

# DIE CAST AUTOMATED INSPECTION PLATFORM

## AUTOMATING BETTER OUTCOMES, TOGETHER.

The job of ensuring quality is more complex than ever. Die cast parts have tight tolerances, requiring highly accurate dimensional inspection. Surface defect detection is equally important to ensure consistent quality finished parts.

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

### INSPECTION CAPABILITIES AND TECHNOLOGY

DIMENSIONAL INSPECTION	CONTACT	NON-CONTACT
Clear Through / Diameter Check		2D
Cylindricity		Air Gage
ID/OD		Air Gage
Parallelism	LVDT	Air Gage
Perpendicularity	LVDT	Air Gage
Profile	LVDT	Air Gage
True Position	TruPosition Probe	2D
DEFECT INSPECTION		
Blistering		3D
Feature Absence or Presence		2D, 3D
Porosity of Machined Surfaces – Down to 0.2mm		Laser Profile
Surface Defects		2D
Tight Tolerance Defect Detection		3D

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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
Standard Inspection	100% Inspection of all Housings Multiple bore diameters – 0.15mm tolerance True Position of alignment holes Profile and parallelism of mating surfaces
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
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

### LET'S HAVE A CONVERSATION

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