

Spot Weld Inspection

... that's designed for robots.



Functionality

XARION's approach to spot weld inspection is radically different from other methods: it works at several millimeters stand-off, without physical contact to the car body. This method has been designed for robotic inspection from the start, in contrast to manual methods that have been tweaked for robotic use. This brings a fundamental advantage: it works with an otherwise unachievable tolerance to misalignment of several millimeters. Hence, XARION's spot weld inspection system is a natural match for industrial robots in a real-life production environment. Compared to state-of-the-art manual inspection, this fully automated high-speed solution reduces inspection costs by a factor of ten.

Features

- Reduction of inspection costs by a factor of 10
- Inspection time: 5 seconds per spot weld
- Throughput: 8000 spot welds per day
- Measurement accuracy: better than 300 μm
- Tolerance to misalignment: 5 mm
- Robust against surface inhomogeneity



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