

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

COMPONENT ENGINEERING CAPABILITIES OVERVIEW

GAGES AND TESTING FIXTURES	Attribute Gages Variable Gages 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 3 rd Axis Probes
	Probe Components CMM Tooling Aids Indicator Adaptors and Holders Orientation Rings Probe Blocks SPC Triggers and Set Masters Stop Screw Set	Probe Accessories 3 rd Axis Probe Certification Master Analog Interface Cable Custom Probe Tips Digital Interface Box / Cable Offset Calibration Master Bushings
ADDITIONAL CAPABILITIES	CMM Lab Climate controlled lab provides a stable environment to accurately layout and certify gages. <ul style="list-style-type: none">• Equipment – Check master CMM’s with IQ-Metrology CMM Manager software• Work Envelopes – 26”x36”x17”; 50”x60”x26”	Wire EDM Used to create TruPosition probes and Automated Inspection Cell details with absolute accuracy. <ul style="list-style-type: none">• 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

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Find Us

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