

**Garant****Electronic torque wrench / rotational angle wrench, maximum torque: 30N·m****Order data**

Order number	655013 30
GTIN	4062406577896
Item class	61D

**Description****Version:**

- **Display:** Large sharp contrast illuminated 2.8 inch TFT display with double scale with viewing angle stability. With battery display and memory display. Torque and rotational angle both displayed at the same time.
- **Display:** Peak and Track function modes.
- **Modes:** Displaying torque, triggering torque, triggering rotational angle, triggering rotational angle with rotational angle monitoring, triggering rotational angle with torque monitoring. Up to 100 screw tightening profiles can be programmed. Recurrent screw tightening profiles can be summarised into a procedure (up to 10 procedures each with up to 10 screw tightening profiles). Screw tightening profiles and procedures can be programmed directly on the wrench.
- **Memory capacity:** 1000 measurement values with timestamp (incl. date and time).
- **Data output:** Available via USB-C. The data can be exported as a .csv file.
- **Password protection:** available as protection against unauthorised access to the menu (master password) and for verifying screw-tightening cases and procedures. In addition, you can set that reworking a screw connection that has been performed incorrectly requires input of a password.
- **Warning signal outputs** are haptic (vibration), visual (change of colour at the display, visible through 360° in any direction due to the LED ring with "traffic light function") and acoustic (buzzer, beep sound). The pre-warning point can be configured individually. Haptic and acoustic warning signals can be disabled if desired.
- **Easy input of reference dimensions:** For tools with a different pitch setting simply input the new pitch. No laborious calculations with formulae.
- **Protection class IP40.** The display is splash-proof.

- **The 2-component handle of the torque / rotational angle wrench ensures specially good ergonomics and high torque transmission.**
- **Resistant to oils, grease, fuel, brake fluid and Skydrol.**
- **Languages: German, English, Spanish, Italian, French.**
- **Factory settings: The wrench can be reset to the factory settings.**
- **Display of the software version with serial number, load cycle counter and calibration date.**
- **Calibration reminder: after number of load cycles.**
- **Units of measure: Nm, lbfft, lbt-in.**

**Standard:**

Geprüft nach DIN EN ISO 6789.

**Accuracy:**

**Torque:** Clockwise  $\pm 2\%$ , anticlockwise  $\pm 3\%$ .

**Rotation angle:**  $\pm 1^\circ$  for the measurement range up to  $100^\circ$ ,  $\pm 1\%$  for the measurement range  $100^\circ$  and beyond.

**Supplied with:**

USB-C data cable, plug-in ratchet (reversible) with ejector, 1 commercially available Li-ion battery type 18650 3.6V / 3400 mAh (can be charged directly within the tool via the USB-C port). Supplied in a sturdy plastic case.

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USB-C data cable, plug-in ratchet (reversible) with ejector, 1 commercially available Li-ion battery type 18650 3.6V / 3400 mAh (can be charged directly within the tool via the USB-C port). Supplied in a sturdy plastic case.

**Note:**

Suitable additional batteries can be found under No. 081574 size 3500. Charger for 4 batteries available as options under: 081590 size 4ULTRA.

Direction of tightening: For right and left-hand tightening

Torque measuring accuracy:  $\pm 2\%$

Torque measuring accuracy:  $\pm 2\%$

Measuring accuracy rotational angle:  $\pm 1\%$

Measuring accuracy rotational angle:  $\pm 1^\circ$

Exchangeable tool: Plug-in head

Overall length L: 370 mm

Torque range: 6 - 30 N·m

Torque range: 4.4 - 22.1 lbfft

Torque range: 53 - 265.5 lbfin

Resolution: 0.01 N·m

Angular resolution:  $0.1^\circ$

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## Technical description

Adjusted reference dimension on the torque wrench [L<sub>2</sub>]

21 mm

Battery capacity

3.4 A·h

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Type of rechargeable battery	Lithium-ion
Angular resolution	0.1 °
Data can be recorded	yes
Resolution	0.01 N·m
Lever length including factory calibration reference dimension [I <sub>3</sub> ]	303 mm
Direction of tightening	For right and left-hand tightening
Measurement technology	electronic
Nominal voltage	3.6 V
Setting the trigger value	digital, adjustable
Reversible reading	Nm
Reversible reading	lbf·in
Reversible reading	lbf·ft
Measuring accuracy rotational angle	±1 %
Measuring accuracy rotational angle	±1 °
Lever length without plug-in head [I <sub>1</sub> ]	282 mm
Display diagonal	2.8 in
Release signalling	haptisk
Release signalling	haptisk
Release signalling	acoustic
Connection format	for plug-in heads (rectangular socket)
Interface	USB interface
Calibration	O5
Calibration	O3
Number of rechargeable batteries contained	1
Power supply	Rechargeable battery-powered
Test certificate	Manufacturer's test certificate
Torque range	53 - 265.5 lbf·in
Adjustable trigger value	adjustable
Square drive	1/4 in

Standard	DIN EN ISO 6789
Battery type	18650
Display	digital
Trigger principle	Vibration motor
Exchangeable tool	Plug-in head
Torque range	4.4 - 22.1 lbfft
Socket for plug-in head	9×12 mm
Feedback	displaying
Weight	735 g
Torque measuring accuracy	±2 %
Torque measuring accuracy	±2 %
Measurement process	Torque
Measurement process	Rotation angle
Torque range	6 - 30 N·m
maximum torque	30 N·m
Overall length L	370 mm
Type of product	Torque Wrench

## Services

Calibration Rotation angle	018850
Labelling laser-etched Type	018940
DAkKS calibration Torque wrench both ends maximum torque 1000/2 N·m	018831 1000/2
Calibration Torque wrench both ends maximum torque 400/2 N·m	018821 400/2
Calibration Torque wrench both ends maximum torque 400/2 N·m	020030 400/2
DAkKS calibration Torque wrench both ends maximum torque 1000/2 N·m	020040 1000/2
Calibration Rotation angle Type W	020070 W

## Accessories

Electronic torque wrench / rotational angle wrench HCT  
maximum torque 30 N-m

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