

5.1 Handheld Sensor Torque Drivers ng-μTDH

- Components integrated in the handpiece:
- Static strain-gage based torque sensor
- Incremental angle encoder
- Brushless DC Motor
- Planetary gearbox
- PCB-Assembly providing the following functions:
 - Torque measurement signal conditioning and 24-bit analog to digital conversion
 - Encoder readout
 - Data communication to the main control board
 - Hand button signaling
- Main control board mounted in the foot housing
- Vacuum suction through the handpiece
- Housing parts made of anodized aluminum and stainless steel

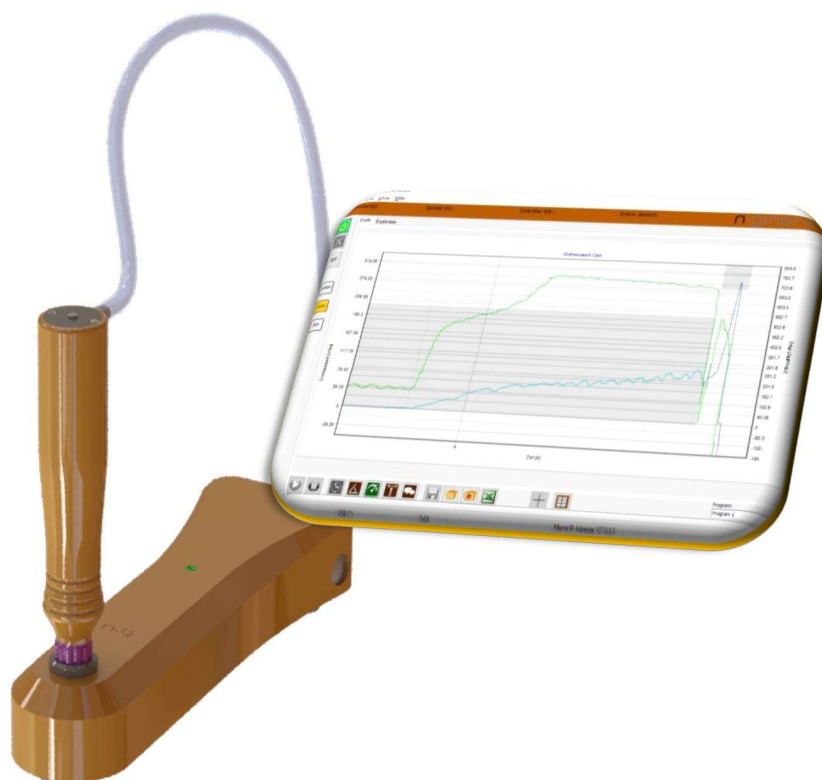
The Adaptive Screw Tightening Strategy provides the detection of the snug torque during the rundown of the screw. Depending on the snug torque, an additional constant or proportionate amount of torque can be applied to the screw joint to achieve repeatable clamping force.

Torque Driver Nomenclature:

ng-μTDH

- | | | | | **u** = USB direct
- | | | | | **i** = with ng-TDC Interface
- | | | | | **c** = cylindric bore for bit holder attachment
- | | | | Torque Range in cNm
- | | | **H** = Handheld
- | | **μTD** = μTorque Driver
- | **ng** = n-gineric Product

Handheld Sensor Torque Driver ng-μTDH-cu



ng-μTDH05-cu Sensor Torque Driver System

Article Number	01-01-00592-01
Torque Range	5 to 50 mNm
Torque Measurement Accuracy	3 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	100 bis 1,000 min ⁻¹
Bit Drive	1.5 mm cylindric
Handpiece Dimensions	144 x Ø 25 mm
Handpiece Weight	0.17 kg
Interface	USB

Scope of Supply

Type	Description	Article Number
ng-μTDH05-cu Spindle	Torque Driver Handpiece	01-01-00593-01
ng-μTDH05-cu Controller	Controller	01-01-00594-01
ng-TD-PS-15/40	Power Supply Unit	01-91-00007-01
ng-TD-Cable 2,0 m	Driver Cable 2 meters	01-90-00011-01
Cable USB-A/USB-Mini-B 1.8 m	USB- Cable	01-90-00002-01
n-quirer TD	Torque Driver System Software	01-01-00215-01

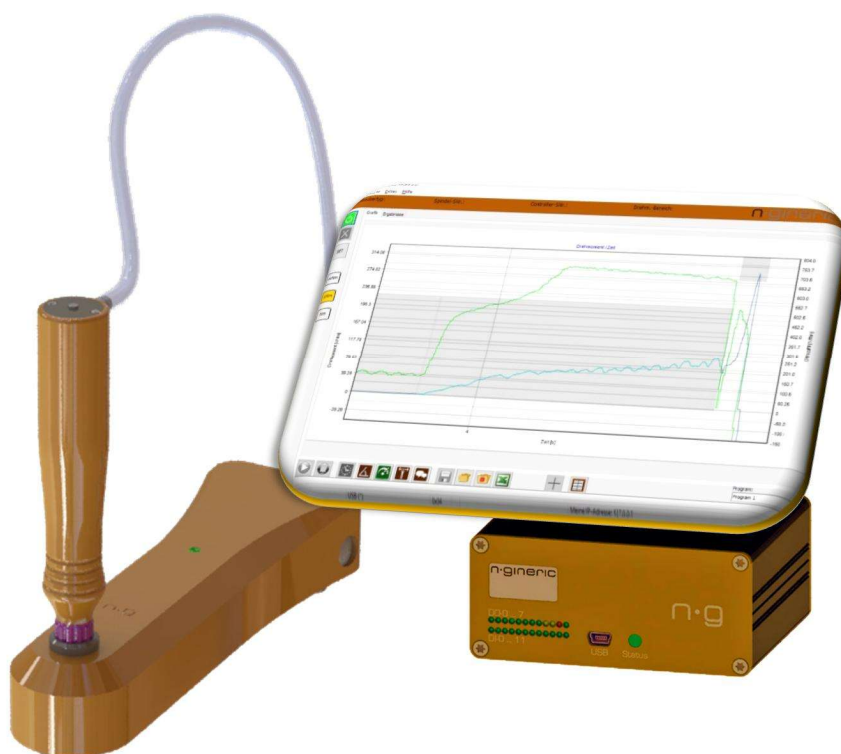
ng-μTDH08-cu Sensor Torque Driver System

Article Number	01-01-00639-01
Torque Range	8 to 80 mNm
Torque Measurement Accuracy	3 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	100 bis 1,000 min ⁻¹
Bit Drive	1.5 mm cylindric
Handpiece Dimensions	144 x Ø 25 mm
Handpiece Weight	0.17 kg
Interface	USB

Scope of Supply

Type	Description	Article Number
ng-μTDH08-cu Spindle	Torque Driver Handpiece	01-01-00640-01
ng-μTDH08-cu Controller	Controller	01-01-00594-01
ng-TD-PS-24/80	Power Supply Unit	01-91-00006-01
ng-TD-Cable 2,0 m	Driver Cable 2 meters	01-90-00011-01
Cable USB-A/USB-Mini-B 1.8 m	USB- Cable	01-90-00002-01
n-quirer TD	Torque Driver System Software	01-01-00215-01

Handheld Sensor Torque Driver ng-μTDH-ci



ng-μTDH05-ci Sensor Torque Driver System

Article Number	01-01-00596-01
Torque Range	5 to 50 mNm
Torque Measurement Accuracy	3 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	100 bis 1,000 min ⁻¹
Bit Drive	1.5 mm cylindric
Handpiece Dimensions	144 x Ø 25 mm
Handpiece Weight	0.17 kg
Interface	USB, Ethernet, Modbus/TCP, RS-232, DigitalI/O

