

ROBOTIC 3D SCANNING

AUTOMATED QC & PROCESS IMPROVEMENT

ARIS

AUTOMATED ROBOTIC INSPECTION SYSTEM

Automotive Metal Parts Quality Control (QC) Case Study

ARIS VS Coordinate Measuring Machine (CMM)

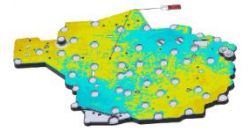
ARIS outperforms a traditional CMM in:

- Inspection Speed
- Coverage Points (Resolution)
- Cost of Ownership

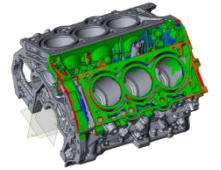
The ARIS simple to use touchscreen interface and fully automatic operation will help fine tune your production processes and increase your profit.



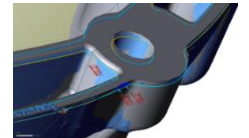
FLATNESS INSPECTION: This die cast part has critical flatness requiring a high inspection rate. Production is thousands of units per day.



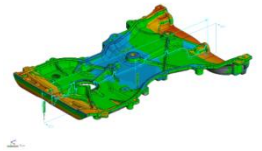
ENGINE BLOCK: This has critical surfaces that must be machined for final assembly. The inspection is required to ensure enough material is present to machine down to final dimension. Production is hundreds of units per day.



Chip Repair: This die cast part has thin areas that do not fill in the production tool. Production is hundreds of units per day.



Warping: This part has warping issues due to the shape and size of the part. For its functionality, the part needs to fit to mating casting with a tight tolerance. Production is hundreds of units per day.



Data Capture Time & Number of Data Points	CMM	ARIS
Flatness	12 mins / part 100 points	1 mins / part 1MM points
Engine Block	25 mins / part 140 points	2 mins / part 2MM points
Chip Repair	25 mins / part 150 points	2 mins / part 2MM points
Warping	21 mins / part 100 points	2 mins / part 2MM points