

**Garant****Electronic torque wrench / rotational angle wrench, maximum torque: 50N·m****Order data**

Order number	655013 50
GTIN	4062406577902
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.**

**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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**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

Torque range	7.4 - 36.9 lbfft
Measurement technology	electronic
Data can be recorded	yes
maximum torque	50 Nm

Test certificate	Manufacturer's test certificate
Standard	DIN EN ISO 6789
Feedback	displaying
Type of rechargeable battery	Lithium-ion
Battery capacity	3.4 Ah
Connection format	for plug-in heads (rectangular socket)
Trigger principle	Vibration motor
Weight	890 g
Angular resolution	0.1 degrees
Torque range	10 - 50 Nm
Power supply	Rechargeable battery-powered
Battery type	18650
Torque range	88.5 - 442.5 lbf·in
Display diagonal	2.8 in
Measuring accuracy rotational angle	±1 degrees
Exchangeable tool	Plug-in head
Adjusted reference dimension on the torque wrench [l <sub>2</sub> ]	28 mm
Adjustable trigger value	adjustable
Lever length including factory calibration reference dimension [l <sub>3</sub> ]	337.2 mm
Measurement process	Rotation angle
Measurement process	Torque
Number of rechargeable batteries contained	1
Socket for plug-in head	9×12 mm
Calibration	O5
Calibration	O3
Setting the trigger value	digital, adjustable
Direction of tightening	For right and left-hand tightening
Overall length L	407.5 mm
Measuring accuracy rotational angle	±1 %

Release signalling	acoustic
Release signalling	haptisk
Release signalling	haptisk
Interface	USB interface
Display	digital
Resolution	0.01 Nm
Square drive	3/8 in
Nominal voltage	3.6 V
Lever length without plug-in head [L <sub>1</sub> ]	309.2 mm
Torque measuring accuracy	±2 %
Torque measuring accuracy	±2 %
Reversible reading	Nm
Reversible reading	lbfft
Reversible reading	lbfin
Type of product	Torque Wrench

## Services

CalibrationTorque wrench clockwise / anti-clockwise maximum torque 400/2 N·m	020030 400/2
DAkkS calibrationTorque wrench clockwise / anti-clockwise maximum torque 1000/2 N·m	020040 1000/2
CalibrationRotation angle Type W	020070 W

## Accessories

Electronic torque wrench / rotational angle wrenchHCT maximum torque 50 N·m	655010 50
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