



Source: Mercedes-Benz AG

NEXT.assembly

Smart Ergo Level

Perfect measurement – maximum ergonomics

Smart Ergo Level is a mobile measuring device for measuring the steering wheel angle and the steering wheel inclination of vehicles in the end-of-line.

The measured values of steering wheel angle and inclination are constantly transmitted to the x-line host PC. In addition, the device performs an evaluation of the measurement results and signals them via LEDs as well as via an acoustic signaller. The measurement results are transmitted wirelessly or via cable to a test system PC.

APPLICATION

- Measuring device and auxiliary device for adjustment of the wheel geometry in wheel alignment stands
- Measuring device and auxiliary device for the toe angle setting considering the steering angle hysteresis

CUSTOMER BENEFITS



Display and evaluability of the steering wheel inclination to control the adjustment process

Solid operation on the steering wheel due to very low weight of 1.35 kg and favorable center of gravity

Dür's own development - customer-specific adaptations are easy to verify

Ergonomically shaped and operable with one hand

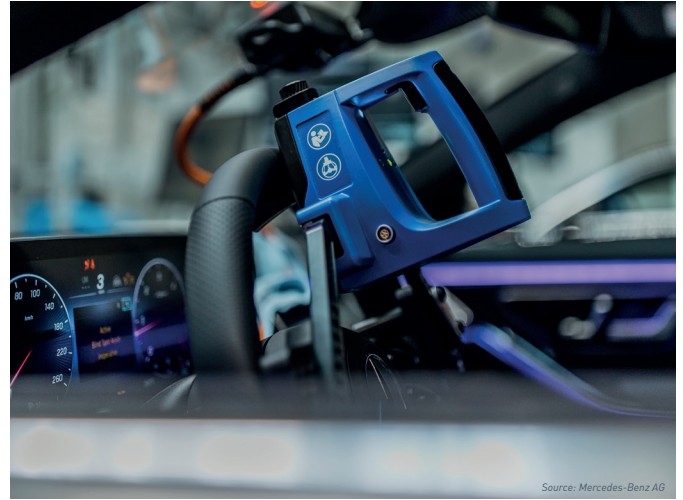
Easy access through full integration in the PC application software x-line

Technical data

Smart Ergo Level

GENERAL FEATURES

- Fixed, during the measurement unchangeable connection to the steering wheel geometry by support
- μ controller with data memory for device control and buffering of parameters
- Inductive charging technology for wireless operation
- Full integration into the x-line PC application software
- Measurement mostly independent of steering wheel geometry, support adjustable
- Ergonomically shaped and operable with one hand
- Airbag-proof, i.e. no parts are within the deployment range of an airbag (vehicle-specific)
- Final adjustment via x-line dialog on standard calibration gauge
- Very long continuous operation: > 28 hours without recharging the battery



Smart Ergo Level in wheel alignment stand

TECHNICAL DATA

Steering wheel balancer Smart Ergo Level, wireless

Measuring range	$\pm 30^\circ$ steering wheel angle at 15° to 90° inclination
Resolution	0.1°
Total tolerance Measuring system Steering	$< 0.1^\circ$ for steering wheel angle $\pm 10^\circ$ at inclination 30° to 60°
Operator interface	3 evaluation LEDs: red-green-red 2 status LEDs
Interface to the test stand computer	Radio 2.4 GHz
Power supply	Lithium-ion battery: replaceable Running time steering wheel balancer: at least 24 hours
Housing design	Robust plastic housing for industrial use
Weight	Approx. 1.3 kg
Travel range steering wheel clamping	60 mm continuously variable (taper clamping at steering wheel rim)