

ROLL FORM AUTOMATED INSPECTION PLATFORM

AUTOMATING BETTER OUTCOMES, TOGETHER.

The job of ensuring quality is more complex than ever. Roll formed parts require hole alignment and profile measurements are precise, weld nuts are present, and welds are inspected to ensure quality finished parts. Surface defect detection is equally important to ensure consistent quality finished parts.

Our **Roll Form Automated Inspection Platform** ensures finished parts meet end-customer requirements. Inspection options include enhanced reporting and material handling options to streamline your manufacturing process and supplement your workforce.

PERFORMANCE HIGHLIGHTS

- End-of-line inspection eliminates the need for time consuming fixture or CMM part checks.
- Each automated inspection work cell is designed and built to your unique specifications, tolerances, inspection, and reporting needs.
- Average 25-second cycle time for 50 points of measurement.
- Designed to allow for at-build or future integration of robotic part load / unload.
- Cycle time enables future capacity expansion without additional inspection costs.

STANDARD MEASUREMENTS

- True Position of mounting hole
- Profile measurements of tube / brackets
- Go/No-Go measurement of all other holes
- Weld nut presence check
- Temperature measurement
- Automated temperature / dimensional compensation
- Optional blue/red light laser scanning for weld inspection

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PLATFORM FEATURES AND CUSTOMIZATION OPTIONS

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
Repeatability and Reproducibility	< 10% on all features – tolerances from 0.015mm to 1.0mm Correlation Inspected to the same criteria and standards of a traditional CMM process

CUSTOMIZATION OPTIONS

Inspection Technology	Mahr Metrology Air Gaging Technology 2D, 3D Vision LVDT Laser TruPosition Probe with Custom Tip Blue/Red Light Laser Scanning for Weld Inspection
Material Movement	Conveyance Robotic Load / Unload
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 Weld Fixture Up-Stream Process Check

LET'S HAVE A CONVERSATION

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