



Global TechSolutions



#HandsOnMetrology
PARTNER

Metrology & Industry Quality Solutions

A practical portfolio for precision measurement, inspection and
manufacturing quality

Your Quality Challenge. One Connected Metrology Portfolio

Authorised Business Partner for ZEISS Industry Quality Solutions



One Connected Metrology Portfolio

Global TechSolutions (GTS) helps manufacturers select the right measurement and inspection technology for their application, quality requirements and production environment.

Modern manufacturing requires more than a single measuring instrument. Dimensional accuracy, surface quality, internal defects, process capability and traceable data increasingly need to work together. ZEISS Industrial Quality Solutions provides a connected portfolio spanning dimensional measurement, optical inspection, 3D scanning, CT/X-ray, microscopy and software.

GTS works with customers to understand the application first, then identify the most appropriate measurement and inspection approach. The objective is to improve quality assurance while supporting productivity, traceability and faster decision-making.

CORE SOLUTIONS

- Coordinate Measuring Machines
- Vision & Optical Measurement
- 3D Scanning
- Industrial CT & X-Ray
- Industrial Microscopy
- Metrology Software
- Automation & Data Management

Prepared for customer discussions and application discovery

The GTS Metrology Portfolio

Solution Area	Technology	Customer Value
 Dimensional Metrology	CMMs, Multi-sensor and Vision Measurement	High-accuracy dimensional inspection, GD&T, form and position
 Optical 3D	3D Scanning & Optical Measurement	Fast Surface Capture, Inspection, Reverse Engineering and Digital Workflows
 Non-Destructive Inspection	2D X-Ray And 3D CT	Internal Defects, Voids, Inclusions and Dimensional Analysis Without Disassembly
 Industrial Microscopy	Light, Digital, Laser, Electron and X-Ray Microscopy	Surface, Material, Contamination and Microstructure Analysis
 Software & Data	Zeiss Calypso, Inspect, Zen Core, ZEISS PiWeb	Measurement Programming, Analysis, Reporting and Quality Data Management

Coordinate Measuring Machines

The benchmark for high-precision dimensional measurement. ZEISS CMMs cover laboratory, production-floor and large-volume applications, with tactile and optical sensing options and software for reliable, repeatable inspection.



Precision for Every Application



Bridge CMMs

High-precision dimensional inspection; suitable for demanding tolerances and general-purpose metrology.



Shop Floor CMMs

Measurement closer to production, supporting quality assurance in manufacturing environments.



Large CMMs

Large measuring volumes for sizeable components and structures.



Optical / Vision CMMs

Fast non-contact measurement for fine features, delicate components and optical inspection.



Horizontal Arm CMMs

Large automotive and body components where reach and flexibility are important.



Sensors & Probes

Tactile, optical and additional sensing options to match feature and inspection requirements.

GOOD FIT WHEN

Critical Dimensions, GD&T, Geometric Tolerances, First-Article Inspection, Production Verification or Traceable Measurement are central to the application.



OPTICAL & 3D MEASUREMENT

3D Scanning

Capture complex surfaces quickly and turn them into usable 3D inspection data. ZEISS optical solutions support high-speed, non-contact measurement and digital inspection workflows.

3D Scanning

Full-field capture of complex geometry, surfaces and assemblies; useful for inspection, reverse engineering and design validation.

Optical 3D Metrology

High-density surface data for dimensional comparison and deviation analysis.

HandsOnMetrology

Portable and flexible measurement approaches for applications that benefit from mobility.

3D Photogrammetry

Large-volume measurement and positioning applications where scale and spatial accuracy matter.

Automated Solutions

Repeatable inspection workflows for higher throughput and reduced manual intervention.

ZEISS INSPECT Optical 3D

Analysis and inspection software for 3D scan data, including comparison and reporting workflows.

