

# METROLOGY & 3D SCANNING

PRECISE DATA. SECURE DECISIONS.

**HIGHEST PRECISION**  
Accurate measurements in micrometer range for reliable results.

**3D DATA ACQUISITION**  
Detailed 3D data capture for complete analysis and inspection.

**RELIABLE & TRACEABLE**  
Reliable results with full traceability for documentation.

**EFFICIENT**  
Efficient workflows for faster decisions and higher productivity.



**MEASUREMENT**  
High-precision data acquisition for accurate measurements.

**3D SCANNING**  
Detailed 3D scan capture for comprehensive surface data.

**DATA PROCESSING**  
Advanced analysis and CAD comparison for precise insights.

**DOCUMENTATION**  
Comprehensive reports for traceable and secure documentation.



**HIGHEST QUALITY**  
Perfect quality assurance for outstanding results and satisfied customers.

**PROCESS SAFETY**  
Stable processes through reliable data and full traceability.

**SUSTAINABILITY**  
Less material waste and resource-conserving processes.

## Quality & Testing

### Metrology & 3D-Scanning

#### BACKGROUND

The geometric accuracy of components is critical to their function and integration into complex systems. Therefore, precise measurement and analysis are central components of modern manufacturing processes. In the aerospace industry in particular, comprehensive documentation is required to verify compliance with tolerances and to safeguard warranty claims. At the same time, measurement data provides valuable information about the condition of the machines and enables early corrections before defective components are produced.

#### TECHNOLOGY

Modern measurement systems are used at Chesco to capture geometric data. These include coordinate measuring machines and optical 3D scanning methods. The captured data can be compared with digital models to identify deviations and correct them in a targeted manner. In addition, reverse engineering is used to digitally reconstruct and further develop existing components.

#### ADDED VALUE

- Precise measurement of component geometries
- Comparison with digital models
- Identification of deviations
- Support for optimization processes
- Basis for reverse engineering
- Quality assurance
- Compliance with tolerances
- Reduction of scrap
- Time savings



Center for Hybrid  
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