



DE1*Series*

ELECTRIC NUTRUNNERS

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DE1Series



PRODUCTLINK

ELECTRIC NUTRUNNERS

The torque nutrunners of the **DE1Series** represent modern bolting technology in a modular system that can be flexibly adapted to different requirements.

It is available in three versions: The **DE1power** offers a robust, reliable entry-level solution for basic bolting tasks. The **DE1docu** version expands the range of functions to include Wi-Fi connectivity and integrated documentation of the bolting processes. Finally, the **DE1control** also includes all common tightening methods, making it ideal for demanding applications with high quality requirements.

FEATURES AT A GLANCE

DE1power

Robust and user-friendly next-generation devices.

These devices set new standards in terms of precision, speed and ergonomics.



Torque mode

DE1docu

The upgrade to the *docu* version:

Documents the tightening results and transmits them via Wi-Fi.



Documentation



WiFi-compatible



Torque mode

DE1control

Extends the range of functions to include all common bolting methods:



Torque/rotation angle mode



Rotation angle counting mode



Rotation angle mode



Test mode



Documentation



WiFi-compatible



Torque mode

DE1Series

THE FEATURES

All torque nutrunners in the **DE1Series** have the following basic features



1 DISPLAY

Display of all bolted joint and device information in the multifunction display

2 DRIVE

High repeat accuracy, temperature monitoring with overheating cut-off and automatic adjustment to the mains frequency thanks to modern motor control.

3 ROTATING JOINT

Features a stepless, 360° rotating joint

4 OPTIMISED GEARBOX

The gearbox, designed for continuous load, is even slimmer, shorter and lighter.

5 ERGONOMICS

The low-vibration technology protects muscles and joints. Easy to operate with gloves. Suitable for right- and left-handed users.

► Also available as an angle version



► Sturdy transport case included



DE1*power*

WHEN STRENGTH AND SPEED MATTER

The rugged one – for quantitative applications up to 8,000 Nm. Strong and reliable, it can handle any challenge.



BOLTING PROCESS

Tightening connections using the torque method

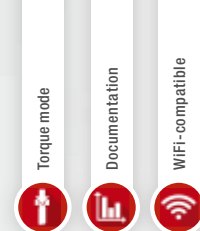


SUITABLE FOR CONSTRUCTION SITES

Rugged entry-level device with highest quality, offering the most important functions for daily use



DE1docu



SMART, BACKED BY CONVINCING ARGUMENTS

The advanced model – for demanding applications up to 8,000 Nm. High torque accuracy is achieved by compensating for voltage fluctuations and temperature changes.



DISPLAY

Indicates all bolting case information via a multifunctional OLED display



SMART DEVICE

Complete recording and evaluation of bolting results via the integrated web server, accessible on mobile devices through Wi-Fi (not included in delivery).

FEATURES

- ▶ Torque-based bolting
- ▶ Documentation of bolting operations via Wi-Fi
- ▶ Torque lock
- ▶ Storage space for 50 programmable bolting operations

DE1control

THE COMPLETE RANGE OF FUNCTIONS

The DE1control sets standards in precision and versatility. Its innovative software enables additional features in the area of various bolting processes.

The torque/rotation angle mode (combined process) can be carried out in a single step. Alternatively, the joining torque and the subsequent rotation angle can be applied in pure rotation angle mode.



TORQUE MODE

- ▶ Two-digit torque value 00-99 can be set using the push buttons
- ▶ Set torque (according to the enclosed torque table) can optionally be displayed

ROTATION ANGLE MODE

- ▶ Limitation of the maximum total torque possible (protection of the tool, protection of the bolt connection against overtightening)
- ▶ Adjustment of the joining torque in 100 adjustment steps according to the torque table
- ▶ Adjustment of the angle of rotation up to 999°

TORQUE/ROTATION ANGLE MODE

- ▶ Adjustment of the joining torque in 100 adjustment steps according to the torque table
- ▶ Adjustment of the angle of rotation up to 999°

ROTATION ANGLE COUNTING MODE

- ▶ The nutrunner is switched off by torque control.
- ▶ The angle of rotation is counted from the minimum torque of the respective power class and serves as a control variable.

TEST MODE

- ▶ Checking pre-tightened bolts without overtightening
- ▶ Up to size 36 and not for 110V and angle versions



**COMBINED
TORQUE/
ROTATION ANGLE
MODE**

MODELS // DATA



DE1

Typ Type	min. Drehmoment min. torque		max. Drehmoment max. torque		L1		H1		D1		Drehzahl Max. speed		Gewicht* Weight*		Vierkant Squaredrive	
	Nm	ft-lbs	Nm	ft-lbs	mm	inch	mm	inch	mm	inch	U/min 110 V	rpm 230 V	kg	lbs	Zoll	inch
DE1-10	150	111	1.000	740	425	16.73	195	7.68	68,5	2.70	9,0	12,0	5,9	13.0	3/4"	
DE1-20	250	184	2.000	1,480	449	17.68	195	7.68	80,0	3.15	5,9	8,0	7,0	15.4	1"	
DE1-30	450	332	3.000	2,210	465	18.31	195	7.68	80,0	3.15	4,5	5,2	7,2	15.9	1"	
DE1-36	500	369	3.600	2,660	465	18.31	195	7.68	80,0	3.15	3,5	4,6	7,2	15.9	1"	
DE1-48	700	516	4.800	3,540	497	19.57	195	7.68	86,0	3.39	2,0	2,5	9,1	20.1	1 1/2"	
DE1-80	1.200	885	8.000	5,900	565	22.24	195	7.68	101,0	3.98	0,7	0,7	13,2	29.1	1 1/2"	

Repeat accuracy: 4%, depending on the bolting application.

Technical data subject to change without notice. *Specification without reaction arm.



DE1 ANGLE VERSIONS

Typ Type	min. Drehmoment min. torque		max. Drehmoment max. torque		L1		H1		H2		D1		Drehzahl max. speed		Gewicht* weight*		Vierkant Squaredrive	
	Nm	ft-lbs	Nm	ft-lbs	mm	inch	mm	inch	mm	inch	mm	inch	U/min 110 V	rpm 230 V	kg	lbs	Zoll	inch
DE1-10-W	150	111	1.000	740	342	13.46	195	7.68	253,0	9.96	68,5	2.70	9,0	12,0	7,1	15,6	3/4"	
DE1-20-W	250	184	2.000	1,480	342	13.46	195	7.68	277,5	10.92	80,0	3.15	5,9	8,0	8,3	18.3	1"	
DE1-30-W	450	332	3.000	2,210	342	13.46	195	7.68	293,5	11.55	80,0	3.15	4,5	5,2	8,6	18.9	1"	
DE1-36-W	500	369	3.600	2,660	342	13.46	195	7.68	293,5	11.55	80,0	3.15	3,5	4,6	8,6	18.9	1"	
DE1-48-W	700	516	4.800	3,540	342	13.46	195	7.68	326,0	12.83	86,0	3.39	2,0	2,5	10,2	22.5	1 1/2"	
DE1-80-W	1.200	885	8.000	5,900	342	13.46	195	7.68	393,0	15.47	101,0	3.98	0,7	0,7	14,5	31.9	1 1/2"	

Repeat accuracy: 4%, depending on the bolting application.

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PLARAD®

Maschinenfabrik Wagner GmbH & Co. KG

Birrenbachshöhe 17
D-53804 Much // Germany
info@plarad.de

WWW.PLARAD.COM