

3 Machine Suite for Assembly, Cleaning & Testing of Nissan Cylinder Head Cover

Leak Test Machine

This machine was designed to check for the presence of 4 brass inserts and to perform 4 bi-directional leak tests on the 4 oil seals



- Light guard access for manual load/unload
- Furness Controls Leak Test Units
- Twin pillar leak test fixture
- Eight leak tests performed
- Presence check for 4 Brass Inserts
- Pryor percussion marker
- Mitsubishi FX PLC and GT1155 colour touch screen graphical HMI
- Maximum leak rate of 1cc/min @ 0.2 bar
- 50 second cycle time

Oil Seal Insertion Machine

This machine was designed to automatically insert 4 oil seals into the CHC Moulding and check for Presence, correct insertion depth and orientation.



- Light guard access for manual load/unload
- 4-position, 2-axis gantry
- Seal orientation & position detection
- Pass mark
- Mitsubishi FX PLC and GT1155 colour touch screen graphical HMI
- Removable tooling
- 40 second cycle time



Weld Debris Removal Machine

This machine was designed to check for blockage in two internal ports on the baffle plate and vacuum clean weld debris from inside the baffle plate cavity

- Light guard access for manual load/unload
- Port blockage test
- Debris cleaning via vacuum connection and part vibration connected to an industrial vacuum cleaner
- Automatic connection and sealing to 4 openings
- Pass mark
- Mitsubishi FX PLC
- 50 second cycle time

