



Applied Technical Services

Dimensional Inspections Overview

We Take A Closer Look

- A2LA ISO 17025 Accredited
- CMM Inspections
- Computed Tomography Services
- FARO Laser Scanning
- 3D CAD to part Comparison
- Reverse Engineering
- 100% Dimensional Layouts
- First Article Inspections
- Surface Roughness Capabilities

Dimensional Inspection

At ATS, world class technology and automated ultra-high accuracy Coordinate Measuring Machines (CMM's) are coupled with highly experienced CMM programmers to provide the most complete Dimensional Inspection services available anywhere.

Calibrations

Our highly experienced staff and modern, fully equipped facilities offer fast, economical calibrations for all your mechanical, electrical, dimensional, and high-precision standard needs. Whether at our lab or on-site at your facility, ATS is committed to serving all your calibration needs.

Precision Instrument Sales

As a local representative of many leading metrology manufacturers, our friendly, knowledgeable sales staff can provide product information, specifications, availability, and pricing. Contact us today to see how we can serve you.

Applied Technical Services

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Precision Measuring, Gaging, and Inspection

ATS provides specialized testing and customized services for clients who need precise information. Using the finest field and laboratory equipment, our calibrations are performed in accordance with a Quality Assurance Program that satisfies nuclear, military, aerospace and commercial requirements. The goal at ATS is to provide professional enhancement of technical details so that the whole picture is revealed - and to keep your operations running smoothly.

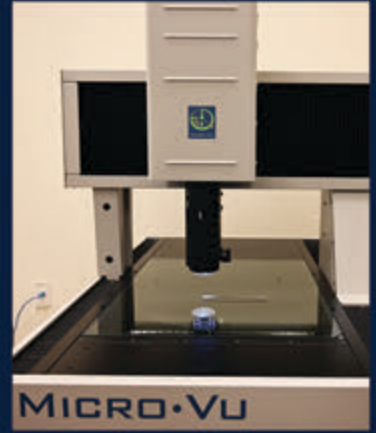
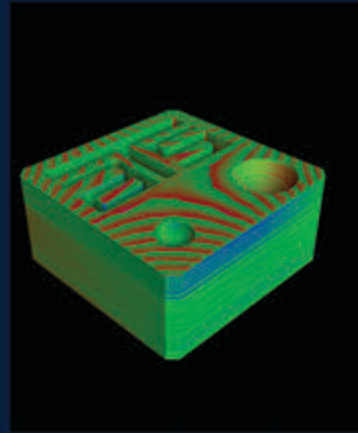
ATS is committed to ensuring:

- Strict compliance with specifications
- Timely turnarounds and response times
- Clear and accurate data

Computed Tomography (CT) and CMM Capabilities

Computed Tomography (CT) Dimensional Inspection offers the ability to inspect External and Internal Dimensions without destructive testing. Our Zeiss CT Metrotom 1500 can produce 3D solid models or .STL files for Reverse Engineering, 3D CAD to Part Comparison, Part to Part Comparisons and GD&T Measurements per Drawing Requirements.

Faro Quantam S Max 3.0 Portable CMM is the most recent addition to Dimensional Inspection Customer services. The Faro Arm allows ATS to dimensionally inspect parts at your facility implementing Blue-light Scanning teamed with Polyworks software.



Dimensional Inspection Precision Measurement

From simple linear measurements to the most complex quality-controlled assessments imaginable, ATS is committed to providing the most accurate data to ensure critical quality requirements are determined. Extensive experience combined with state-of-the-art technology allows ATS to deliver unparalleled accuracy. All Dimensional Inspections are performed in accordance with ASME Y14.5M.

The Dimensional Inspection Lab is equipped with three Ultra High Accuracy CMMs (7-10-7, 9-15-8, and 15-30-10), two Micro-Vu Vision Measuring Machines, a Zeiss CT Metrotom, Faro Laser Scanning Capabilities, Surface Roughness Instruments, and precision hand tools to accommodate your dimensional inspection requirements.

- CAD Model Inspections
- Surface Roughness Standards
- PPAP Reports
- Process Capability Studies/ CpK Studies
- Inspection Gage and Fixture Calibration
- Dimensional Inspection Assistance
- CMM Programming Assistance(PC-DMIS)

Quick Turnaround Times

ATS provides 5-7 day standard turnaround on calibration orders and 10-14 day turnaround on most repair orders. Expedited service is available upon request for an additional fee.

On-site Calibrations

ATS can also perform calibrations at your facility. This allows calibration of in-process equipment for reduced down-time and accommodates items such as Compression and Tensile Test Machines, Hardness Testers, Surface Plates, Optical Comparators and Environmental Chambers that are too large to be sent to a lab. On-site calibration is performed by a team of highly skilled professionals credentialed in diverse technical disciplines.

Quality System Standards

- ISO/IEC 17025 Competence of Testing and Calibration Laboratories
- ISO 9001 Quality Management Systems
- 10CFR50 Appendix B Nuclear Quality Assurance Requirements
- 10CFR21 Requirements for the Reporting of Nonconformances
- ANSI/ASME NQA-1 Nuclear Quality Assurance Requirements
- ANSI/NCSL Z540-1 Calibration System Requirements