

## Garant

### Electronic torque wrench / rotational angle wrench, maximum torque: 500N·m



#### Order data

Order number	655013 500
GTIN	4067263290513
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 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.**

with built-in reversible ratchet.

**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.

**Cutting dataa:**

**Legend for drawing and formula:**

$l_1$  = Lever length without plug-in head

$l_2$  = Adjusted reference dimension on the torque wrench

$l_3$  = Lever length including factory calibration reference dimension

$l_4$  = Reference dimension of the plug-in head

L = Total length of the tool

$T_1$  = Torque to be set

$T_2$  = Specified torque

**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.

## Technical description

Angular resolution	0.1 degrees
Connection format	Push-through square drive (ratchet)
Display	digital
Measurement technology	electronic
Reversible reading	Nm

Reversible reading	lbfft
Reversible reading	lbfin
Number of rechargeable batteries contained	1
Weight	3100 g
Resolution	0.1 Nm
Data can be recorded	yes
Release signalling	haptisk
Release signalling	visual
Release signalling	acoustic
Display diagonal	2.8 in
maximum torque	500 Nm
Type of rechargeable battery	Lithium-ion
Torque range	885 - 4425 lbfin
Measurement process	Angle of rotation
Measurement process	Torque
Interface	Bluetooth interface
Interface	USB interface
Overall length L	950 mm
Torque range	100 - 500 Nm
Measuring accuracy rotational angle	± 1 degrees
Exchangeable tool	Plug-in head
Standard	DIN EN ISO 6789
Calibration	O1
Calibration	O5
Square drive	3/4 in
Direction of tightening	For right and left-hand tightening
Torque measuring accuracy	±3 %
Torque measuring accuracy	±2 %
Adjustable trigger value	adjustable

Lever length including factory calibration reference dimension [l <sub>3</sub> ]	865 mm
Trigger principle	Vibration motor
Power supply	Rechargeable battery-powered
Test certificate	Manufacturer's test certificate
Feedback	displaying
Setting the trigger value	digital, adjustable
Measuring accuracy rotational angle	± 1 %
Nominal voltage	3.6 V
Battery capacity	3.4 Ah
Torque range	74 - 367 lbfft
Type of product	Torque Wrench

## Services

DAkkS calibration Torque wrench clockwise / anti-clockwise maximum torque 1000/2 N·m	020040 1000/2
Calibration Torque wrench clockwise / anti-clockwise maximum torque 1000/2 N·m	020030 1000/2

## Accessories

Li-ion battery cell, rechargeable Capacitance 3500 mAh	081574 3500
Spare parts assortment for ratchet Square drive 3/4 in	655556 3/4