

# SMART ERGO DRIVE

## THE NEW GENERATION OF SETTING TOOLS

### Innovation

For adjusting test specimens, Dürr Assembly Products has developed a new generation of semi-automatic setting tools.

The tools are manually attached to the test specimen by the operator and controlled until the test specimens are correctly adjusted.

In addition to the lighting, a push-down mechanism is integrated in the front area of DAP's new electric setting tools "Smart Ergo Drive". This leading to a deflection of the setting tool tip under mechanical load.

The spring deflection is recorded by an initiator positioned within the setting tool and transmitted to the control unit. Due to the signal acquisition it is possible to determine whether the operator pressed the tool into the bolt hole with an additional force apart from the tool's own weight during the adjustment and operation process.

Thus, a process-safe adjustment method is guaranteed as the measurement and setting values are only evaluated when the push-down initiator is not occupied and the operator does not exert force on the adjustment bolts.

### Customer benefits

- » LED lighting of the bolting point
- » glass fibre reinforced plastic housing with ergonomic position of the handle and two different push-down initiators
- » rubber coating and defined finger rest in the handle area, thus ensuring a safe handling and avoiding shifting of the tool during the adjustment process
- » weight: < 600 g
- » push-down sensors ==> patent pending!



# Smart Ergo Drive

- Process-safe adjustment procedure as tool control and evaluation of the measurement and adjustment values are only carried out when the push-down sensor is not occupied.

This guarantees that no axial forces exceeding 10 N are exerted on the adjustment bolts.

- optional: "automatic start" by pressing down (push-

down start); thus, it is not necessary to press a start button.

- optional: a process-safe "automatic acknowledgement" of the measurement values is possible ("Auto-Quit")

» downward compatible with all DAP setting tool controls with digital regulator modules

==> exchangeability in case of old equipment is guaranteed!



## Details

1. LED lighting
2. push-down sensor
3. 2 operating switches for different gripping positions (e.g. in case of horizontal and vertical application)
4. ergonomic gripping area
  - non-slip surface due to rubber coating
  - defined finger rest for vertical application
5. fixing strap for application with balancer
6. precision quick-change chuck with bit lock
7. identification plate

## Technical data/dimensions Smart Ergo Drive 100

<b>type / housing</b>	straight / glas fibre reinforced plastic housing
<b>nominal voltage / rated current</b>	24V DC / 2.76 A
<b>nominal revs/min (clamping chuck)</b>	230 revs/min
<b>torque range</b>	0.8 - 2.3 Nm
<b>nominal / short-term torque (clamping chuck)</b>	2.3 Nm / 4.1 Nm
<b>noise level</b>	< 70 dB(A), EN 62841-1:2015, EN 62841-2-2:2014
<b>vibration level</b>	< 2.5 m/s <sup>2</sup> , EN 62841-1:2015, EN 62841-2-2:2014
<b>clamping chuck</b>	precision quick-change chuck with bit lock
<b>support clamping chuck</b>	bits according to DIN3126-E6.3, ISO 1173
<b>LED lighting</b>	2x LED
<b>push-down sensor with 3 mm spring play</b>	- process-safe control and storing of adjustment values - optional: push-down start
	- optional: "Auto-Quit" (process-safe automatic storing of adjustment values)
<b>weight / length</b>	< 600 g, without bits + cable / 272 mm, without bits + cable
<b>connection cable</b>	round cable with aramid support braiding / spiral cable

\* The photos or figures of the assembly and testing systems in the flyer are not showing the complete installation. The requirements of the machinery directive (2006/42/EG) will only be met by other supplementary scope of supply or - on delivery of uncompleted machines - those requirements must be fulfilled by the manufacturer of the (complete) machine.  
Flyer Smart Ergo Drive, Version C

