

**Garant****Torque wrench base unit without scale without plug-in head, maximum torque: 100N·m****Order data**

Order number	657450 100
GTIN	4045197995940
Item class	61E

**Description****Version:**

One-armed torque wrench without a setting scale. Set the desired torque value with setting tool No. 657452 size 1 in conjunction with a suitable test device.

**Anti-clockwise tightening by reversing the plug-in head.** Without plug-in head (base model); for suitable plug-in heads see No. 657582 – 657950.

**Function:**

On reaching the set torque value the wrench triggers giving a “signal” (audible and perceptible) and is then immediately ready for use again.

**Application:**

For controlled screw tightening etc. to specified torques in batch productions.

**Standard:**

Geprüft nach DIN EN ISO 6789.

**Accuracy:**

±2% of the set value.

**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

**Note:**

See No. 657582 – 657950 for **suitable plug-in heads**.

**Technical description**

Socket for plug-in head	14×18 mm
Torque range	20 - 100 Nm
Torque measuring accuracy	±2 %
Exchangeable tool	Plug-in head
Direction of tightening	For right and left-hand tightening
maximum torque	100 Nm
Weight	450 g
Setting the trigger value	without setting scale (requires torque analyser)
Standard	DIN EN ISO 6789
Trigger principle	mechanical short-travel release
Overall length L	368 mm
Adjustable trigger value	preset
Adjusted reference dimension on the torque wrench [I <sub>2</sub> ]	38.5 mm
Lever length without plug-in head [I <sub>1</sub> ]	295.5 mm
Reversible reading	Nm
Measurement process	Torque
Connection format	for plug-in heads (rectangular socket)
Feedback	triggering
Lever length including factory calibration reference dimension [I <sub>3</sub> ]	334 mm
Calibration	O6
Calibration	O7
Data can be recorded	no
Release signalling	akustisk
Release signalling	haptisk
Measurement technology	mechanical
Type of product	Torque Wrench

## Services

DAkKS calibrationTorque wrench maximum torque 1000 N·m	020020 1000
AdjustmentTorque wrench without scale Type SET	020080 SET
Calibration and adjustmentTorque wrench without scale maximum torque 400 N·m	020090 400
DAkKS calibration and adjustmentTorque wrench without scale maximum torque 1000 N·m	020190 1000

## Accessories

Plug-in ratchet reversible Type-Square drive 2-1/2 in	657582 2-1/2
Setting wrench for the torque value Type 1	657455 1
Plug-in ratchet Type-Square drive 2-1/2 in	657630 2-1/2
Square drive plug-in head Type-Square drive 2-3/4 in	657700 2-3/4
Square drive plug-in head Type-Square drive 2-1/2 in	657700 2-1/2
Plug-in ratchet Type-Square drive 2-3/4 in	657630 2-3/4