



Electric Pistol Nutrunner

Product Capability Performance

Valid from Serial No. 25x00000xxxxx to 29x00000xxxxx

Model

EPD Series

Part number



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	⚠ WARNING
	Read all safety warnings and instructions
	Failure to follow the safety warnings and instructions may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference

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Table 0 - Applicable to below models:

Model	Part Number
EPD7-2080-4Q	6151662810
EPD7-2080-4Q-1	6151662820
EPD7-2080-4Q-5	6151662830
EPD7-2080-10S	6151662840
EPD7-2080-10S-1	6151662850
EPD7-2080-10S-5	6151662860
EPD10-1520-4Q	6151662870
EPD10-1520-4Q-1	6151662880
EPD10-1520-4Q-5	6151662890
EPD10-1520-10S	6151662900
EPD10-1520-10S-1	6151662910
EPD10-1520-10S-5	6151662920
EPD16-1120-4Q	6151662930
EPD16-1120-4Q-1	6151662940
EPD16-1120-4Q-5	6151662950
EPD16-1120-10S	6151662960
EPD16-1120-10S-1	6151662970
EPD16-1120-10S-5	6151662980
EPD20-1770-10S	6151662990
EPD20-1770-10S-1	6151663000
EPD20-1770-10S-5	6151663010
EPD27-1230-10S	6151663020
EPD27-1230-10S-1	6151663030
EPD27-1230-10S-5	6151663040
EPD40-1260-10S	6151663050
EPD40-1260-10S-1	6151663060
EPD40-1260-10S-5	6151663070
EPD70-850-SQ1/2	6151663080
EPD70-850-SQ1/2-1	6151663090
EPD70-850-SQ1/2-5	6151663100
EPD110-560-SQ1/2	6151663110
EPD110-560-SQ1/2-1	6151663120
EPD110-560-SQ1/2-5	6151663130

Product Information

Foreword

This information comes from actual production samples considered representative of Desoutter quality even though the performance might differ from one sample to another.

Terms and definitions

6s (ISO5393:2017): range of probability, plus and minus three standard deviations from the mean, derived from a sample of a statistical population. For a normally distributed statistical population, 99.73 % of all members of that population are encompassed.

6s torque scatter %: 6s torque scatter as a percentage of the mean torque. Assessed in multiple test conditions including multiple joint stiffnesses and target torques to predict how the tool can perform along the whole torque range.

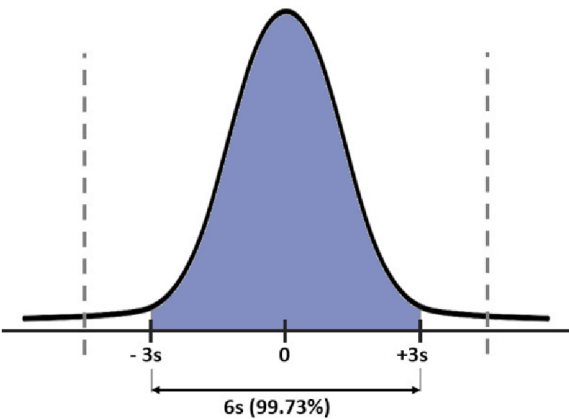


Illustration 1: Representation of the Gauss curve and 6s torque scatter

Performance characteristics and applicable torque range

Applicable torque range (Nm): Minimum torque (0%) - Maximum torque (100%)		
Applicable standard	ISO5393 (6s torque scatter % < ± 3.5%)	VDI/VDE 2647 (tolerance class: ± 7%) ISO5393 (6s torque scatter % < ± 2.5%)
Model		
EPD7-2080	0.5-1 Nm	1-7 Nm
EPD10-1520	1.5-2 Nm	2-10 Nm
EPD16-1120		2-16 Nm
EPD20-1770		2-20 Nm
EPD27-1230		3-27 Nm
EPD40-1260		4-40 Nm
EPD70-850		7-70 Nm
EPD110-560		20-100 Nm

Additional information on capability standard application

VDI/VDE 2647 and VDI/VDE 2645 standard application

Test conditions:

- VDI/VDE 2647 and VDI/VDE 2645
- No additional calibration adjustment in between test cases unless stated
- Sample size: 100 tightening per test case
- The reported data is based on tests conducted on three randomly selected tools sample from production (each Torque x Speed variant) satisfying as follow:

Performance criteria on torque capability

VDI 2645-Part 2 (table 5)

Tolerance class: $\pm 7\%$ $C_m \geq 2.00$, $C_{mk} \geq 1.67$

Target torque: 30%, 80%, 100%

Joint stiffness:

- $30^\circ \pm 5^\circ$ from 50% to 100% target torque
- $360^\circ \pm 15^\circ$ from 50% to 100% target torque

Performance criteria on angle capability

VDI 2645-Part 2 (table 5)

Target angle	Target torque	Tolerance
40°	20% to 60% max torque	$\pm 5^\circ$
180°	20% to 80% max torque	$\pm 10^\circ$

Original instructions

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