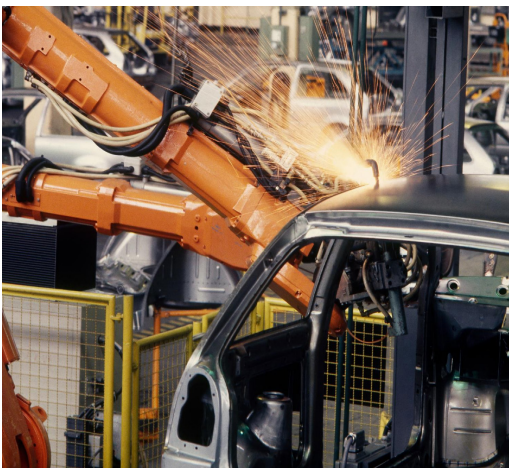


Machine Vision: Automotive

We Have The Know-How to Find a Solution for Your Automotive Vision Applications

The automotive industry has seen significant changes in recent years. A modern car contains thousands of components, each must be assembled with great precision, in the correct order and be fully traceable. In-line quality control by means of vision technology are essential to the production and assembly processes. In the automotive industry, CXV Global works directly with vehicle manufactures, supply chain companies and systems integrators.

Our Machine Vision Systems Have Been Safeguarding Production Processes of Automotive Manufacturers for Years

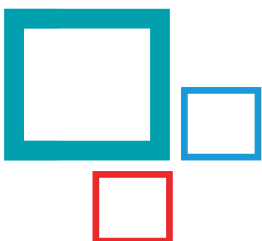


Solutions

Product, operational tests and inspections at different stages of the value chain are implemented to avoid product recalls, ensuring end-user security, safety and industry compliance.

Successful Solutions in:

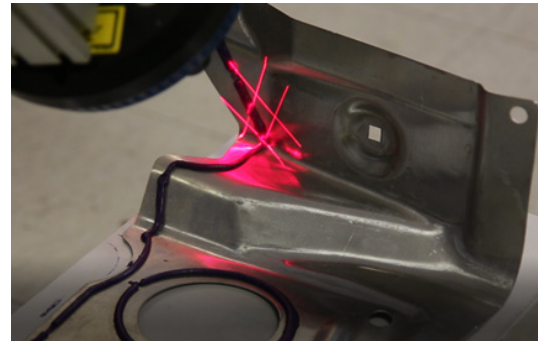
- Powertrain
- Battery cell and pack assembly
- Stamping
- Body in white
- Chassis
- Trim and final assembly
- End of line inspections
- Process and quality control,
- Component and assembly inspection,
- 2D / OCR track and trace, In-line RTV gasket inspection,
- 3D (weld inspection, Robot guidance, part picking, thermal imaging...)



3D Vision Applications

Inline 3D laser inspection

Predator3D integrates machine vision verification and process control into adhesive & sealant dispensing robotic systems. It ensures the correct adhesive and/or sealant volume is dispensed at the correct right location in real-time with no cycle time impact, thus minimizing excess sealant. Predator3D uses 4 lasers to inspect bead size, volume, and location, and detects any gaps or “neck-downs”. Z tracking compensates for part variation by enabling the robot to adjust nozzle height in real-time during dispensing.



DOT Code Reading

Reading DOT (“Department Of Transportation”) Production dates applied to tyres have been notoriously difficult to inspect due to the challenges posed by the surface substrate, minimal character height and font variations. Utilising 3D vision in combination with “Deep Learning” software has seen huge advances in the ability to reliably read these codes, with our systems now reading and verifying the codes, with a maximum of 1 misread code per 8 hours shift.

Deep Learning in Automotive

Powerful deep learning technology solves today the most challenging applications. Combining artificial intelligence (AI) with standard vision software, it automates and scales complex



World leading partner providers

CXV Global’s technical expertise is complimented by partnerships with industry leading software and hardware vendors including Cognex and Coherix. With these best in class partners our Design & Development engineering team can tailor and integrate solutions specifically to your needs

Coherix **COGNEX**



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