Scope of Supply

Type	Description	Article Number
ng-μTDH05-ci Spindle	Torque Driver Handpiece	01-01-00635-01
ng-μTDH05-ci Controller	Controller	01-01-00595-01
ng-TD-PS-15/40	Power Supply Unit	01-91-00007-01
ng-TDC	Torque Driver Controller Interface	01-01-00220-01
ng-TD- Cable 3.0 m	Driver Cable 3 meters	01-90-00014-01
ng-TD- Cable 2.0 m	Driver Cable 2 meters	01-90-00011-01
Cable USB-A/USB-Mini-B 1.8 m	USB- Cable	01-90-00002-01
n-quirer TD	Torque Driver System Software	01-01-00215-01

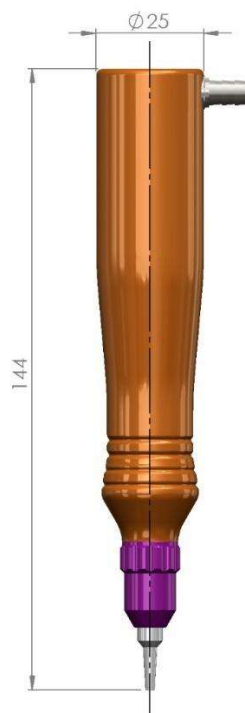
ng-μTDH08-ci Sensor Torque Driver System

Article Number	01-01-00642-01
Torque Range	8 to 80 mNm
Torque Measurement Accuracy	3 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	100 bis 1,000 min ⁻¹
Bit Drive	1.5 mm cylindric
Handpiece Dimensions	144 x Ø 25 mm
Handpiece Weight	0.17 kg
Interface	USB, Ethernet, Modbus/TCP, RS-232, DigitalI/O

Scope of Supply

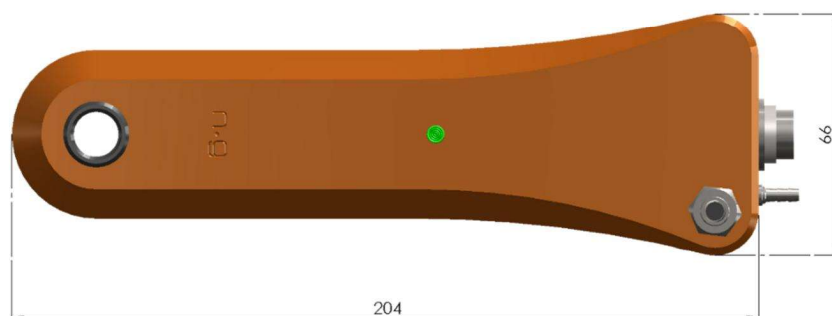
Type	Description	Article Number
ng-μTDH08-ci Spindle	Torque Driver Handpiece	01-01-00643-01
ng-μTDH08-ci Controller	Controller	01-01-00595-01
ng-TD-PS-24/80	Power Supply Unit	01-91-00006-01
ng-TDC	Torque Driver Controller Interface	01-01-00220-01
ng-TD- Cable 3.0 m	Driver Cable 3 meters	01-90-00014-01
ng-TD- Cable 2.0 m	Driver Cable 2 meters	01-90-00011-01
Cable USB-A/USB-Mini-B 1.8 m	USB- Cable	01-90-00002-01
n-quirer TD	Torque Driver System Software	01-01-00215-01

Dimensions:



ng-μTDH05-cu
ng-μTDH08-cu

ng-μTDH05-ci
ng-μTDH08-ci



5.2 Handheld Sensor Torque Drivers ng-TDH



- Torque Range:
 - 0.01 – 0.1 Nm
 - 0.02 – 0.2 Nm
 - 0.05 – 0.5 Nm
 - 0.10 – 1.0 Nm
 - 0.20 – 2.0 Nm
 - 0.40 – 4.0 Nm
 - 0.50 – 5.0 Nm
 - 0.60 – 6.0 Nm
 - 1.00 – 10.0 Nm
- Ultimate Torque/ Angle Measurement Precision:
 - Strain Gauge based Rotary Torque Sensor integrated at the Bit Chuck
 - 24 bits A/D Converter Resolution of the Torque Measurement at the Rotary Part
 - Brushless Digital Signal Transmission from the Rotary to the Stationary Part
 - 0.1 Degrees Resolution of the Angle Measurement directly at the Bit Chuck
- Massive Aluminum Housing
- Brushless DC Motor Technology
- Adaptive Screw Tightening Strategies
- All Controls integrated
- Industry-4.0-compliant
- Precise in measurement and highly productive

The **Adaptive Screw Tightening Strategy** provides the detection of the snug torque during the rundown of the screw. Depending on the snug torque, an additional constant or proportionate amount of torque can be applied to the screw joint to achieve repeatable clamping force.



1 - 10 cNm
2 - 20 cNm
5 - 50 cNm



10 - 100 cNm



20 - 200 cNm
40 - 400 cNm
50 - 500 cNm

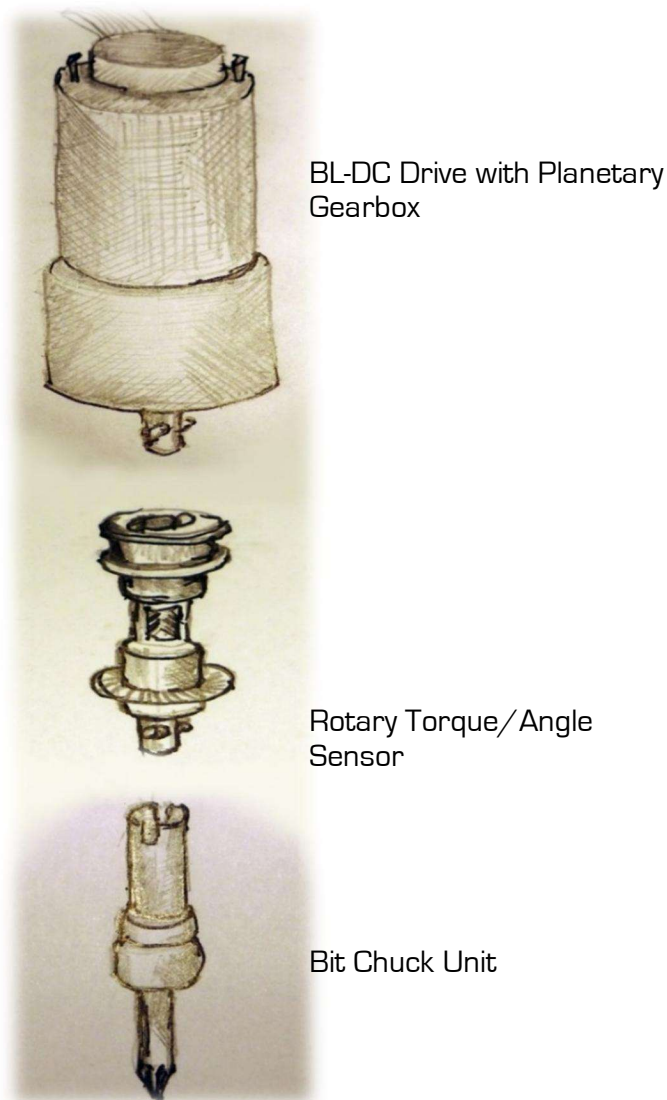


60 - 600 cNm



100 - 1000 cNm

Inner Structure:



