



## Test station for TCM with integrated steering angle sensor

### Product description

The system is used for manual testing of top column modules/steering column switch modules. The system is fed via an assembly line, which provides the specimens on a workpiece carrier including its own data memory.

The system consists of the belt section, the working table including testing device and the control electronics located below the belt section.

### Field of application

Quality control and end-of-line test in the production/manufacturing area



## Test station for TCM with integrated steering angle sensor

### Technical data

#### Test bench/device

- Worktable for manual inspection
- Test device with drive and contacting
- Conveyor line with type-specific workpiece carriers
- Measuring and testing technology in rack

#### Software

- TST-WIN under Windows
  - Process control
  - Performance of measurements and tests
  - Presentation of test results
  - All settings and sequences menu-driven freely programmable
  - Automatic type change
  - Password-protected access levels
  - Daily/monthly and worker statistics
- Data transfer to line computer for data traceability

#### Scope of testing

- Torque-Torque Angle-Contact Measurement
  - $\pm 1080^\circ$ , resolution 0.1
  - 0 to 100 cNm, resolution 0.01 cNm
- 32 measuring channels
  - 0 to 30 V, resolution 0.1 mV/1 mV, 2 measuring ranges
  - Current injection for measurement 0.1 mA/1 mA/10 mA
- Bus communication LIN 1.3 / 2.0, CAN, Flexray
- 32 current channels
  - 0 to 30 V common, current limitation 3 A common
  - per channel 0 to 2000 mA Current limitation, resolution 0.5 mA

#### Input-/visualisation units

- Keyboard
- Monitor

#### Dimensions/Transport

- 1200x1400x600 mm (WxHxD)

#### Test time

- Individual, depending on test scope

#### Exemplary device type

- MRSM-HAP