIGO
- Optimisation of programs and workflows



*Support in next to no time*



## Training courses

From basic trainings to courses for advanced and expert metrologists: the ZEISS Metrology Academy offers you a large number of seminars and training courses at all sites, ensuring that you stay up to date with the latest standards and metrology requirements.

- AUKOM: Basic metrology training courses
- Software: Training courses for our software packages (CALYPSO, PiWeb, GEAR PRO, etc.)
- Seminars: GPS (geometrical product specifications), form and location tolerances, roughness parameters and spline



*Stay up to date with our various training courses*

# Visit the ZEISS UK Quality Excellence Centre

The ZEISS Quality Excellence Centre in Rugby allows you to access the largest portfolio of measuring and imaging systems in the world. We can undertake just the analysis for you, sending you the results for you to investigate and report using your software, or provide a full measurement and reporting service. Whether you have a small project to run, need occasional access to technology you do not currently have in house, or simply want to try before you buy, we have a solution to help. Uniquely, we can also discuss how to build a correlative workflow across multiple platforms – bringing your data together to provide better results, quicker.



## ZEISS UK Quality Excellence Centre

**Carl Zeiss Ltd**

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Rugby Warwickshire CV21  
1ST  
United Kingdom



## Take a 360° tour of the facility!

Our doors are now open 24/7 for you to take a virtual tour of the ZEISS UK Quality Excellence Centre. Scan the QR code to watch on your smartphone, tablet, headset or visit:



[www.omnivirt.com/view/15661](http://www.omnivirt.com/view/15661)

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