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QUALITY ASSURANCE DOWN TO THE SMALLEST DETAIL.

That something special about Quality Analysis: in our organisation you will find the right experts and the right analysis methods for all materials and every requirement.

Our service areas:

- Industrial computed tomography
- Industrial metrology
- Technical cleanliness verification
- Materialography
- Chemical analytics







INDUSTRIAL METROLOGY



YOU HAVE THE MEASURING TASK, WE HAVE THE APPROPRIATE MEASURING METHOD.

Whether **TACTILE, OPTICAL** or using **CT**: to suit your measuring task, we check for dimensional accuracy and surface quality using the appropriate method or we combine various methods. For cost-effective measurement and analysis results on time:

- Fast, reliable measurement results thanks to high machine capacity and extensive human resources
- Accredited measuring rooms with more than 1,000 m²
- Modern, flexible range of equipment: Zeiss, Mitutoyo and GOM
- Very small and large components in all materials

You profit from all the advantages of the related method. With extensive experience and sound expertise, our experts obtain the best from every analysis method so that you can rely on excellent measurement results.

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WHAT'S NEW?

Tactile and optical measurement of electrostatic sensitive components (ESDS parts) in ESD protection zone

- Mobile ESD protection zone (EPA, eletrostatic protected area), is set up as needed and verified before usage
- Device complies with the requirements of the standard DIN EN 61340-5-1 (VDE 0300-5-1), which describes the general requirements for the protection of electronic components
- ESD control elements, such as work surface, LED magnifier light, wristband, floor covering, chair and clothing have been qualified by an external test laboratory
- Regular internal verification with own calibrated measuring instrument
- Trained and instructed personnel
- Continuous environmental monitoring (temperature und relative humidity)
- Personnel access to ESD protection zone only after discharge capability test (PGT, personnel grounding tester)







TACTILE METROLOGY.

Checking quickly and precisely from the individual dimension to serial measurements

- Highly precise measurement of standard geometries, freeform surfaces, shape and position, surfaces and contours
- Surface comparison, e.g. nominal-actual comparison
- Very high dimensional accuracy for precision fits and gearwheel measurement
- Measuring volume up to x = 1200, y = 3000, z = 1000 mm
- Initial sampling in accordance with VDA and PPAP





Source: Carl Zeiss AG, Mitutoyo Deutschland, GmbH



CMM-ACCEPTANCE CHECK

We check the accuracy of our coordinate measuring machines at regular intervals according to DIN EN ISO 10360 and VDI/VDE 261.

This check is carried out with a 1540 mm step gauge block for the X/Y/Z axes and with a universal test body (CMM Check). The basis of the CMM-Check is a flexurally rigid base body on which high-precision, calibrated dimensional standards and form standards are mounted, such as setting rings, ceramic balls, mating standards and two gauge blocks. This allows properties such as probing behavior or scanning properties of the measuring head, length deviations or four-axis deviations to be recorded for our CMM with rotary table.

Both standards are metrologically traceable and are monitored by an external accredited testing laboratory. Due to the regular interim tests, we can always guarantee the measuring equipment capability and suitability of our systems, analogous to the accreditation according to DIN EN ISO/IEC 17025:2018.

We also offer the calibration and testing of coordinate measuring machines as a service at your site. Our experts will be happy to inform you about this: 07022 2796-832







OPTICAL METROLOGY.

3D digitalisation for the fast acquisition of all external geometries

- Measurement of standard geometries and freeform surfaces
- Complete component analysis and early trend analysis during series production
- Surface comparison, e.g. nominal-actual comparison
- 3D digitalisation and reverse engineering
- For mobile applications, independent of component sizes







3D COMPUTED TOMOGRAPHY.

Non-destructive analysis of complex internal and external geometries

- Measurement of standard geometries and freeform surfaces
- Surface comparison, e.g. nominal-actual comparison
- Versatile volume-based analysis options, e.g. defect analysis, porosity and inclusion analysis, assembly checking, foam structure analysis
- Components made of various materials with diameter of up to 550 mm and height of up to 1200 mm





Source: Carl Zeiss AG, General Electric Deutschland Holding GmbH





METROLOGY³: COMBINED METHODS FOR PRECISE RESULTS.

Rely on **exact, precise** and **efficient measurement results**: for data acquisition we combine tactile and optical metrology, as well as 3D computed tomography, as necessary. As such we exploit the specific strengths of the measurement methods used for your measuring task. For the highly precise checking of initial samples, workpieces, series production components and more.

In a comprehensive overall report you receive all measurement results clearly presented as well as access to the complete measurement results – the perfect basis for your product and process development, process monitoring and requalification.





STANDARDISED TEST METHODS. ACCLAIMED QUALITY ASSURANCE.

Accredited test laboratory in accordance with DIN EN ISO/IEC 17025:2018

Our accreditation means for you one thing above all else: certainty. You can rely on high standards, excellent services and guaranteed quality standards. As your partner, we accompany you during product development, innovations and safeguard product quality together with you.

Advantages of our accreditation:

- Impartiality and confidentiality
- International validity (ILAC)
- Dependability due to conformity assessment
- Reproducibility and comparability
- Standardised measurement and analysis methods
- Highest requirements on the technical standard
- Monitoring of the management system and the competence of the specialist personnel





QUALITY ASSURANCE IN NUERTINGEN AND SWITZERLAND.

It is possible to implement your projects worldwide from our sites.



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