Torque Driver Nomenclature:

ng- TDH -

- └ **u** = USB direct
- └ **i** = with ng-TDC Interface
- └ **h** = Halfmoon Bit Chuck
- └ **x** = Hexagon Bit Chuck
- └ Torque Range in cNm
- └ **H** = Handheld
- └ **TD** = Torque Driver
- └ **ng** = n·gineric Product

ng-TDH10-hu Sensor Torque Driver System

Article Number	01-01-00264-01
Torque Range	1 to 10 cNm
Torque Measurement Accuracy	1 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	100 to 1,000 min ⁻¹
Bit Drive	4 mm Halfmoon
Dimensions	196 x 48 x 25 mm
Weight	0.47 kg
Interface	USB

Scope of Supply

Type	Description	Article Number
ng-TDH10-hu Spindle	Torque Driver Handpiece	01-01-00255-01
ng-TD-PS-24-80	Power Supply Unit	01-91-00006-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
USB Cable	Cable USB-A /USB Mini 1.8m	01-90-00002-01
n-quirer TD	Torque Driver System Software	01-01-00215-01

ng-TDH10-hi Sensor Torque Driver System

Article Number	01-01-00265-01
Torque Range	1 to 10 cNm
Torque Measurement Accuracy	1 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	100 to 1,000 min ⁻¹
Bit Drive	4 mm Halfmoon
Dimensions	196 x 48 x 25 mm
Weight	0.47 kg
Interface	Digital to ng-TDC

Scope of Supply

Type	Description	Article Number
ng-TDH10-hi Spindle	Torque Driver Handpiece	01-01-00254-01
ng-TD-PS-24-80	Power Supply Unit	01-91-00006-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
ng-TD-Cable 2 m	Driver Cable 2 meters	01-90-00011-01
ng-TDC	Torque Driver Controller Interface	01-01-00220-01
n-quirer TD	Torque Driver System Software	01-01-00215-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01

ng-TDH20-hu Sensor Torque Driver System

Article Number	01-01-00266-01
Torque Range	2 to 20 cNm
Torque Measurement Accuracy	1 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	100 to 1,000 min ⁻¹
Bit Drive	4 mm Halfmoon
Dimensions	196 x 48 x 25 mm
Weight	0.47 kg
Interface	USB

Scope of Supply

Type	Description	Article Number
ng-TDH20-hu Spindle	Torque Driver Handpiece	01-01-00256-01
ng-TD-PS-24-80	Power Supply Unit	01-91-00006-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01
n-quirer TD	Torque Driver System Software	01-01-00215-01

ng-TDH20-hi Sensor Torque Driver System

Article Number	01-01-00267-01
Torque Range	2 to 20 cNm
Torque Measurement Accuracy	1 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	100 to 1,000 min ⁻¹
Bit Drive	4 mm Halfmoon
Dimensions	196 x 48 x 25 mm
Weight	0.47 kg
Interface	Digital to ng-TDC

Scope of Supply

Type	Description	Article Number
ng-TDH20-hi Spindle	Torque Driver Handpiece	01-01-00257-01
ng-TD-PS-24-80	Power Supply Unit	01-91-00006-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
ng-TD-Cable 2 m	Driver Cable 2 meters	01-90-00011-01
ng-TDC	Torque Driver Controller Interface	01-01-00220-01
n-quirer TD	Torque Driver System Software	01-01-00215-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01

ng-TDH50-hu Sensor Torque Driver System

Article Number	01-01-00311-02
Torque Range	5 to 50 cNm
Torque Measurement Accuracy	1 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	100 to 1,300 min ⁻¹
Bit Drive	4 mm Halfmoon
Dimensions	196 x 48 x 25 mm
Weight	0.47 kg
Interface	USB

Scope of Supply

Type	Description	Article Number
ng-TDH50-hu2 Spindle	Torque Driver Handpiece	01-01-00484-01
ng-TD-PS-24-80	Power Supply Unit	01-91-00006-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01
n-quirer TD	Torque Driver System Software	01-01-00215-01

ng-TDH50-hi Sensor Torque Driver System

Article Number	01-01-00350-02
Torque Range	5 to 50 cNm
Torque Measurement Accuracy	1 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	100 to 1,300 min ⁻¹
Bit Drive	4 mm Halfmoon
Dimensions	196 x 48 x 25 mm
Weight	0.47 kg
Interface	Digital to ng-TDC

Scope of Supply

Type	Description	Article Number
ng-TDH50-hi2 Spindle	Torque Driver Handpiece	01-01-00603-01
ng-TD-PS-24-80	Power Supply Unit	01-91-00006-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
ng-TD-Cable 2 m	Driver Cable 2 meters	01-90-00011-01
ng-TDC	Torque Driver Controller Interface	01-01-00220-01
n-quirer TD	Torque Driver System Software	01-01-00215-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01

ng-TDH100-hu Sensor Torque Driver System

Article Number	01-01-00268-01
Torque Range	10 to 100 cNm
Torque Measurement Accuracy	1 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	100 to 1,300 min ⁻¹
Bit Drive	4 mm Halfmoon
Dimensions	222 x 60 x 36 mm
Weight	0.98 kg
Interface	USB

Scope of Supply

Type	Description	Article Number
ng-TDH100-hu Spindle	Torque Driver Handpiece	01-01-00258-01
ng-TD-PS-36-600	Power Supply Unit	01-91-00004-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01
n-quirer TD	Torque Driver System Software	01-01-00215-01

ng-TDH100-hi Sensor Torque Driver System

Article Number	01-01-00269-01
Torque Range	10 to 100 cNm
Torque Measurement Accuracy	1 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	100 to 1,300 min ⁻¹
Bit Drive	4 mm Halfmoon
Dimensions	222 x 60 x 36 mm
Weight	0.98 kg
Interface	Digital to ng-TDC

Scope of Supply

Type	Description	Article Number
ng-TDH100-hi Spindle	Torque Driver Handpiece	01-01-00259-01
ng-TD-PS-36-600	Power Supply Unit	01-91-00004-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
ng-TD-Cable 2 m	Driver Cable 2 meters	01-90-00011-01
ng-TDC	Torque Driver Controller Interface	01-01-00220-01
n-quirer TD7	Torque Driver System Software	01-01-00215-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01

ng-TDH200-xu Sensor Torque Driver System

Article Number	01-01-00278-01
Torque Range	20 to 200 cNm
Torque Measurement Accuracy	1 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	100 to 1000 min ⁻¹
Bit Drive	1/4" Hexagon
Dimensions	222 x 60 x 36 mm
Weight	0.98 kg
Interface	USB

Scope of Supply

Type	Description	Article Number
ng-TDH200-xu Spindle	Torque Driver Handpiece	01-01-00283-01
ng-TD-PS-36-600	Power Supply Unit	01-91-00004-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01
n-quirer TD	Torque Driver System Software	01-01-00215-01

ng-TDH200-xi Sensor Torque Driver System

Article Number	01-01-00281-01
Torque Range	20 to 200 cNm
Torque Measurement Accuracy	1 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	100 to 1000 min ⁻¹
Bit Drive	1/4" Hexagon
Dimensions	222 x 60 x 36 mm
Weight	0.98 kg
Interface	Digital to ng-TDC

Scope of Supply

Type	Description	Article Number
ng-TDH200-xi Spindle	Torque Driver Handpiece	01-01-00284-01
ng-TD-PS-36-600	Power Supply Unit	01-91-00004-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
ng-TD-Cable 2 m	Driver Cable 2 meters	01-90-00011-01
ng-TDC	Torque Driver Controller Interface	01-01-00220-01
n-quirer TD	Torque Driver System Software	01-01-00215-01
USB Cable	Cable USB-A /USB Mini 1.8m	01-90-00002-01

ng-TDH400-xu Sensor Torque Driver System

Article Number	01-01-00271-01
Torque Range	40 to 400 cNm
Torque Measurement Accuracy	1 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	100 to 800 min ⁻¹
Bit Drive	1/4" Hexagon
Dimensions	222 x 60 x 36 mm
Weight	0.98 kg
Interface	USB

