

Garant**Deflecting torque wrench without scale, maximum torque: 60N·m****Order data**

Order number	657750 60
GTIN	4045197514578
Item class	61E

Description**Version:**

Torque wrench without scale. Wrench setting using torque analyser. **The trigger mechanism makes unintentional overtightening extremely unlikely. Anti-clockwise tightening** by reversing the plug-in head.

Function:

On reaching the preset torque value the wrench triggers a clearly detectable deflection and is then immediately ready for use again. The long-travel indication gives the user an unmistakable signal that the set torque has been reached.

Application:

For controlled tightening of screws to a pre-set torque during batch productions.

Standard:

Geprüft nach DIN EN ISO 6789.

Accuracy:

±3 % of the set value.

Cutting data:**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

Note:

Suitable spare jaws No. 657582 - 657950.

The guaranteed measuring accuracy of the torque is achieved only once the torque range has been calibrated to DIN EN ISO 6789.

Direction of tightening: For right- and left-hand tightening

Torque measuring accuracy: $\pm 3\%$
 Exchangeable tool: Plug-in head
 Test certificate: Manufacturer's test certificate
 Calibration: O6
 Calibration: O7
 Overall length L: 360 mm
 Torque range: 10 - 60 N·m
 Weight: 870 g
 Adjusted reference dimension on the torque wrench [I₂]: 25 mm
 Socket for plug-in head: 9×12 mm

Technical description

Weight	870 g
maximum torque	60 N·m
Socket for plug-in head	9×12 mm
Torque measuring accuracy	$\pm 3\%$
Direction of tightening	For right- and left-hand tightening
Exchangeable tool	Plug-in head
Torque range	10 - 60 N·m
Connection format	for plug-in heads (rectangular socket)
Setting the trigger value	without setting scale (requires torque analyser)
Feedback	triggering
Standard	DIN EN ISO 6789
Lever length without plug-in head [I ₁]	280 mm
Measurement process	Torque
Lever length including factory calibration reference dimension [I ₃]	305 mm
Adjusted reference dimension on the torque wrench [I ₂]	25 mm
Reversible reading	Nm
Adjustable trigger value	preset
Overall length L	360 mm
Trigger principle	mechanical short-travel release

Calibration	O6
Calibration	O7
Test certificate	Manufacturer's test certificate
Data can be recorded	no
Measurement technology	mechanical
Release signalling	akustisk
Release signalling	haptisk
Deflection function	yes
Type of product	Torque Wrench

Services

Labelling laser-etched Type	018940
Adjustment Torque wrench without scale	018890
Calibration and adjustment Torque wrench without scale maximum torque 400 N·m	018891 400
Adjustment Torque wrench without scale Type SET	020080 SET
DAkkS calibration Torque wrench maximum torque 1000 N·m	020020 1000
Calibration and adjustment Torque wrench without scale maximum torque 400 N·m	020090 400
DAkkS calibration and adjustment Torque wrench without scale maximum torque 1000 N·m	020190 1000

Accessories

Plug-in ratchet Square drive 1-3/8 in	657620 1-3/8
Electronic torque analyser "ProTest" maximum torque 60 N·m	654460 60
Plug-in ratchet with ejector Type-Square drive 1-1/2 in	657580 1-1/2
Plug-in ratchet Square drive 1-1/2 in	657620 1-1/2
Plug-in ratchet with ejector Type-Square drive 1-1/4 in	657580 1-1/4

Plug-in ratchet reversible with ejector Type-Square drive 1-3/8 in	657582 1-3/8
Plug-in ratchet Type-Square drive 1-3/8 in	657630 1-3/8
Plug-in ratchet Type-Square drive 1-1/4 in	657630 1-1/4
Torque analyser for torque wrenches "SmartCheck" maximum torque 100 N·m	654650 100
Plug-in ratchet with ejector Type-Square drive 1-3/8 in	657580 1-3/8
Plug-in ratchet Type-Square drive 1-1/2 in	657630 1-1/2
Plug-in ratchet reversible with ejector Type-Square drive 1-1/4 in	657582 1-1/4
Plug-in ratchet Square drive 1-1/4 in	657620 1-1/4
Plug-in ratchet reversible with ejector Type-Square drive 1-1/2 in	657582 1-1/2