

ZEISS Metrology Services Experience and Technology



Customized Support

ZEISS Engineering to Fit Your Needs

As an engineering group, ZEISS Metrology Services is a business partner for your success. We act as an extension of your quality department to bring customized solutions to resolve your issues and get parts out the door – with results you can trust.

Programming and Inspection

Our inspection labs are outfitted with the latest industrial metrology equipment and software. Our engineers use ZEISS CALYPSO software to provide you with anything from a simple inspection report to a turn-key measurement plan installation.

Onsite Engineering Support

Equipped with a team of 50+ experienced applications engineers, we can bring the solution to you. Onsite support brings a ZEISS expert to work hands-on with your team on a plan tailored to your needs.

Custom Consulting

We provide customized consulting beyond the scope of standard ZEISS programming classes and made-to-order for your company. Contact us with your exact needs, and we can provide one-on-one consulting or design a seminar specifically for you. It can be held at our regional technical centers or held on site at your facility.

Reporting and Statistical Analysis

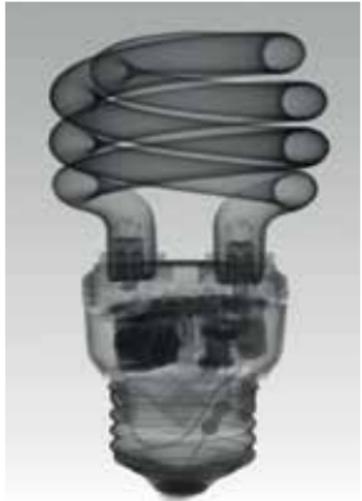
With ZEISS PiWeb software, we can provide you with the solution to your data mining needs. PiWeb acts as a statistical analysis tool to visualize results, monitor machine repeatability, and perform gage studies. Our engineers can bring a global data mining tool to your facility to fully optimize your manufacturing capabilities.

Computed Tomography (CT)

Non-Destructive X-Ray Inspection

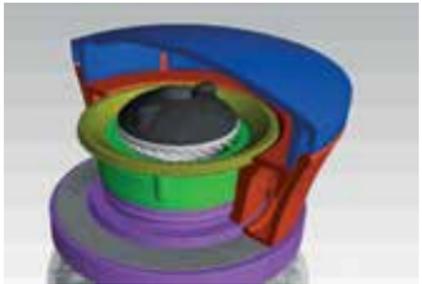
Internal and External Analysis

Through the use of X-rays, METROTOM technology allows our engineers to perform precise measurements on external features, as well as on internal features without damaging the part; a process not possible with a standard probing system.



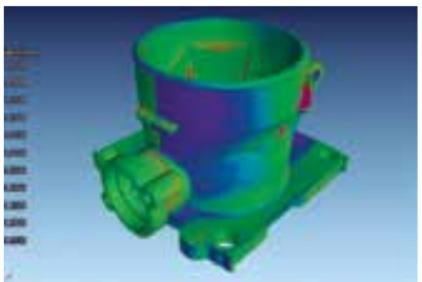
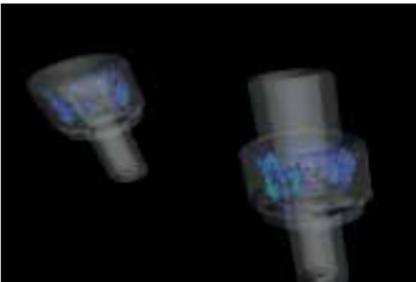
Assembly Analysis

CT imaging allows the user to analyze infinitely thin cross sections of the sample in any orientation, visualizing form, fit and function of components in complicated assemblies