Scope of Supply

Type	Description	Article Number
ng-TDH400-xu Spindle	Torque Driver Handpiece	01-01-00260-01
ng-TD-PS-36-600	Power Supply Unit	01-91-00004-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01
n-quirer TD	Torque Driver System Software	01-01-00215-01

ng-TDH400-xi Sensor Torque Driver System

Article Number	01-01-00270-01
Torque Range	40 to 400 cNm
Torque Measurement Accuracy	1 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	100 to 800 min ⁻¹
Bit Drive	1/4" Hexagon
Dimensions	222 x 60 x 36 mm
Weight	0.98 kg
Interface	Digital to ng-TDC

Scope of Supply

Type	Description	Article Number
ng-TDH400-xi Spindle	Torque Driver Handpiece	01-01-00261-01
ng-TD-PS-36-600	Power Supply Unit	01-91-00004-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
ng-TD-Cable 2 m	Driver Cable 2 meters	01-90-00011-01
ng-TDC	Torque Driver Controller Interface	01-01-00220-01
n-quirer TD	Torque Driver System Software	01-01-00215-01
USB Cable	Cable USB-A /USB Mini 1.8m	01-90-00002-01

ng-TDH500-xu Sensor Torque Driver System

Article Number	01-01-00272-01
Torque Range	50 to 500 cNm
Torque Measurement Accuracy	1 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	100 to 600 min ⁻¹
Bit Drive	1/4" Hexagon
Dimensions	222 x 60 x 36 mm
Weight	0.98 kg
Interface	USB

Scope of Supply

Type	Description	Article Number
ng-TDH500-xu Spindle	Torque Driver Handpiece	01-01-00262-01
ng-TD-PS-36-600	Power Supply Unit	01-91-00004-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01
n-quirer TD	Torque Driver System Software	01-01-00215-01

ng-TDH500-xi Sensor Torque Driver System

Article Number	01-01-00273-01
Torque Range	50 to 500 cNm
Torque Measurement Accuracy	1 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	100 to 600 min ⁻¹
Bit Drive	1/4" Hexagon
Dimensions	222 x 60 x 36 mm
Weight	0.98 kg
Interface	Digital to ng-TDC

Scope of Supply

Type	Description	Article Number
ng-TDH500-xi Spindle	Torque Driver Handpiece	01-01-00263-01
ng-TD-PS-36-600	Power Supply Unit	01-91-00004-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
ng-TD-Cable 2 m	Driver Cable 2 meters	01-90-00011-01
ng-TDC	Torque Driver Controller Interface	01-01-00220-01
n-quirer TD	Torque Driver System Software	01-01-00215-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01

ng-TDH600-xu Sensor Torque Driver System

Article Number	01-01-00405-01
Torque Range	60 to 600 cNm
Torque Measurement Accuracy	1.0 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	50 to 500 min ⁻¹
Bit Drive	1/4" Hexagon
Dimensions	245 x 60 x 36 mm
Weight	1.15 kg
Interface	USB

Scope of Supply

Type	Description	Article Number
ng-TDH600-xu Spindle	Torque Driver Handpiece	01-01-00481-01
ng-TD-PS-36-600	Power Supply Unit	01-91-00004-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01
n-quirer TD	Torque Driver System Software	01-01-00215-01

ng-TDH600-xi Sensor Torque Driver System

Article Number	01-01-00406-01
Torque Range	60 to 600 cNm
Torque Measurement Accuracy	1.0 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	50 to 500 min ⁻¹
Bit Drive	1/4" Hexagon
Dimensions	245 x 60 x 36 mm
Weight	1.15 kg
Interface	Digital to ng-TDC

Scope of Supply

Type	Description	Article Number
ng-TDH600-xi Spindle	Torque Driver Handpiece	01-01-00482-01
ng-TD-PS-36-600	Power Supply Unit	01-91-00004-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
ng-TD-Cable 2 m	Driver Cable 2 meters	01-90-00011-01
ng-TDC	Torque Driver Controller Interface	01-01-00220-01
n-quirer TD	Torque Driver System Software	01-01-00215-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01

ng-TDH1000-xu Sensor Torque Driver System

Article Number	01-01-00295-01
Torque Range	1.0 to 10.0 Nm
Torque Measurement Accuracy	1 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	50 to 400 min ⁻¹
Bit Drive	1/4" Hexagon
Dimensions	258 x 66 x 40 mm
Weight	1.75 kg
Interface	USB

Scope of Supply

Type	Description	Article Number
ng-TDH1000-xu Spindle	Torque Driver Handpiece	01-01-00296-01
ng-TD-PS-36-600	Power Supply Unit	01-91-00004-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
USB-Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01
n-quirer TD	Torque Driver System Software	01-01-00215-01

ng-TDH1000-xi Sensor Torque Driver System

Article Number	01-01-00537-01
Torque Range	1.0 to 10.0 Nm
Torque Measurement Accuracy	1 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	50 to 400 min ⁻¹
Bit Drive	1/4" Hexagon
Dimensions	258 x 66 x 40 mm
Weight	1.75 kg
Interface	Digital to ng-TDC

Scope of Supply

Type	Description	Article Number
ng-TDH1000-xi Spindle	Torque Driver Handpiece	01-01-00536-01
ng-TD-PS-36-600	Power Supply Unit	01-91-00004-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
ng-TD-Cable 2 m	Driver Cable 2 meters	01-90-00011-01
ng-TDC	Torque Driver Controller Interface	01-01-00220-01
n-quirer TD	Torque Driver System Software	01-01-00215-01
USB-Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01

5.3 Handheld Sensor Measurement Drivers ng-TD HQ

These systems are designed for precise detection of torque and angle of rotation at low speed and are therefore ideal for measurement and adjustment processes. In terms of function, they are otherwise identical to the ng-TDH systems.

ng-TD HQ10-hu Sensor Measurement Driver System

Article Number	01-01-00391-01
Torque Range	1 to 10 cNm
Torque Measurement Accuracy	1 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	5 to 300 min ⁻¹
Bit Drive	4 mm Halfmoon
Dimensions	196 x 48 x 25 mm
Weight	0.47 kg
Interface	USB

Scope of Supply

Type	Description	Article Number
ng-TD HQ10-hu Spindle	Torque Driver Handpiece	01-01-00384-01
ng-TD-PS-24-80	Power Supply Unit	01-91-00006-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
USB Cable	Cable USB-A /USB Mini 1.8m	01-90-00002-01
n-quirer TD	Torque Driver System Software	01-01-00215-01

ng-TD HQ10-hi Sensor Measurement Driver System

Article Number	01-01-00390-01
Torque Range	1 to 10 cNm
Torque Measurement Accuracy	1 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	5 to 300 min ⁻¹
Bit Drive	4 mm Halfmoon
Dimensions	196 x 48 x 25 mm
Weight	0.47 kg
Interface	Digital to ng-TDC

Scope of Supply

Type	Description	Article Number
ng-TD HQ10-hi Spindle	Torque Driver Handpiece	01-01-00383-01
ng-TD-PS-24-80	Power Supply Unit	01-91-00006-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
ng-TD-Cable 2 m	Driver Cable 2 meters	01-90-00011-01
ng-TDC	Torque Driver Controller Interface	01-01-00220-01
n-quirer TD	Torque Driver System Software	01-01-00215-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01

ng-TD HQ20-hu Sensor Measurement Driver System

Article Number	01-01-00290-01
Torque Range	2 to 20 cNm
Torque Measurement Accuracy	1 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	5 to 300 min ⁻¹
Bit Drive	4 mm Halfmoon
Dimensions	196 x 48 x 25 mm
Weight	0.47 kg
Interface	USB

