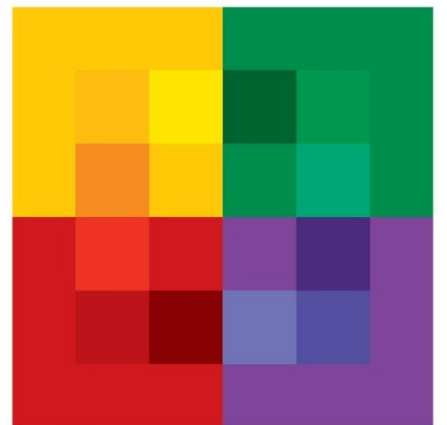




ADVANCED VISION INSPECTION  
**CASE STUDY**  
LATEST CUSTOMER SUCCESS



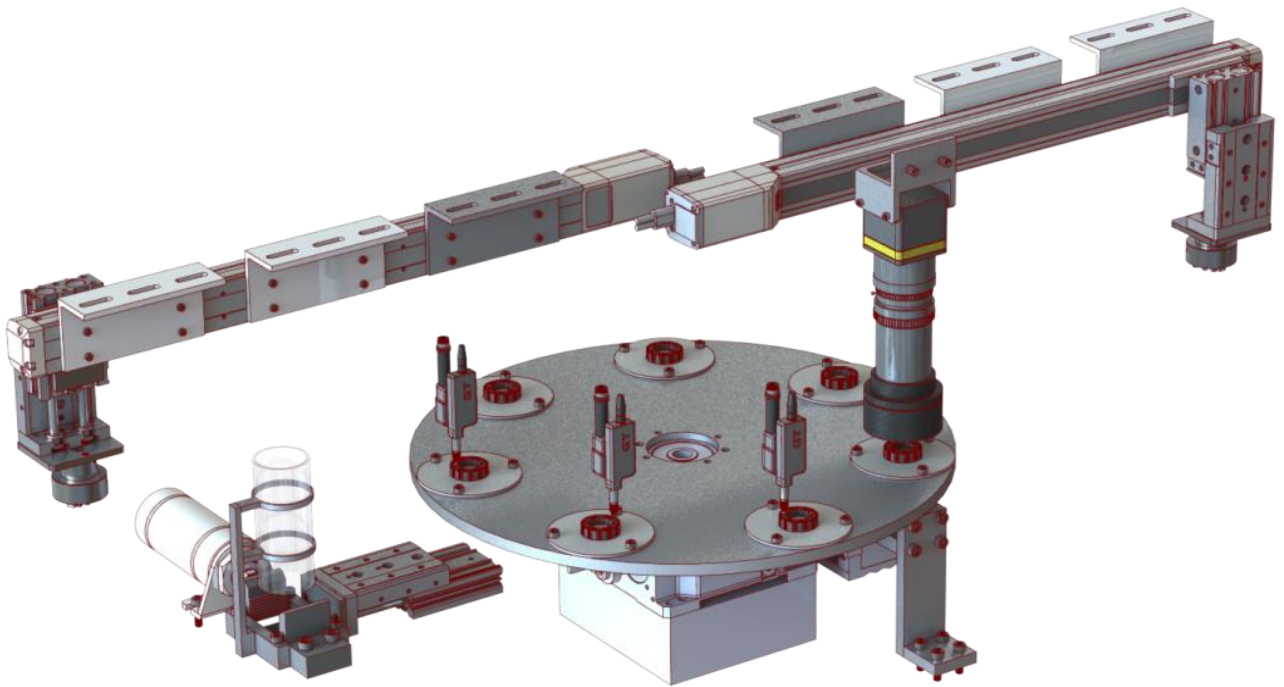
**MATROX**  
I M A G I N G

# ADVANCED VISION INSPECTION

**CUSTOMER:** Prominent Metal Stamping Company

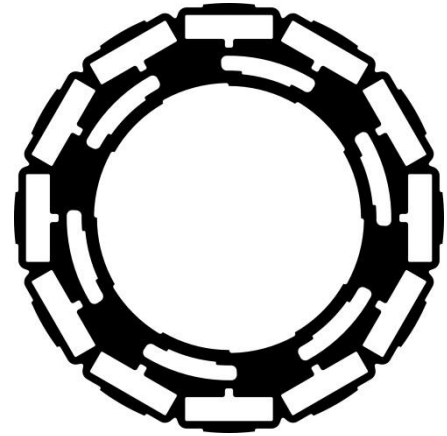
**PROBLEM:** Tier 1 Automotive Customer Requires 100% Inspection of Critical Steering Component

**SOLUTION:** Compass Automation Develops Advanced Vision Inspection System Automation



# AUTOMATION CHALLENGES

- Small Field of View (1.25" Diameter)
- Measure over 100 Geometric Features
- Tolerance of +/- .0001 inches
- Cycle Time of 60 parts per minute
- Deliver a Pass/Fail in under 1 second



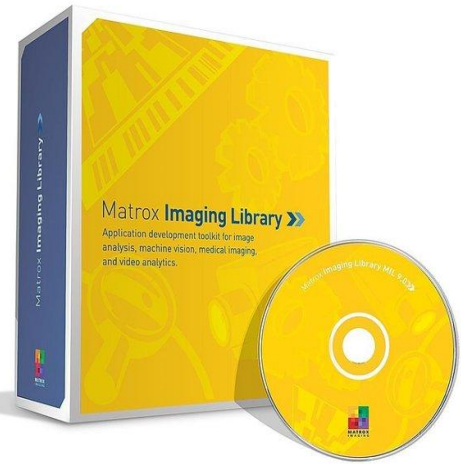
Actual Part Size 1.25"



# COMPASS DELIVERS

**Compass Automation Engineers** develop a custom software solution using the .NET Platform and Matrox Imaging libraries.

The system utilizes new technology using a **16 megapixel camera** to deliver a 4904 x 3280 pixel image to the software.



**With sub-pixel accuracy, this allows measurements in the sub micron range.**



**CUSTOM COMPASS SOFTWARE  
ALLOWS OVER 100 MEASUREMENTS  
AND DELIVERS A PASS FAIL IN UNDER  
300 MILLISECONDS.**



# COMPASS DELIVERS

**The Custom Automation** measures the part via Advanced Vision System and checks flatness using High Precision Lasers, all in under 1 second.



**By partnering with Compass,** the Metal Stamper was able to win the Tier 1 Automotive Business and has since placed orders for 2 additional Systems.

