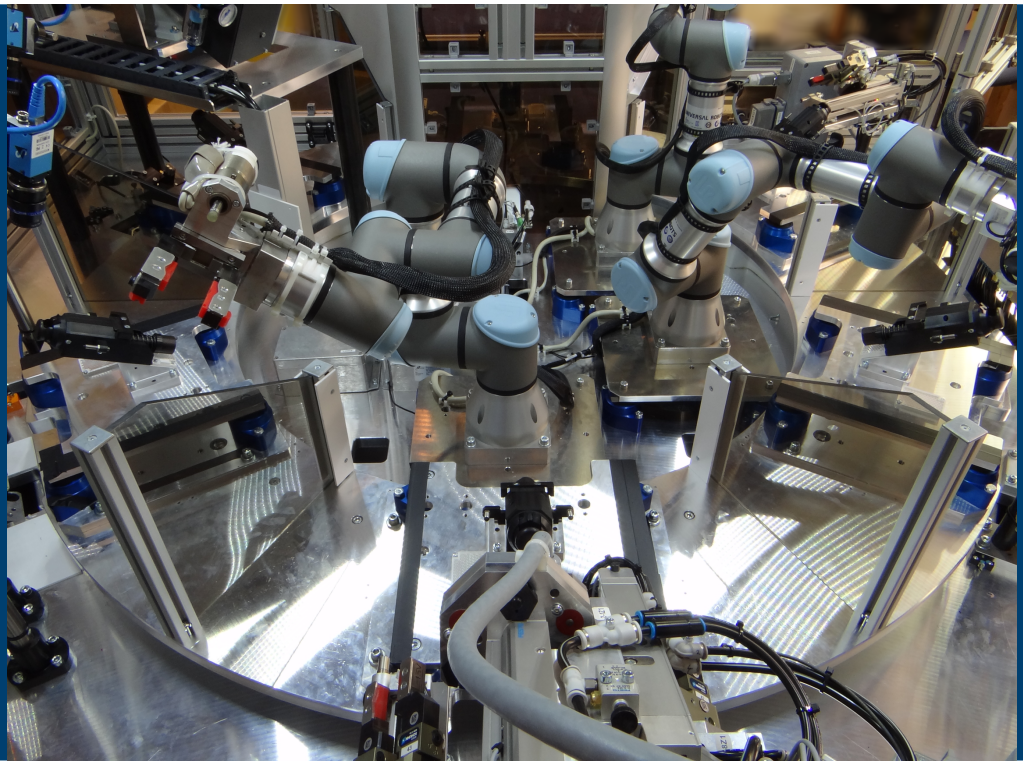

Test system for steering column switch modules in a robot cell

Product description

In the test cell, the steering column switch module runs through three robot test stations in which the lever movements are carried out and the buttons are pressed, a station in which the printed symbols are checked using high-resolution industrial cameras and a station that automatically prints and applies a product label. The throughput is realized with the help of a clocked indexing table.

Field of application

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

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Test system for steering column switch modules in a robot cell

Technical data

Test bench/device

- Base frame made of tubular steel, welded
- Indexing table for 6 stations
- Three 6-axis lightweight robots
- Six cameras for image processing
- Measuring, testing, control and supply technology in the control cabinet
- Separate „not okay“ belt for process-reliable filing of not okay parts

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
- The "*remote maintenance*" module enables remote access by ITronic service employees
- The "*MES*" module enables variant-dependent testing by a higher-level system
- The "*ITDB*" module, including vITronic, enables the evaluation and statistical processing of measurement data
- The "*Image processing and image documentation*" module enables the use of cameras
- The "*Robotics*" module enables the integration of a robot in the testing and handling process

Scope of testing

- Electronic testing of all lever and button functions, winding spring test
- Mechanical check of turn signal reset
- Haptic test of all levers using a force/displacement measurement
- Checking the symbols using image processing
- Programming of production data and serial number
- Automatic label placement

Input-/visualisation units

- Keyboard
- Screen
- Labelprinter including applicator
- Barcodescanner

Dimensions/Transport

- 3100x3100x2700 mm (WxHxD)
- Weight approx. 3200 kg

Test time

- ca. 70 sec

Exemplarly device type

- 006 6393

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