Scope of Supply

Type	Description	Article Number
ng-TD HQ20-hu Spindle	Torque Driver Handpiece	01-01-00382-01
ng-TD-PS-24-80	Power Supply Unit	01-91-00006-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01
n-quirer TD	Torque Driver System Software	01-01-00215-01

ng-TD HQ20-hi Sensor Measurement Driver System

Article Number	01-01-00389-01
Torque Range	2 to 20 cNm
Torque Measurement Accuracy	1 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	5 to 300 min ⁻¹
Bit Drive	4 mm Halfmoon
Dimensions	196 x 48 x 25 mm
Weight	0.47 kg
Interface	Digital to ng-TDC

Scope of Supply

Type	Description	Article Number
ng-TD HQ20-hi Spindle	Torque Driver Handpiece	01-01-00381-01
ng-TD-PS-24-80	Power Supply Unit	01-91-00006-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
ng-TD-Cable 2 m	Driver Cable 2 meters	01-90-00011-01
ng-TDC	Torque Driver Controller Interface	01-01-00220-01
n-quirer TD	Torque Driver System Software	01-01-00215-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01

ng-TD HQ50-hu Sensor Measurement Driver System

Article Number	01-01-00373-02
Torque Range	5 to 50 cNm
Torque Measurement Accuracy	1 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	5 to 300 min ⁻¹
Bit Drive	4 mm Halfmoon
Dimensions	196 x 48 x 25 mm
Weight	0.47 kg
Interface	USB

Scope of Supply

Type	Description	Article Number
ng-TD HQ50-hu Spindle	Torque Driver Handpiece	01-01-00371-01
ng-TD-PS-24-80	Power Supply Unit	01-91-00006-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01
n-quirer TD	Torque Driver System Software	01-01-00215-01

ng-TD HQ50-hi Sensor Measurement Driver System

Article Number	01-01-00372-02
Torque Range	5 to 50 cNm
Torque Measurement Accuracy	1 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	5 to 300 min ⁻¹
Bit Drive	4 mm Halfmoon
Dimensions	196 x 48 x 25 mm
Weight	0.47 kg
Interface	Digital to ng-TDC

Scope of Supply

Type	Description	Article Number
ng-TD HQ50-hi Spindle	Torque Driver Handpiece	01-01-00370-01
ng-TD-PS-24-80	Power Supply Unit	01-91-00006-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
ng-TD-Cable 2 m	Driver Cable 2 meters	01-90-00011-01
ng-TDC	Torque Driver Controller Interface	01-01-00220-01
n-quirer TD	Torque Driver System Software	01-01-00215-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01

ng-TD HQ100-hu Sensor Measurement Driver System

Article Number	01-01-00282-01
Torque Range	10 to 100 cNm
Torque Measurement Accuracy	1 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	5 to 300 min ⁻¹
Bit Drive	4 mm Halfmoon
Dimensions	222 x 60 x 36 mm
Weight	0.98 kg
Interface	USB

Scope of Supply

Type	Description	Article Number
ng-TD HQ100-hu Spindle	Torque Driver Handpiece	01-01-00302-01
ng-TD-PS-36-600	Power Supply Unit	01-91-00004-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01
n-quirer TD	Torque Driver System Software	01-01-00215-01

ng-TD HQ100-hi Sensor Measurement Driver System

Article Number	01-01-00388-01
Torque Range	10 to 100 cNm
Torque Measurement Accuracy	1 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	5 to 300 min ⁻¹
Bit Drive	4 mm Halfmoon
Dimensions	222 x 60 x 36 mm
Weight	0.98 kg
Interface	Digital to ng-TDC

Scope of Supply

Type	Description	Article Number
ng-TD HQ100-hi Spindle	Torque Driver Handpiece	01-01-00380-01
ng-TD-PS-36-600	Power Supply Unit	01-91-00004-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
ng-TD-Cable 2 m	Driver Cable 2 meters	01-90-00011-01
ng-TDC	Torque Driver Controller Interface	01-01-00220-01
n-quirer TD	Torque Driver System Software	01-01-00215-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01

ng-TD HQ200-xu Sensor Measurement Driver System

Article Number	01-01-00294-01
Torque Range	20 to 200 cNm
Torque Measurement Accuracy	1 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	5 to 300 min ⁻¹
Bit Drive	1/4" Hexagon
Dimensions	222 x 60 x 36 mm
Weight	0.98 kg
Interface	USB

Scope of Supply

Type	Description	Article Number
ng-TD HQ200-xu Spindle	Torque Driver Handpiece	01-01-00379-01
ng-TD-PS-36-600	Power Supply Unit	01-91-00004-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01
n-quirer TD	Torque Driver System Software	01-01-00215-01

ng-TD HQ200-xi Sensor Measurement Driver System

Article Number	01-01-00387-01
Torque Range	20 to 200 cNm
Torque Measurement Accuracy	1 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	5 to 300 min ⁻¹
Bit Drive	1/4" Hexagon
Dimensions	222 x 60 x 36 mm
Weight	0.98 kg
Interface	Digital to ng-TDC

Scope of Supply

Type	Description	Article Number
ng-TD HQ200-xi Spindle	Torque Driver Handpiece	01-01-00378-01
ng-TD-PS-36-600	Power Supply Unit	01-91-00004-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
ng-TD-Cable 2 m	Driver Cable 2 meters	01-90-00011-01
ng-TDC	Torque Driver Controller Interface	01-01-00220-01
n-quirer TD	Torque Driver System Software	01-01-00215-01
USB Cable	Cable USB-A /USB Mini 1.8m	01-90-00002-01

ng-TD HQ400-xu Sensor Measurement Driver System

Article Number	01-01-00293-01
Torque Range	40 to 400 cNm
Torque Measurement Accuracy	1 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	5 to 300 min ⁻¹
Bit Drive	1/4" Hexagon
Dimensions	222 x 60 x 36 mm
Weight	0.98 kg
Interface	USB

Scope of Supply

Type	Description	Article Number
ng-TD HQ400-xu Spindle	Torque Driver Handpiece	01-01-00377-01
ng-TD-PS-36-600	Power Supply Unit	01-91-00004-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01
n-quirer TD	Torque Driver System Software	01-01-00215-01

ng-TD HQ400-xi Sensor Measurement Driver System

Article Number	01-01-00386-01
Torque Range	40 to 400 cNm
Torque Measurement Accuracy	1 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	5 to 300 min ⁻¹
Bit Drive	1/4" Hexagon
Dimensions	222 x 60 x 36 mm
Weight	0.98 kg
Interface	Digital to ng-TDC

Scope of Supply

Type	Description	Article Number
ng-TD HQ400-xi Spindle	Torque Driver Handpiece	01-01-00376-01
ng-TD-PS-36-600	Power Supply Unit	01-91-00004-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
ng-TD-Cable 2 m	Driver Cable 2 meters	01-90-00011-01
ng-TDC	Torque Driver Controller Interface	01-01-00220-01
n-quirer TD	Torque Driver System Software	01-01-00215-01
USB Cable	Cable USB-A /USB Mini 1.8m	01-90-00002-01

ng-TD HQ500-xu Sensor Measurement Driver System

Article Number	01-01-00291-01
Torque Range	50 to 500 cNm
Torque Measurement Accuracy	1 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	5 to 300 min ⁻¹
Bit Drive	1/4" Hexagon
Dimensions	222 x 60 x 36 mm
Weight	0.98 kg
Interface	USB

Scope of Supply

Type	Description	Article Number
ng-TD HQ500-xu Spindle	Torque Driver Handpiece	01-01-00375-01
ng-TD-PS-36-600	Power Supply Unit	01-91-00004-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01
n-quirer TD	Torque Driver System Software	01-01-00215-01

