

Leak Test Cell with Robotic Handling

Client: Leading Plastic Moulding Company

Part: Automotive Tyre Pressure Sensor

Machine supplied: Leak test cell with automatic robot handling of parts

Overview: This system was designed and manufactured in order to give the customer the ability to automatically produce 100% checked parts in high volume.

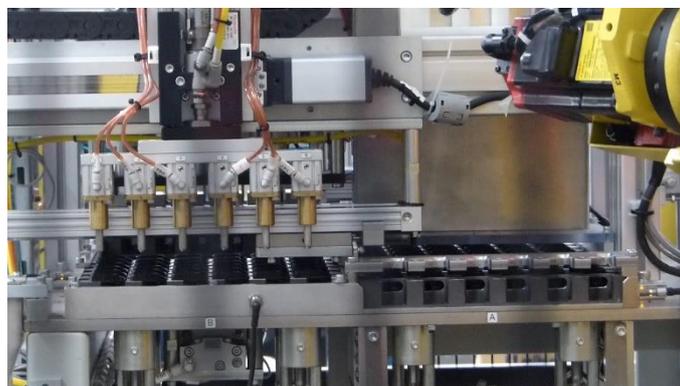
This robot cell includes automatic handling, component part bowl feeding, automated air decay leak testing using Multi-Application Leak Tester units, passed and failed part segregation and automatic packing of automotive moulded plastic sensors.

The system integrates a Fanuc 6-axis robot handling 6 inserts that are fed from bulk using a vibratory bowl feeding system, and places the parts into 6 moulds located in a mould tool fastened to a 2-position indexing rotary table. On completion of the over moulding process finished assemblies are transferred to an indexing cooling system using the robot. Once the assemblies are at a stable temperature, they are leak tested. On completion of the leak test, the tested mouldings are manipulated into pass/fail/QC sample chutes to be dropped into packing boxes/bins.



Leak Test Cell Key features:

- Fully automatic assembly and leak test cell
- Customer supplied overmoulding machine with 2-position indexing table
- 6-axis robot with multi-part gripper
- Vibratory bowl feeding equipment for metal inserts
- 6 up part handling
- Automatic load and unload
- 6 MALT leak test modules
- Final assembly cooling system to ensure stable leak testing
- Vision inspection of component parts and final assembly using multiple cameras
- Passed / failed parts transfer system.



If you have an application that could benefit from TQC's expertise in leak testing, automation and robotics, please contact us by email or phone via the contact details

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