

Robotic Handling & Leak Test Cell

TQC have supplied a robot cell that integrates with a moulding machine for the fully automatic assembly and testing of automotive moulded plastic sensors. A repeat system has been installed to meet increased production volumes.



This robot cell includes automatic handling, component bowl feeding, automated leak testing, passed and failed part segregation and automatic packing of automotive moulded plastic sensors.

The system integrates a 6-axis robot handling 6 inserts from a bowl feeding system into 6 moulds located in a mould tool fastened to a rotary table. On completion of the over moulding process assemblies are transferred to a cooling system using the robot and indexed to a position to be leak tested. On completion of the leak test the tested moulding are manipulated into pass/fail/sample chutes to be dropped into packing boxes/bins

Key Features

- 6-axis robot with multi-part gripper
- Bowl feeding equipment
- 6 up part handling
- Automatic load and unload
- 6 leak test modules
- Cooling system for stable leak testing
- Vision inspection using multiple cameras
- Passed / failed parts transfer system.