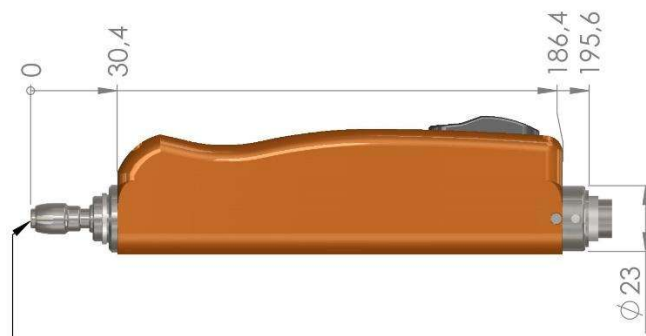
ng-TD HQ500-xi Sensor Measurement Driver System

Article Number	01-01-00385-01
Torque Range	50 to 500 cNm
Torque Measurement Accuracy	1 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	5 to 300 min ⁻¹
Bit Drive	1/4" Hexagon
Dimensions	222 x 60 x 36 mm
Weight	0.98 kg
Interface	Digital to ng-TDC

Scope of Supply

Type	Description	Article Number
ng-TD HQ500-xi Spindle	Torque Driver Handpiece	01-01-00374-01
ng-TD-PS-36-600	Power Supply Unit	01-91-00004-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
ng-TD-Cable 2 m	Driver Cable 2 meters	01-90-00011-01
ng-TDC	Torque Driver Controller Interface	01-01-00220-01
n-quirer TD	Torque Driver System Software	01-01-00215-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01

Dimensions and Weighth:



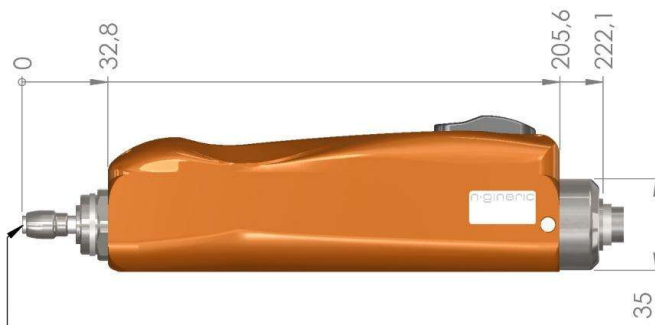
4-mm Halfmoon Bit Drive
Insertion Depth 16 mm



ng-TDH10-hi
ng-TDH20-hi
ng-TDH50-hi
ng-TD HQ10-hi
ng-TD HQ20-hi
ng-TD HQ50-hi

ng-TDH10-hu
ng-TDH20-hu
ng-TDH50-hu
ng-TD HQ10-hu
ng-TD HQ20-hu
ng-TD HQ50-hu

Weight: 0,47 kg



4-mm Halfmoon Bit Drive
Insertion Depth 16 mm



ng-TDH100-hi
ng-TD HQ100-hi

ng-TDH100-hu
ng-TD HQ100-hu

Weight: 0,98 kg



ng-TDH200-xi
ng-TDH400-xi
ng-TDH500-xi
ng-TD HQ200-xi
ng-TD HQ400-xi
ng-TD HQ500-xi



ng-TDH200-xu
ng-TDH400-xu
ng-TDH500-xu
ng-TD HQ200-xu
ng-TD HQ400-xu
ng-TD HQ500-xu

