



## Bumper testing technology | Maxi with robot cell

### Product description

The robot cell is used for end-of-line testing of fully assembled car bumpers. In this case, the operator only takes on the manual loading and unloading of the bumpers.

The electronic test examines the built-in sensors and electronic components for presence and their function according to the manufacturer's specification. Meanwhile, a lightweight robot checks certain optical test features for presence or variants. The resulting test results are then reported back to the customer's production flow system and documented.

### Field of application

Final assembly, quality control, end-of-line testing in production/manufacturing



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### Technical data

#### Test bench/device

- Robot cell with front safety roller door
  - A 6-axis lightweight robot including a robot head for the camera
  - The security roller door is used for the simultaneous isolation of extraneous light
- Measuring, testing, control and supply technology in maxi version (switch cabinet)

#### Software

- **TST-WIN test system**
  - All settings and processes are menu-driven and freely programmable
  - Extensive options for controlling the process and the measurements
  - Visualization of the test results using a table of measured values and an additional graphic display
- Additional switching of 5 modules possible:
- Montage allows for the integration of operator prompts and monitored tools
  - "Remote maintenance" enables remote access by ITronic service staff in the event of a fault
  - "MES" enables variant-dependent testing by a higher-level system
  - "ITDB" incl. ViTronic enables the evaluation and statistical processing of measurement data
  - "Image processing and photo documentation" enables the use of a camera
  - "Robotics" enables the integration of robots into the testing process

#### Scope of testing

- Power check
- Installation test
- Route of the pedestrian protection hose

#### Input-/visualisation units

- Monitor
- Keyboard
- Barcodescanner
- Printer

#### Dimensions/Transport

- 4170x2700x3050 mm (WxHxD)  
Weight approx. 1800 kg

#### Test time

- Individual, depending on test scope

#### Exemplary device type

- 105 5931