GOOD FIT WHEN

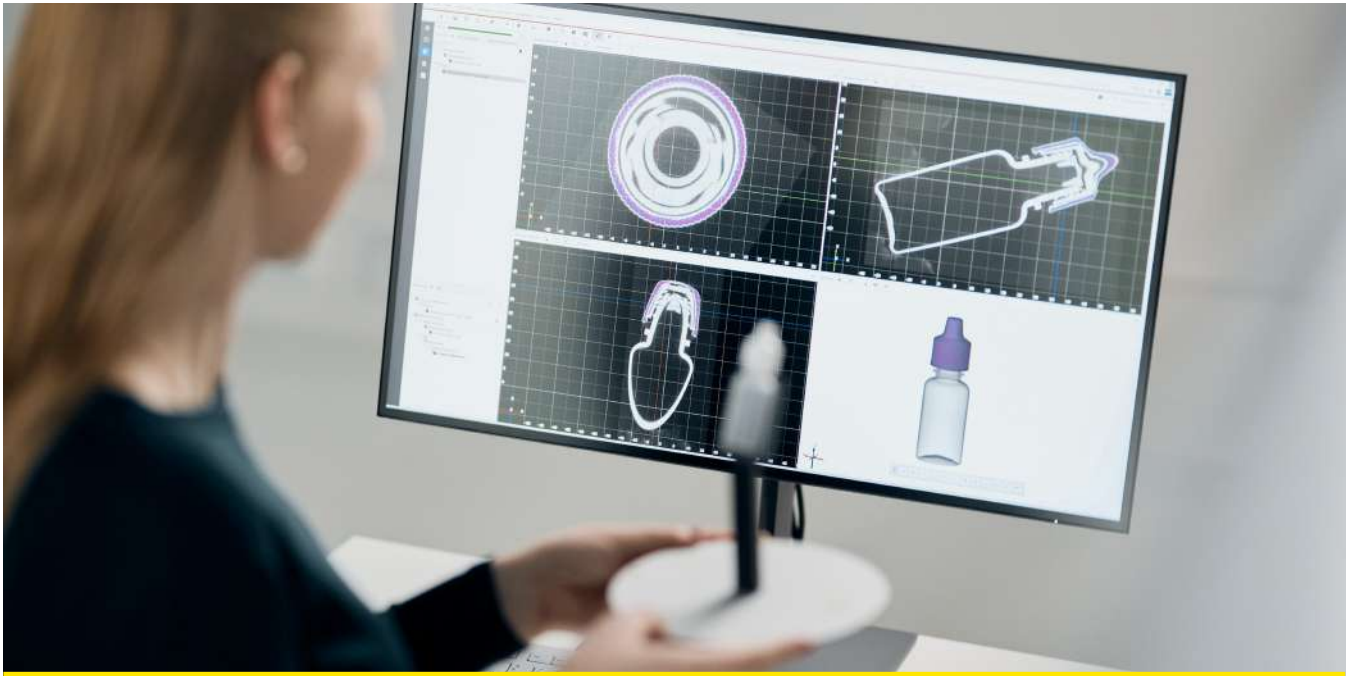
You need rapid full-surface inspection, complex free-form geometry, reverse engineering, deformation analysis or a digital representation of the part

Industrial CT & X-Ray

See things inside and out. ZEISS Industrial CT and X-Ray technologies enable non-destructive inspection of internal structures, defects and dimensions. This is particularly valuable when conventional external measurement cannot reveal what is happening inside a component.



A Clear View of Internal Quality



2D X-Ray



Fast non-destructive defect inspection, including production-oriented applications and high-throughput environments.



3D Industrial CT

Volumetric inspection and metrology of external and internal structures from a single scan.

X-Ray Microscopy



High-resolution investigation of microstructures and internal features for advanced industrial and R&D applications.



ZEISS INSPECT X-Ray

Analysis and inspection workflows for CT/X-ray datasets, supporting defect and dimensional evaluation.

Typical questions GTS can help answer:

- Are there voids, cracks, inclusions or porosity?
- Is the internal geometry correct?
- Can the component be inspected without cutting it open?
- Can internal and external dimensions be evaluated together?

Industrial Microscopy

Microscopy extends quality assurance into the micro-scale. ZEISS offers industrial microscopy solutions across light, digital, laser scanning, electron and X-ray microscopy, supporting materials, surface and failure-analysis workflows.



Stereo & Zoom Microscopes

Visual inspection, assembly and surface evaluation.

Digital & Laser Scanning Microscopes

3D surface measurement and documentation.