Weight: 0,98 kg

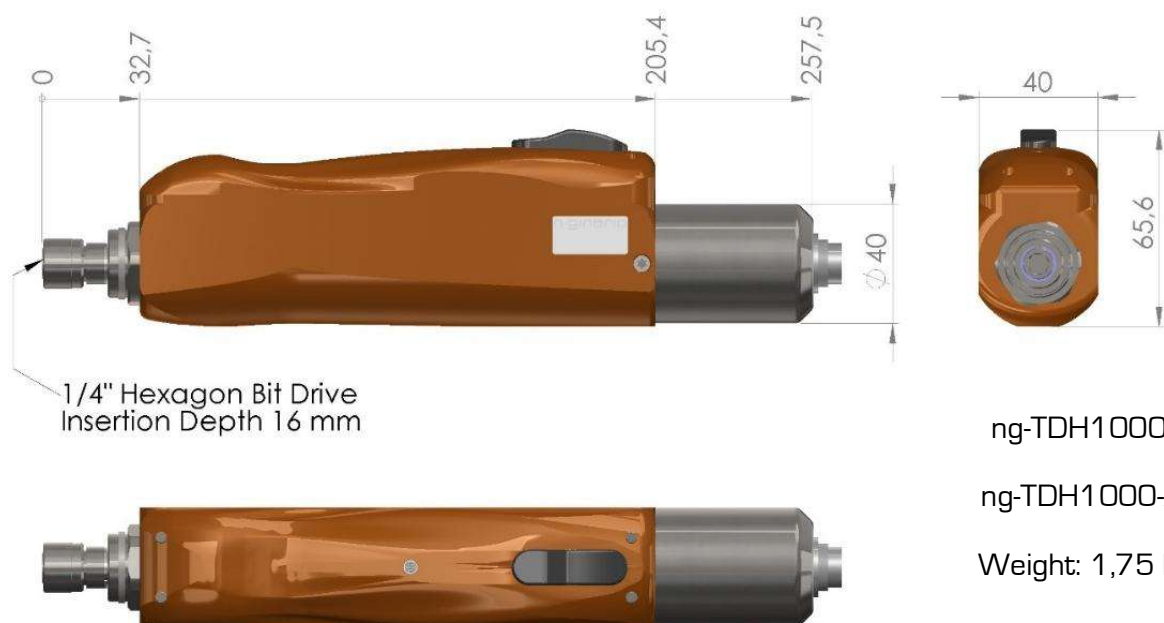


ng-TDH600-xi

ng-TDH600-xu

Weight: 1,15 kg





5.4 Handheld Sensor Torque Drivers ng-eTDH

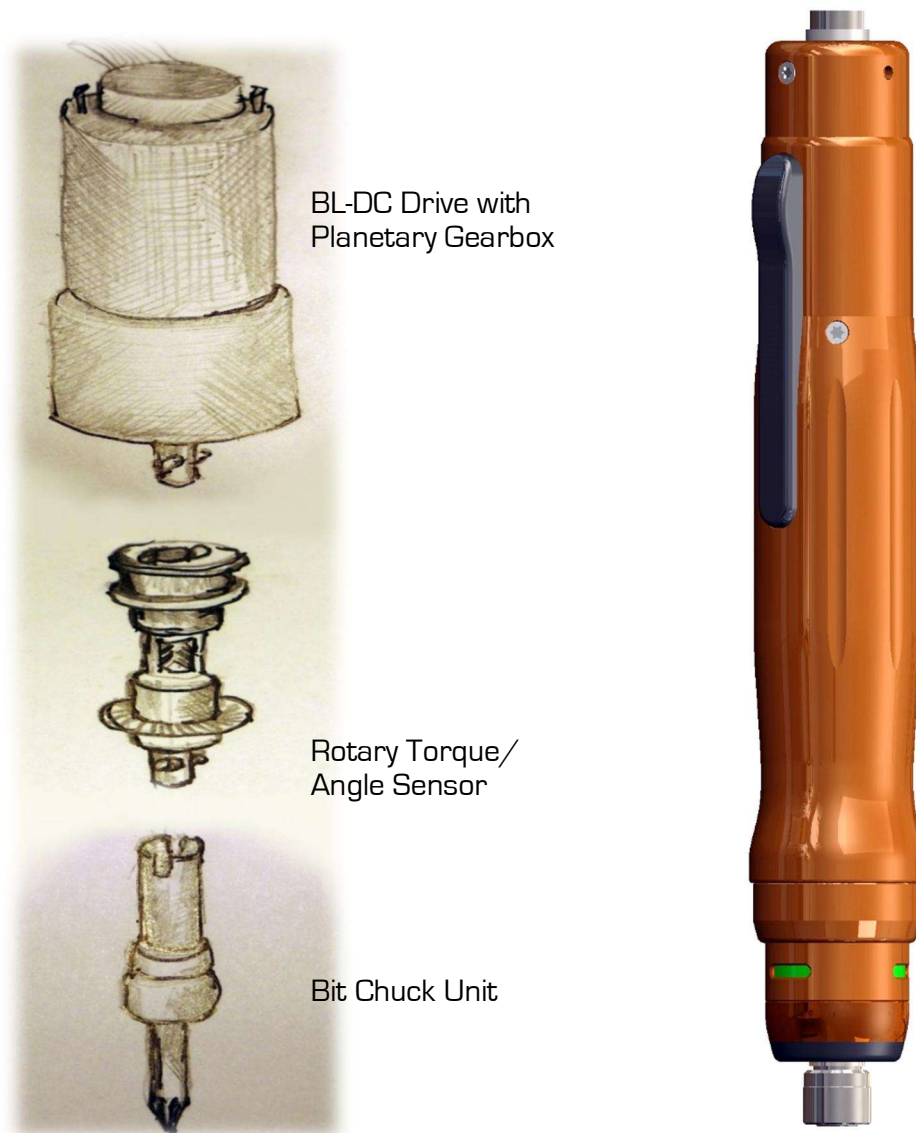


- Torque Range:
 - 0.1 – 1.0 Nm
 - 0.2 – 2.0 Nm
 - 0.4 – 4.0 Nm
 - 0.5 – 5.0 Nm
 - 1.0 – 10.0 Nm
- Ultimate Torque/Angle Measurement Precision:
 - Strain Gage based Rotary Torque Sensor integrated at the Bit Chuck
 - 24 bits A/D Converter Resolution of the Torque Measurement at the Rotary Part
 - Brushless Digital Signal Transmission from the Rotary to the Stationary Part
 - 0.1 Degrees Resolution of the Angle Measurement directly at the Bit Chuck
- Massive Aluminum Housing
- Ergonomic handle
- Push-to-Start
- Front-LEDs
- Brushless DC Motor Technology
- Adaptive Screw Tightening Strategies
- All Controls integrated
- Industry-4.0-compliant
- Precise in measurement and highly productive

The **adaptive screwing strategies** are used to compensate for fluctuations in the head contact torque when screwing in thread-forming screws.

The aim of a clamping force that is as constant as possible is thus achieved even with critical screw connections.

Inner Structure:



Torque Driver Nomenclature:

ng-eTDH□ □-□□ □

- └ u = USB direct
- └ i = with ng-TDC Interface
- └ x = Hexagon Bit Chuck
- └ Torque Range in cNm
- └ H = Handheld
- └ eTD = Torque Driver (Screwdriver system, Economy-Version)
- └ ng = n-gineric Product

ng-eTDH100-xu Sensor Torque Driver System

Article Number	01-01-00558-01
Torque Range	10 to 100 cNm
Torque Measurement Accuracy	2 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	100 to 1,300 min ⁻¹
Bit Drive	1/4" Hexagon
Dimensions	Ø 42 x 279 mm
Weight	0.88 kg
Interface	USB

Scope of Supply

Type	Description	Article Number
ng-eTDH100-xu Spindle	Torque Driver Handpiece	01-01-00557-01
ng-TD-PS-36-600	Power Supply Unit	01-91-00004-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
USB Cable	Cable USB-A /USB Mini 1.8m	01-90-00002-01
n-quirer TD	Torque Driver System Software	01-01-00215-01

ng-eTDH100-xi Sensor Torque Driver System

Article Number	01-01-00560-01
Torque Range	10 to 100 cNm
Torque Measurement Accuracy	2 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	100 to 1,300 min ⁻¹
Bit Drive	1/4" Hexagon
Dimensions	Ø 42 x 279 mm
Weight	0.88 kg
Interface	Digital to ng-TDC

Scope of Supply

Type	Description	Article Number
ng-eTDH100-xi Spindle	Torque Driver Handpiece	01-01-00559-01
ng-TD-PS-36-600	Power Supply Unit	01-91-00004-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
ng-TD-Cable 2 m	Driver Cable 2 meters	01-90-00011-01
ng-TDC	Torque Driver Controller Interface	01-01-00220-01
n-quirer TD	Torque Driver System Software	01-01-00215-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01

ng-eTDH200-xu Sensor Torque Driver System

Article Number	01-01-00562-01
Torque Range	20 to 200 cNm
Torque Measurement Accuracy	2 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	100 to 1000 min ⁻¹
Bit Drive	1/4" Hexagon
Dimensions	Ø 42 x 279 mm
Weight	0.88 kg
Interface	USB

Scope of Supply

Type	Description	Article Number
ng-eTDH200-xu Spindle	Torque Driver Handpiece	01-01-00561-01
ng-TD-PS-36-600	Power Supply Unit	01-91-00004-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01
n-quirer TD	Torque Driver System Software	01-01-00215-01

ng-eTDH200-xi Sensor Torque Driver System

Article Number	01-01-00564-01
Torque Range	20 to 200 cNm
Torque Measurement Accuracy	2 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	100 to 1000 min ⁻¹
Bit Drive	1/4" Hexagon
Dimensions	Ø 42 x 279 mm
Weight	0.88 kg
Interface	Digital to ng-TDC

Scope of Supply

Type	Description	Article Number
ng-eTDH200-xi Spindle	Torque Driver Handpiece	01-01-00563-01
ng-TD-PS-36-600	Power Supply Unit	01-91-00004-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
ng-TD-Cable 2 m	Driver Cable 2 meters	01-90-00011-01
ng-TDC	Torque Driver Controller Interface	01-01-00220-01
n-quirer TD	Torque Driver System Software	01-01-00215-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01

ng-eTDH400-xu Sensor Torque Driver System

Article Number	01-01-00566-01
Torque Range	40 to 400 cNm
Torque Measurement Accuracy	2 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	100 to 800 min ⁻¹
Bit Drive	1/4" Hexagon
Dimensions	Ø 42 x 279 mm
Weight	0.88 kg
Interface	USB

Scope of Supply

Type	Description	Article Number
ng-eTDH400-xu Spindle	Torque Driver Handpiece	01-01-00565-01
ng-TD-PS-36-600	Power Supply Unit	01-91-00004-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01
n-quirer TD	Torque Driver System Software	01-01-00215-01

ng-eTDH400-xi Sensor Torque Driver System

Article Number	01-01-00568-01
Torque Range	40 to 400 cNm
Torque Measurement Accuracy	2 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	100 to 800 min ⁻¹
Bit Drive	1/4" Hexagon
Dimensions	Ø 42 x 279 mm
Weight	0.88 kg
Interface	Digital to ng-TDC

Scope of Supply

Type	Description	Article Number
ng-eTDH400-xi Spindle	Torque Driver Handpiece	01-01-00567-01
ng-TD-PS-36-600	Power Supply Unit	01-91-00004-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
ng-TD-Cable 2 m	Driver Cable 2 meters	01-90-00011-01
ng-TDC	Torque Driver Controller Interface	01-01-00220-01
n-quirer TD	Torque Driver System Software	01-01-00215-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01

ng-eTDH500-xu Sensor Torque Driver System

Article Number	01-01-00570-01
Torque Range	50 to 500 cNm
Torque Measurement Accuracy	2 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	100 to 600 min ⁻¹
Bit Drive	1/4" Hexagon
Dimensions	Ø 42 x 279 mm
Weight	0.88 kg
Interface	USB

