

**Garant**

**Electronic torque wrench / rotational angle wrench HCT, maximum torque:  
12N·m**



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**Order data**

Order number	655010 12
GTIN	4062406297596
Item class	61D

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**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 and 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 both directly at the wrench and also conveniently via the app.
- **Possible wireless applications:** HCT Windows app and HCT mobile app. The analyser has a bi-directional interface but can also be used independently (without app).
- **Apps:** The Bluetooth® dongle 498999 STICK (license) and the Windows app software are required to activate the HCT Windows app (<https://hog.tools/win-app-hct>). The HCT mobile app is available free of charge for iOS and Android.

- **Memory capacity: 1000 measurement values with timestamp (incl. date and time).** The memory on the wrench can be manually deactivated if the connection to the end device has been established by HID.
- **Data output: Available via Bluetooth® or USB-C.** Via Bluetooth®: Available via the apps as a .csv file, or directly at the torque wrench via the HID interface for simple and convenient digital documentation. Via the USB C interface: The data can be exported as a .csv file.
- **Wireless approval: The torque wrenches with Bluetooth® interface have valid wireless approval in all EU countries, Switzerland, Norway, Turkey, UK, USA and Mexico.**
- **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, 360° LED ring with “traffic light function” clearly visible from anywhere) and acoustic (buzzer).** 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.**
- **Time and date on the wrench are updated automatically as soon as it is connected to the app.**
- **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, lbfin. with plug-in ratchet.

**Advantage:**

**HCT – Hoffmann Group Connected Tools**

Advantages of wireless transmission with Bluetooth:

- **Simple data transmission: At the push of a button the measuring result is transmitted directly to your PC application (such as Excel or Word) or to your mobile phone - no dongle necessary.**
- **Freedom of movement: No messy data transmission cables.**
- **Independence of location: Measurements can be performed directly to the machine and transmitted by radio to your application.**
- **Reliable data transmission: No read errors and transmission errors - multiple measuring devices can be linked together.**

**When using the torque analyser HCT in conjunction with a torque wrench HCT:**

- **Simultaneous display of the measurement values of the torque wrench HCT and the torque analyser HCT on the display of the torque analyser.**
- **Display and automatic evaluation of the peak values achieved by the torque wrench HCT and the torque analyser HCT.**
- **HCT torque wrenches blocked due to overload can be released again using the torque analyser. (After release, calibration of the torque wrenches HCT is recommended).**

**Standard:**

Tested to 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, reversible ratchet with ejector (size 12-340: plug-in ratchet, size 500 and 850: fixed ratchet), 1 commercially available Li-ion rechargeable battery type 18650 3.6V / 3400 mAh (can be charged directly in the tool via a USB-C plug). Supplied in a sturdy plastic case.

**Note:**

- **Suitable additional batteries can be found under No. 081574 3500. Charger for 4 batteries available as options under: 081590 4ULTRA.**
- **A holder for mounting or suspending the torque wrench is available under No. 655039 1.**
- **To protect the wrench from impacts, the protective cover 65 5024 655010 can also be purchased.**
- **Using gateway No. 650022 GATEWAY, the torque wrench can be integrated into any higher-level system (e.g. MES) via open protocol.**

## Technical description

Adjusted reference dimension on the torque wrench [ $l_2$ ]	21.1 mm
Measuring accuracy rotational angle	$\pm 1$ degrees
Connection format	for plug-in heads (rectangular socket)
Display	digital
Display diagonal	2.8 in

Overall length L	370 mm
Trigger principle	Vibration motor
Test certificate	Manufacturer's test certificate
Torque range	2.4 - 12 Nm
Calibration	O3
Calibration	O5
Battery capacity	3.4 Ah
Type of rechargeable battery	Lithium-ion
Measurement technology	electronic
Square drive	1/4 in
Resolution	0.01 Nm
Lever length including factory calibration reference dimension [l <sub>3</sub> ]	303 mm
Series	HCT
Reversible reading	Nm
Reversible reading	lbfft
Reversible reading	lbfin
Direction of tightening	For right and left-hand tightening
Number of rechargeable batteries contained	1
Weight	735 g
Torque range	21 - 106 lbfin
Data can be recorded	yes
Exchangeable tool	Plug-in head
Socket for plug-in head	9×12 mm
Feedback	displaying
Standard	DIN EN ISO 6789
Measuring accuracy rotational angle	±1 %
Torque range	1.8 - 9 lbfft
maximum torque	12 Nm
Release signalling	haptisk

Release signalling	acoustic
Release signalling	haptisk
Interface	Bluetooth® interface
Interface	USB interface
Setting the trigger value	digital, adjustable
Torque measuring accuracy	±2 %
Torque measuring accuracy	±3 %
Lever length without plug-in head [L <sub>1</sub> ]	282 mm
Measurement process	Torque
Measurement process	Rotation angle
Nominal voltage	3.6 V
Adjustable trigger value	adjustable
Angular resolution	0.1 degrees
Power supply	Rechargeable battery-powered
Wireless application	HCT Mobile App
Wireless application	HID (Human Interface Device)
Wireless application	HCT Windows app
Type of product	Torque Wrench

### Suitable products

<https://www.hoffmann-group.com/GB/en/hom/p/655010-12>