KNOW HOW TO TEST iT







Bumper test system | Maxi with robot cell

Product description

The robot test cell is used for End-of-Line testing of completely assembled automotive bumpers.

In this case, the operator only has to load and unload the bumpers manually.

After the transfer of the construction order by the customer's production flow system, the test is fully automatic. The electronic inspection examines the installed sensors and electronic components for presence and their function according to the manufacturer's specifications. Meanwhile, a lightweight robot checks certain optical or metallic test features for presence or variant. The test results are then reported back to the customer's production flow system and documented.

The robot cell is designed as a door solution so that it can be loaded at the front and removed at the back.

Field of application

Quality control and End-of-Line test in the production/manufactoring area

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Technical data

Test bench/device

- Robot test cell with safety roller door on the front and back side
 Two 6-axis lightweight robot incl. robot head for camera and inductive sensor
 Safety roller shutter serves for the simultaneous sealing off of extraneous light
- Measuring, testing, control and supply technology in maxi version (switch cabinet)

Software

- TST-WIN testsystem
 - All settings and sequences menu-driven freely programmable
 - Extensive possibilities for controlling the sequence and the measurements
 - Visualization of test results by means of a table of measured values and additional graphic display
- Module "Remote maintenance" enables remote access by ITronic service personnel
- Module "MES" enables variant-dependent testing by a higher-level system
- Module "ITDB", incl. ViTronic, enables evaluation and statistical processing of measurement data
- Module "Image processing and image documentation" enables the use of cameras
- Module "Robotics" enables the integration of robots into the test process

Scope of testing

- Electronic testing (according to manufacturer's specifications):
 - Ultrasonic parking aid sensors including distance measurement
 - Radar sensors, cameras
 - Optical inspection:
 - Trim mouldings, bezels
 - Cover caps, radiator grille
 - Impact absorber, license plate holder
 - variant characteristics
- Inductive testing of metallic installation and variant characteristics

Input-/visualisation units	Dimensions/Transport
 Keyboard Monitor Barcodescanner (manually) Button box Labelprinter Laserprinter 	 Approx. 2830 x 2800 x 3000 mm (WxHxD) Weight approx. 2500 kg Heavy-duty castors Forklift base tubes Crane lugs
Test time	Exemplarly device type
Individual, depending on test scope	• 105 6852

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