Wide-Field / Light Microscopy

Routine inspection, materials and laboratory applications.

Scanning Electron Microscopy

High-resolution surface and material characterization.

X-Ray Microscopy

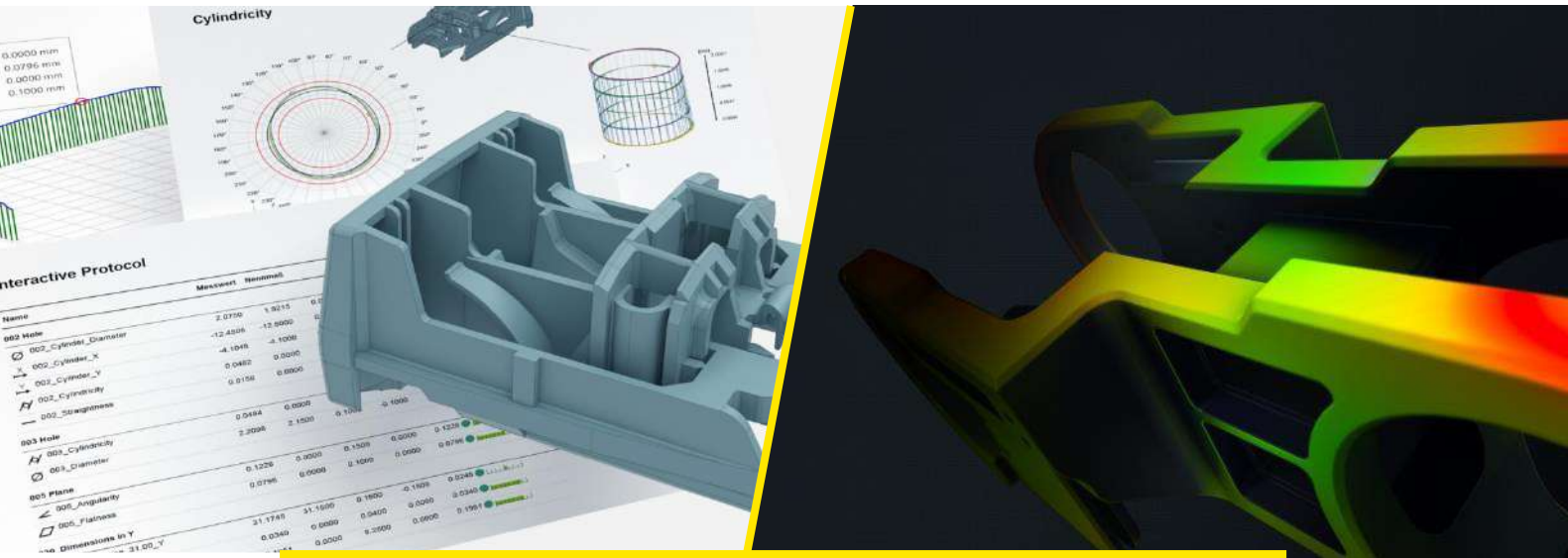
Non-destructive 3D investigation of internal microstructures.

ZEN core

Image and data analysis workflows supporting connected microscopy applications.

Metrology Software, Automation & Data

Measurement becomes more valuable when results can be programmed, analysed, compared, reported and connected to quality processes. The ZEISS portfolio includes software for dimensional measurement, 3D inspection, X-ray analysis, microscopy and quality data management.



ZEISS CALYPSO

Coordinate measurement programming and evaluation for dimensional inspection workflows.

ZEISS INSPECT Optical 3D

3D scan analysis, inspection and reporting.

ZEISS INSPECT X-Ray

CT/X-ray data analysis and inspection.

ZEISS ZEN core

Connected microscopy and image/data analysis workflows.

ZEISS PiWeb / Connected Quality

Quality data management, analysis and reporting to support data-driven decisions.

Automation & Integration

Automation options designed to increase repeatability, throughput and integration with production processes.

Where the Portfolio Fits

The right metrology technology depends on the part, tolerance, material, geometry, production environment and inspection objective. The following matrix is intended as a starting point for customer discussions, not a substitute for application evaluation.

