

COMPONENT ENGINEERING

QUALITY. ASSURANCE.

Quality. Assurance.

Component Engineering are experts in designing and building the inspection tools you need to ensure quality finished parts.

We offer a range of options, from simple pass/fail to more complex automated inspection solutions that capture, analyze, and report variable data results. Each solution is custom designed and built to ensure finished parts meet customer defined tolerances and specifications.

PRODUCTS AND SERVICES

AUTOMATED INSPECTION



Standard Features

Work Cell – Frame with enclosure and safety features; Fixture with pneumatic clamping; Controls including programming, wiring, and integration; Part Master

User Interface – Custom User Interface with controls

Ongoing Support – Replacement Parts, Operation and Service Manual, Operator Training and Support



Customization Options

Inspection Technology – Air Gage, Vision, Laser, TruPosition Probe with custom tip

Material Movement – Conveyance; Robotic Load / Un-Load

Material Tracking – Barcoding; Traceability Integration

Data Collection and Reporting – Variable Data Display with Report Options; Statistical Process Control (SPC) Trending

Additional Enhancements – Remote Programming and Monitoring; Multi-Part Testing Stations



Platforms

Fuel Rail | Die Cast | Roll Form

COMPONENT ENGINEERING CAPABILITIES OVERVIEW

GAGES AND TESTING FIXTURES

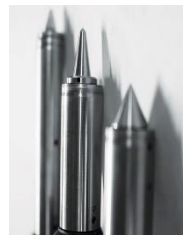
Attribute Fixtures
Variable Data Fixtures
CMM Holding Fixtures
Weld Fixtures

Vibration Fixtures
Environmental Fixtures
Photometric Fixtures



FIXTURE COMPONENTS

TruPosition® Probes



Digital Probes
Manual Probes
Analog Probes

LVDT Probes
Pneumatic Probes
3rd Axis Probes

Probe Accessories

3rd Axis Probe Certification Master
Analog Interface Cable
Custom Probe Tips

Digital Interface Box / Cable
Offset Calibration Master Bushings

ADDITIONAL CAPABILITIES

CMM Lab

The climate-controlled lab provides a stable environment to accurately layout and certify gages.

CMM Machine	Work Envelope	Software
Checkmaster	36" L x 26" W x 17" H	IQ-Metrology CMM Manager Software
Helmel	60" L x 40" W x 24" H	IQ-Metrology CMM Manager Software
LK	120" L x 60" W x 40" H	PC-DMIS Software

Wire EDM

Used to create TruPosition probes and automated inspection cell details with absolute accuracy.

Equipment Esprit/w Software; 2 4-axis Charmilles EMD machines
Work Envelopes 17.25"x12.25"x7.25"; 16"x11"x15"

LET'S HAVE A CONVERSATION

Contact Us

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Find Us

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