Quantitative Analysis

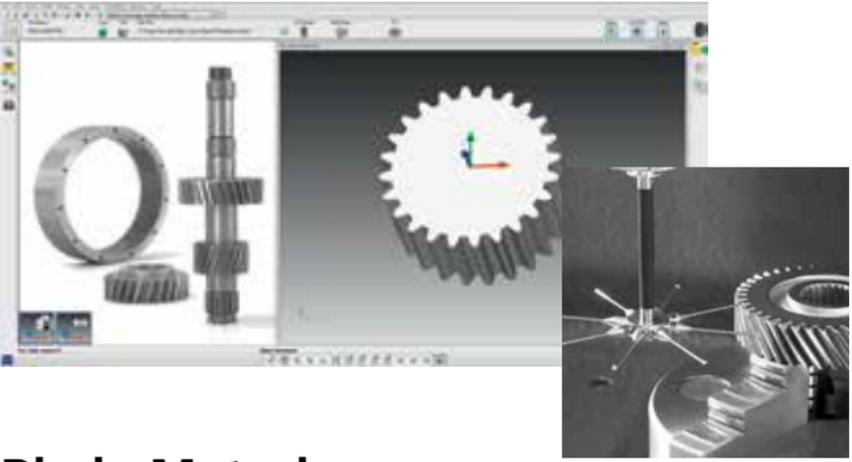
Used with the powerful Volume Graphics software, CT scans can be manipulated to investigate metrics like: wall thickness, permeability, void size and location, and more.



Gear Metrology

Inspection of Gears, Rotors and Hobs

Due to increasingly complex design, manufacturing processes, and tight tolerances, proper gear measurement and analysis has become a problem few know how to solve. With the combination of the patented VAST (Variable Active Scanning Technology) and ZEISS GearPro software, our metrologists can accurately measure tricky gear geometries.

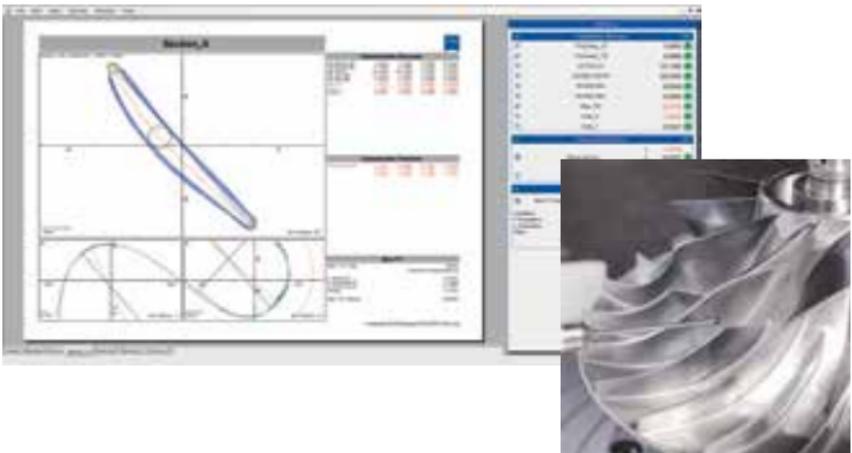


Blade Metrology

Meticulous Surface Analysis

Airfoils, Blades, and Impellers

These components create unique challenges like specific inspection protocols, equation driven surfaces, and extremely tight tolerances. Decades of work with OEMs have allowed ZEISS to develop the engineering experience and software tools to ensure accurate inspection of these parts.



Optical Measurement

ZEISS Lens Technology

Multisensor 3D Measurement

ZEISS has incorporated their renowned lens and optical technology into measurement. Each metrology lab is outfitted with an optical CMM, where the engineer can execute multisensor measurements – integrating a ZEISS XXT probe, camera and white light sensor all in one inspection. Ranging from small, touch sensitive parts to larger, more sophisticated geometries; the machines provide the data you need.



Reverse Engineering

Precision CAD Model Creation

STL Creation and Manipulation.

Together with our METROTOM (CT) or COMET (blue light) scanning technologies and reverse engineering software, ZEISS can reverse engineer point cloud data into useable CAD models, customized to your needs.



National Laboratory Network

ZEISS is a coast to coast metrology services provider for your organization with lab locations across the United States. We are here to be a partner to you delivering ZEISS guaranteed solutions.



Same Day Quoting

Contact us today for a FREE consultation. We will quote your project within one business day. All that is needed is a print and project scope description. We accept purchase orders, MasterCard, Visa and American Express.

ZEISS Guaranteed Results

With ZEISS, you are guaranteed to receive the solution that fits your needs, no matter how big or small the project.

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