

## Automotive Plug Feed and Check System



TQC designed and manufactured a standalone machine for the automatic feeding and checking of an automotive plug.

Utilising an elevating hopper and vibratory bowl feeder to accept bulk product and orientate each plug, a laser measurement system is incorporated to check a feature on the product. The plug is transported through the machine using a walking beam and the part is rotated a full 360 degrees.

The customer required a 100% check to ensure that a continuous bead of thread locking sealant is the correct thickness and continuous round the flange.

The system accommodates a single size of stud at any one time, but is adjustable for sizes from M10 to M20, the overall throughput was 20 studs per minute.

- Elevating Hopper & Bowl Feeder
- Laser displacement measurement system
- Walking beam transfer system
- PLC Control