Scope of Supply

Type	Description	Article Number
ng-eTDH500-xu Spindle	Torque Driver Handpiece	01-01-00569-01
ng-TD-PS-36-600	Power Supply Unit	01-91-00004-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01
n-quirer TD	Torque Driver System Software	01-01-00215-01

ng-eTDH500-xi Sensor Torque Driver System

Article Number	01-01-00572-01
Torque Range	50 to 500 cNm
Torque Measurement Accuracy	2 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	100 to 600 min ⁻¹
Bit Drive	1/4" Hexagon
Dimensions	Ø 42 x 279 mm
Weight	0.88 kg
Interface	Digital to ng-TDC

Scope of Supply

Type	Description	Article Number
ng-eTDH500-xi Spindle	Torque Driver Handpiece	01-01-00571-01
ng-TD-PS-36-600	Power Supply Unit	01-91-00004-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
ng-TD-Cable 2 m	Driver Cable 2 meters	01-90-00011-01
ng-TDC	Torque Driver Controller Interface	01-01-00220-01
n-quirer TD	Torque Driver System Software	01-01-00215-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01

ng-eTDH1000-xu Sensor Torque Driver System

Article Number	01-01-00609-01
Torque Range	1.0 to 10.0 Nm
Torque Measurement Accuracy	2 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	50 to 400 min ⁻¹
Bit Drive	1/4" Hexagon
Dimensions	Ø 47.5 x 335 mm
Weight	1.65 kg
Interface	USB

Scope of Supply

Type	Description	Artikelnummer
ng-eTDH1000-xu Spindle	Torque Driver Handpiece	01-01-00608-01
ng-TD-PS-36-600	Power Supply Unit	01-91-00004-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01
n-quirer TD	Torque Driver System Software	01-01-00215-01

ng-eTDH1000-xi Sensor Torque Driver System

Article Number	01-01-00611-01
Torque Range	1.0 to 10.0 Nm
Torque Measurement Accuracy	2 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	50 to 400 min ⁻¹
Bit Drive	1/4" Hexagon
Dimensions	Ø 47.5 x 335 mm
Weight	1.65 kg
Interface	Digital to ng-TDC

Scope of Supply

Type	Description	Artikelnummer
ng-eTDH1000-xi Spindle	Torque Driver Handpiece	01-01-00610-01
ng-TD-PS-36-600	Power Supply Unit	01-91-00004-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
ng-TD-Cable 2 m	Driver Cable 2 meters	01-90-00011-01
ng-TDC	Torque Driver Controller Interface	01-01-00220-01
n-quirer TD	Torque Driver System Software	01-01-00215-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01

ng-eTDH2000-xu Sensor Torque Driver System

Article Number	01-01-00701-01
Torque Range	2.0 to 20.0 Nm
Torque Measurement Accuracy	2 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	50 to 400 min ⁻¹
Bit Drive	1/4" Hexagon
Dimensions	Ø 47.5 x 347 mm
Weight	1.65 kg
Interface	USB

Scope of Supply

Type	Description	Artikelnummer
ng-eTDH2000-xu Spindle	Torque Driver Handpiece	01-01-00700-01
ng-TD-PS-36-600	Power Supply Unit	01-91-00004-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01
n-quirer TD	Torque Driver System Software	01-01-00215-01

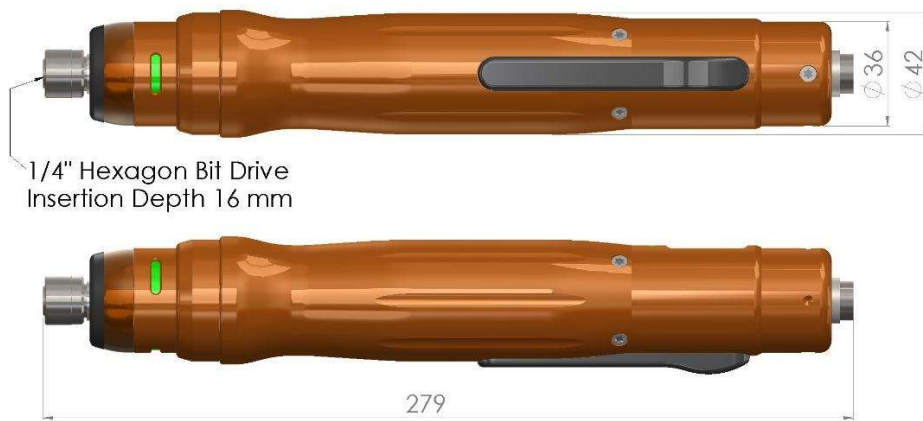
ng-eTDH2000-xi Sensor Torque Driver System

Article Number	01-01-00694-01
Torque Range	2.0 to 20.0 Nm
Torque Measurement Accuracy	2 % of the F.S.R.
Angle Measurement Resolution	0.1 Degrees
RPM Range	50 to 400 min ⁻¹
Bit Drive	1/4" Hexagon
Dimensions	Ø 47.5 x 347 mm
Weight	1.65 kg
Interface	Digital to ng-TDC

Scope of Supply

Type	Description	Artikelnummer
ng-eTDH2000-xi Spindle	Torque Driver Handpiece	01-01-00693-01
ng-TD-PS-36-600	Power Supply Unit	01-91-00004-01
ng-TD-Cable 3 m	Driver Cable 3 meters	01-90-00014-01
ng-TD-Cable 2 m	Driver Cable 2 meters	01-90-00011-01
ng-TDC	Torque Driver Controller Interface	01-01-00220-01
n-quirer TD	Torque Driver System Software	01-01-00215-01
USB Cable	Cable USB-A /USB Mini 1.8 m	01-90-00002-01

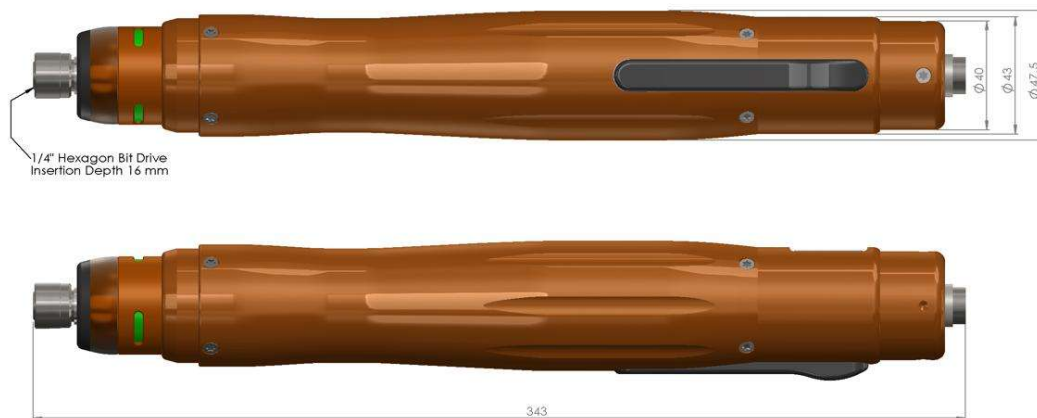
Dimensions and Weigth:



ng-eTDH100-xi
ng-eTDH200-xi
ng-eTDH400-xi
ng-eTDH500-xi

ng-eTDH100-xu
ng-eTDH200-xu
ng-eTDH400-xu
ng-eTDH500-xu

Weight: 0,88 kg



ng-eTDH1000-xi

ng-eTDH1000-xu

Weight: 1,65 kg