Application	Primary	Complementary	Internal	Key Need
Machined Components	CMM	Optical 3D	CT/X-ray	Dimensional accuracy, GD&T, process verification
Plastic / Molded Parts	CMM / VMM	3D scanning	CT	Dimensions, warpage, internal defects, moulding quality
Electronics	VMM / CMM	3D scanning	CT / X-ray	Fine features, solder/joint inspection, internal defects
Automotive / EV	CMM	3D scanning	CT / X-ray	Body geometry, battery components, castings, assemblies
Aerospace	High-accuracy CMM	3D scanning	CT	Critical geometry, complex structures, NDT
Medical	CMM / VMM	Optical 3D	CT / Microscopy	Tight tolerances, complex geometry, materials and validation
Materials / Failure Analysis	-	Optical	X-Ray Microscopy	Surface, microstructure and internal analysis

From one instrument to a connected quality strategy

A customer may start with a single inspection problem, such as a dimensional deviation, internal defect or surface issue. GTS can then assess whether a different sensor, complementary technology, automation or software workflow can improve the overall inspection process.

How GTS Works With Customers

GTS takes an application-led approach. Rather than starting with a machine, GTS starts with the manufacturing problem and the required quality outcome.



Understand the application

Part geometry, material, dimensions, tolerances, production volume and inspection environment.



Define the Quality Challenge

What needs to be measured, inspected, detected or documented? What is difficult with the current method?



Select the Technology

CMM, Optical, 3D Scanning, CT / X-Ray, Microscopy, Software or a combination, based on the application.



Validate the Approach

Application Discussion, Sample-Part Evaluation, Demo or Proof-of-concept where appropriate.



Build the Solution

Equipment, Sensors, Software, Automation, Training and Service / Support Aligned to the Customer's Workflow.



Let's discuss your measurement challenge

If you have a difficult-to-measure component, recurring quality issue, inspection bottleneck, internal defect problem or requirement to improve measurement traceability, GTS can coordinate an application discussion with the appropriate ZEISS specialists.

Equipment Leasing & Financing Options

At GTS, we believe that financial constraints should never stand in the way of innovation. By partnering with leading global financial institutions, we offer flexible financing structures tailored to your operational needs.

Our goal is to help customers integrate world-class ZEISS technology into their workflow with zero capital outlay. Instead of a massive upfront investment, customers can preserve their cash flow while immediately benefiting from the industry's most advanced measurement and inspection systems.

Strategic Benefits of Our Financing Solutions

Investing in ZEISS equipment through our financing programs offers more than just tax-efficient accounting; it provides a strategic edge. It allows you to preserve capital while immediately upgrading to high-end metrology systems.



Hold On to Your Cash

Acquire the ZEISS equipment you need with virtually no cash outlay. Preserve your liquid capital for core business growth and operational needs.



Technology Refresh & Edge

Stay at the forefront of metrology. Our flexible terms allow you to upgrade to newer ZEISS technology during, or at the end of your term, ensuring you never settle for yesterday's efficiency.



Accelerated ROI

Generate income and improve quality control immediately. By deferring costs through a monthly payment plan, the equipment begins paying for itself from day one.



Fixed Costs Easy Budgeting

Lock in your payments up front with low interest rates. Protected from inflation and fluctuating interest rates, your fixed monthly costs make long-term financial planning transparent and simple.



Tax & Accounting Advantages

Depending on your structure, payments may be treated as fully deductible operating expense (OPEX) rather than a capital expenditure (CAPEX).



Total Operational Flexibility

Adapt to your business climate with variable payment schedules. We can structure your agreement to match seasonal cash flow or fluctuating revenue streams.



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LET'S TALK METROLOGY

Tell us about the part, process or quality challenge you are working on.



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Email:

Phone:

Website:

Measurement | Inspection | Quality Assurance | Digital Metrology
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Portfolio scope is based on ZEISS Industrial Quality Solutions' published 2026 portfolio and official product information. Product availability, configurations and application suitability should be confirmed for the specific customer requirement.

Sources: ZEISS Industrial Quality Solutions portfolio, ZEISS Metrology Systems and ZEISS Industrial CT/X-Ray information.