



MP-LMS Lifetime test of steering torque sensors

Product description

Automatic test system for lifetime testing of up to five steering torque sensors. The mechanical movement is carried out via a 6-axis control system in which the rotation and torsion of the steering column are simulated.

Field of application

Research & Development, life time testing and quality control in the area of production/ manufacturing



MP-LMS Lifetime test of steering torque sensors

Technical data

Test bench/device

- Test cell with integrated measuring and control technology
- Universal interchangeable adaptations for a wide range of specimen types

Software

- Multi-test MP-LMS under Windows
 - Characteristic curve recording, on-line monitoring and fully automatic linearization calculation and programming of the sensors (linearization look-up table)
 - Endurance test sequences, climate cycle menu-driven editable
 - Extensive possibilities for controlling the process and the measurements
 - Versatile evaluation and statistics options
- Data export
- Integrated management for data security and remote maintenance

Scope of testing

- Measurement offset, linearity, wobble, function, radiometry, slope, hysteresis simultaneously on 2 channels
 - Measuring resolution/accuracy 0.0015°.
- Movement cycle independent of measuring cycle possible, fast movements e.g. $\pm 10^\circ$ with 10 Hz
- Simulation of steering column rotation and torsio

Input-/visualisation units

- Keyboard
- Monitor

Dimensions/Transport

- approx. 650x1300x800 mm (WxHxD)

Test time

- Individual, depending on test scope

Exemplary device type

- 080 1940