



Assembly and testing line for TPO sensors

Product description

This assembly and testing line is used for the automatic production of crankshaft and camshaft sensors with TruePowerOn function (TPO). The assembly of the workpiece carriers with individual parts and cable sets, and the removal of the finished parts is carried out at two manual workstations. All other production steps are fully automated.

Field of application

Manufacturing and production of TPO sensors



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Technical data

Test bench/device

- Conveyor line with workpiece carriers
- Eight production stations

Software

- TST-Win under Windows
- L-Robot for robot control
- SPS, Siemens company

Scope of testing

- 2x manual workstation
 - Equipping the workpiece carriers with components and cable sets
- Interlocking system
 - Automatic interlocking between sensor housing, cable set and locking element
- 2x robot soldering stations
 - Automatic soldering of sensor connections and cable sets
- 1x solder point control unit
 - Measurement of the solder points and evaluation of the results
- Final testing station
 - Part handling by robot
 - Testing according to customer specifications (max. 60001/min, distance 0-5 mm, angular resolution 0,025°)
- Laser marking system
 - Vehicle logo, Data Matrix Code
 - Production code, part number, worker number
 - Error code for n. OK Parts
- Transfer system, workpiece carrier and data handling
 - TS2 Company Bosch
 - Standard workpiece carrier with special attachments
 - Data carrier Moby-I mounted under the workpiece carrier
- Writing and reading the data in each station

Input-/visualisation units

- Monitor
- Keyboard

Dimensions/Transport

- Approx. 4000x2500x10000 mm (WxHxD)
- Weight approx. 3400 kg

Test time

- 6,5 s

Exemplary device type

- VOL 921