

DUROFIX™

RI60164A1-6-SO

HIGH TORQUE CONTROLLED MECHANICAL PULSE SYSTEM

- Shut OFF Torque Range 40 NM – 1350 Nm / 28 Ft LBS – 1024 Ft Lbs.
- Programable Torque Level with Lockout Feature
- Great for Center-Lock / Ny-loc Nuts / Prevailing Torque Joints
- Robust metal gearbox housing for durability
- Integrated LED light for convenient illumination during work
- Outstanding performance and ergonomic design
- **REACTIONLESS TORQUE CONTORL**



TECHNICAL SPECIFICATIONS

Voltage	60V
Drive Size	3/4" Square
Max. Tightening Torque	1,600 Nm
Max. Reverse Torque	2,240 Nm
No Load Speed	0 - 1,800 RPM
Impacts per Minute	0 - 2,400 IPM
Tool Weight (w/o battery)	2.94 kg

TECHNOLOGIES



Electronic Torque Control uses our advanced tightening technology to automatically shut off when the correct torque has been achieved. Different models will have alternative different stages to customize your workflow to optimize to the correct workload.



Our Patented all-in-one motor integrates multiple components into a single unit, reducing size and complexity while improving efficiency and reliability



DC motors have traditionally been driven by carbon brushes to power the motor. Over time these wear out and need replacing. All our motors are brushless meaning that the motor is controlled electronically without the need for carbon brushes ensuring your tool is maintenance-free.

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ESTIMATED Torque Values

All tools should be calibrated to their job but below are the torque settings based on a lubricated 1.250" bolt, on a hard joint. These should be used as a baseline, start point but please remember that your torques will vary depending on your application characteristics.

Setting	Approximate Torque		Average Bolt Pressure
1	40 NM	28 FT LBS	1500
10	225 NM	166 FT LBS	9000
20	400 NM	295 FT LBS	16000
30	675 NM	497 FT LBS	27000
40	1125 NM	829 FT LBS	45000
46	1389 NM	1024 FT LBS	55000



These Values were determined using a Skidmore torque tester. This system uses the displacement of hydraulic fluid to determine bolt pressure / preload without having to change Hertz frequency or other variables. We recommend using a unit like that or the AWS Impact torque stand, which also is designed to read the torque of impacting tools.

We have also had great success using "Back to the Mark" as an auditing method of the applied torque to your joint. Simply torque the bolt with an accepted method, mark the bolt and casting in a straight line, break the bolt loose but keep the threads engaged and reapply torque with the Durofix tool. When the marks line up, you know the correct torque setting has been applied.

If you have questions about how to audit torque on these please contact Jacob Grossmann at jacob@aehh.net or 217-820-0289.