

QUALITY ASSURANCE IN SOLDERING

At a glance

Inspection of soldered seams, e.g. on roof seams of vehicles

Challenge

Current regulations in vehicle construction require the implementation of quality assurance already in the design stage of a new model through continuous weld monitoring; a vehicle model process control is therefore necessary. This is the challenge in the cooperation with plasmo. There are about 4 - 5 suppliers in this area. In view of the versatility of the tasks, a flexible and versatile partner in all matters relating to quality assurance is required. The expertise, the process and the cost-benefit ratio at plasmo is innovative and convincing. For many years already, plasmo Industrietechnik has focused on quality assurance and is thus in a position to deliver the best solutions for every application in the quality assurance for joining processes. Applications have been implemented in a wide range of tasks tackled jointly with automotive specialists or customers from the metalworking industry. The goal is to replace the currently used manual soldered seam inspections by a fully automated testing system in a subsequent step. Quality optimization is one of the major focuses of our work to avoid any problems in the subsequent process.

Solution

The different passenger cars are produced in multiple manufacturing stages on one line operating according to the same principle. The profileobserver compact is a camera-based system that performs process control directly after the soldering process. Its impressive features include ruggedness, speed and flexibility.

- Immediate result (as is well known from practical experience, the assessment of welds is very time-consuming and cost-intensive)
- Non-destructive
- Efficient
- Unproblematic integration into serial processes
- Features for additional evaluations
- Ease of use
- Flexibility
- Low-maintenance

A 100-percent pore control allows for the detection and correction of any defects present in the soldered seam already in the bodywork construction stage.



Optimal and cost-efficient results can thus be achieved for all customers in the long run. Over and above guaranteeing a very high quality standard, the innovative solutions from plasmo ensure an efficient production process.

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