



Component Engineering Non-Contact Air Gage Automated Inspection Platform

Our non-contact **Air Gage Automated Quality Inspection platform** for Die Cast applications verifies multiple bore diameters, True Position of critical hole locations, and profile and parallelism of mating surfaces to deliver 100% inspection and variable data reporting in less than a 60-second cycle time.

WHY CONSIDER A NON-CONTACT AIR GAGE SOLUTION FROM COMPONENT ENGINEERING?

We know what we are doing. We have over twenty years of experience in designing and delivering automated inspection solutions for high tolerance, high-performance requirement components.

Your competitors are already using us. Component Engineering is the preferred supplier to major die cast manufacturers throughout the Midwest.

Our solution is better, faster, and cheaper than any other option available. 100% inspection across all check points in 60 seconds or less.

We integrate the latest technology. Our expertise includes the latest automated quality inspection and manufacturing 4.0 friendly technology.

OUTCOMES AND BENEFITS FOR YOUR BUSINESS

Improved Efficiencies – In-line inspection work cell eliminates need for handheld air gages or CMM inspection and reduces inspection cycle time. Options for at-build or future integration of robotic part load and unload.

Accurate Quality Outputs – Correlation work gives confidence that each part is inspected to the same criteria and standards of a traditional CMM process.

Repeatability and Reproducibility - <10% on all features – tolerances from 0.03mm to 1.00mm.

Custom Designed and Built – Each automated quality inspection work cell is designed and built to your unique specifications, tolerances, and inspection needs.

FEATURES, OPTIONS AND MEASUREMENTS



Standard Features	Mahr Metrology air gaging technology Repeatability and Reproducibility - <10% on all features – tolerances from 0.03mm to 1.00mm. Correlation to CMM and attribute fixtures Frame with enclosure and safety features Fixture with pneumatic clamping	Intuitive user interface with user controls Controls, including programming, wiring and integration Part Master SPC Trending Replacement Parts Operations and Service Manual Operator Training and Support
Customization Options	TruPosition probe tip customization Advanced Inspection Technology, including robotic and vision integration	Perpendicularity measurement Remote programming and monitoring capability Traceability enabling
Standard Measurements	Min / Max / Mean Bore Diameter True Position of critical hole locations Profile and Parallelism of mating surfaces	

WE ARE COMPONENT ENGINEERING

Component Engineering are experts in designing and building custom quality inspection solutions that ensure our customers deliver quality parts, 100% of the time.

We Deliver

- Quality Assurance
- Turn-Key Solutions
- Improved Results

Contact Us

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We Specialize In

- Automated Inspection
- Gages and Fixtures

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