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PRODUCTION
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Smart Ergo Drive

The new generation of setting tools

Dürr Assembly Products has developed a new generation of semi-automatic adjustment tools for adjusting headlamps and DAS sensors.

TASKS

- Automated adjustment of headlamps and DAS sensors by control via image evaluation software
- Illumination of the bolting point by means of LED lighting
- Integrated push-down sensor technology for process-safe control of setting and storage of measured values
- Optionally parameterizable push-down start and / or automatic setting stop with storage of the measured setting values
- Type-dependent parameterizable torque switch-off
- Adjustment to rotation angle presetting possible

CUSTOMER BENEFITS

LED lighting

Glass fibre reinforced plastic housing with ergonomic handle position and two different operation buttons

Rubber coating and defined finder support in the grip area

Weight less than 600 g

Push-down sensors

Downward compatible with all Dürr Assembly Products setting tool controls with digital

Technical Data

Smart Ergo Drive

INNOVATIONS

The tools are manually adapted by the operator to the bolting points. After pressing the start button, or the optionally usable push-down start, the setting tools are controlled via the decentralized control units until the setpoint values are reached.

In addition to LED lighting, the setting tools have integrated push-down sensors. This sensor system can detect the effect of force in the bolt hole in addition to the tool's own weight.

This signal acquisition can be used during the setting process as well as during the confirmation process to detect and reliably prevent a falsification of the setting values due to the application of force. For this purpose, the acquired signal is transmitted to the decentralised control unit of the setting tools and processed further. The measuring and setting values of the headlamps / DAS sensors are only evaluated if the push-down sensor system is not occupied and the operator therefore does not exert any force on the adjusting bolt.

Optional use of the sensor system: By pressing down the tool, the setting process can be started (push-down start) or a process-safe, automatic stopping and saving of the setting values can be ensured.

Smart Ergo Drive 100

Smart Ergo Drive 200

TECHNICAL DATA / DIMENSIONS Smart Ergo Drive 100	
Type / housing	Straight / glas fibre reinforced plastic housing
Nominal voltage / rated current	24V DC / 2,76 A
Nominal revs / min (clamping chuck)	230 U/min
Torque range	0,8 - 2,3 Nm
Nominal / short-term torque (clamping chuck)	2,3 Nm / 4,1 Nm
Noise level	< 70 dB(A), EN 62841-1:2015, EN 62841-2-2:2014
Vibration level	< 2,5 m/s^2, EN 62841-1:2015, EN 62841-2-2:2014
Clamping chuck	Precision quick-change chuck with bit lock
Support clamping chuck	Bits according to DIN3126-E6.3, ISO 1173
LED lighting	2 x LED
Push-down sensors	Process-safe control and storing of adjustment values Optional: Push-down start Optional: Auto-Quit (process-safe automatic storing of adjustment values)
Weight / length	< 600 g, without bits + cable / 272 mm
Connection cable	Round cable / spiral cable

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