

Cleco®

Smaller, Faster, Lighter

The New Cleco 64 Series Swingbar Nutrunners




COOPER Tools

Cleco 64 Series. Higher Torque, High

Smaller, Faster, Lighter

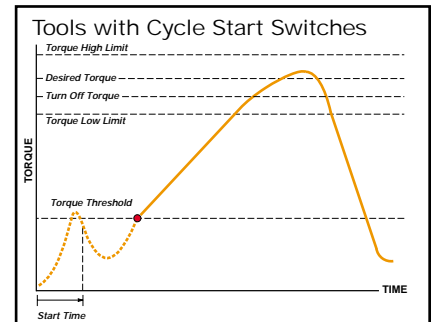
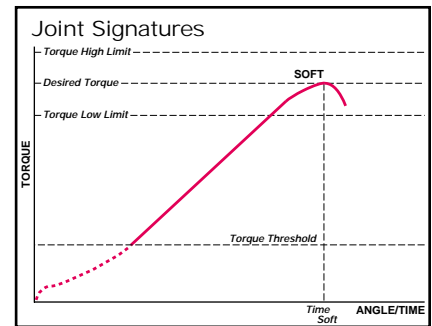
Cleco proudly introduces the new 64 Series Swingbar Nutrunners. For high torque applications where a small tool is necessary, for consistency in clamp load across joint types or for simply eliminating the maintenance needs of an angle tool, the new 64 Series tools provide the best solution for today's heavy assembly environment.

Benefits of a Swingbar Tool

Both prevailing torque and type of joint can limit the accuracy of a clutch or pulse tool. On softer joints, torque threshold is reached early in the fastening cycle resulting in long rundowns, especially difficult on pulse tools.

On these long rundowns, a swingbar tool that is able to maintain a steady speed minimizes the time required to run down a fastener.

On a typical hard joint with prevailing torque, a torque spike will occur which can prematurely shut off a clutch or pulse tool. In tools with speed shifts, a torque spike will also cause the speed to shift down resulting in a slower rundown. The Cleco 64 Series Swingbar Nutrunners are not affected by torque spikes.



Reversible

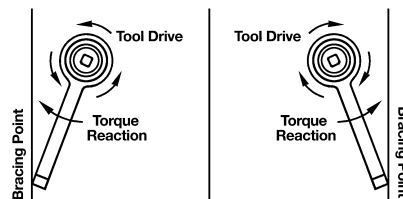
A simple to use and convenient slide reverse lever improves productivity by allowing for the loosening of fasteners without changing tools.

Improved Ergonomics

Top and bottom air inlets help customize the 64 Series Swingbar Nutrunners to the operator's work area.

Ergonomics

Multi-position reaction bar eliminates reaction forces of the rundown.



Torque Bar Opposes Rotation of Tool

Improved Ergonomics

Comfort molded handles and lighter weights reduce operator fatigue and improve productivity



her Speed and Greater Productivity.



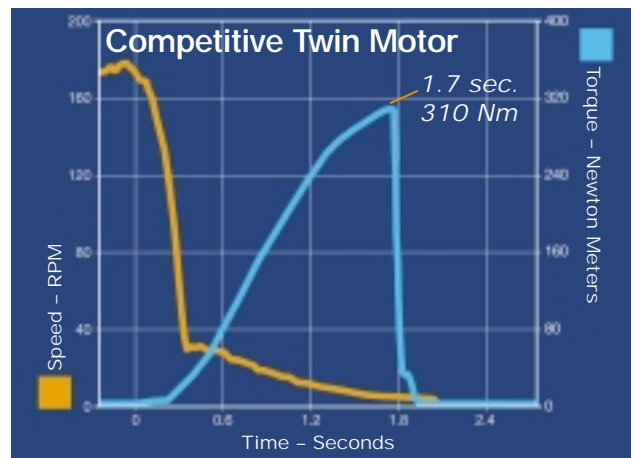
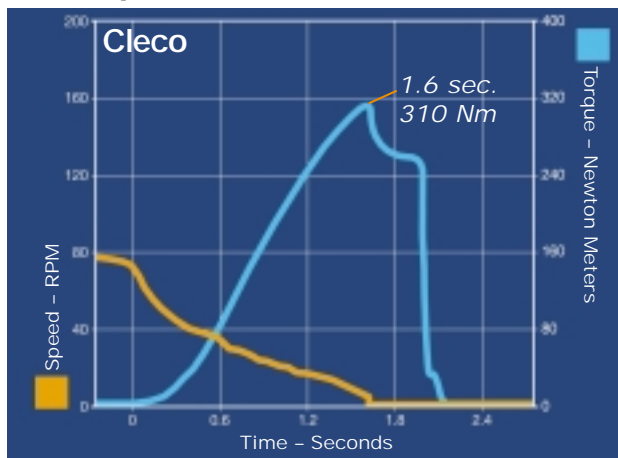
Speed and Torque Tests for the New Cleco 64 Series Swingbar Nutrunners

The goal of any fastening application is to maintain a high degree of accuracy while minimizing the length of time required to perform the rundown. The new Cleco 64 Series Swingbar Nutrunners utilize a single powerful motor that limits speed shifts and offers a fast and accurate rundown regardless of joint type.

Competitive units with high RPM's quickly drop their speed at threshold resulting in an overall longer rundown period. This gap is multiplied when prevailing torque is present.

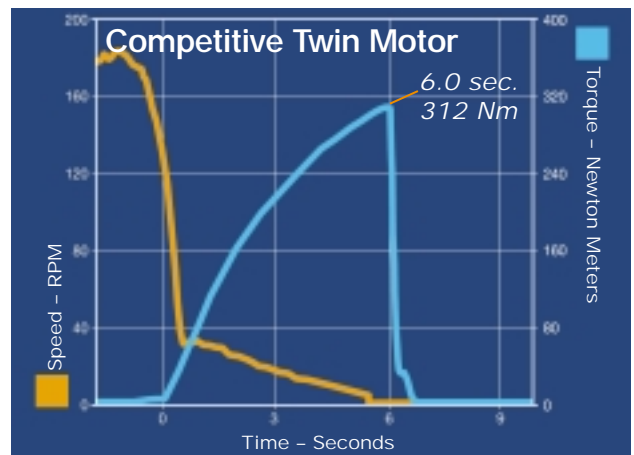
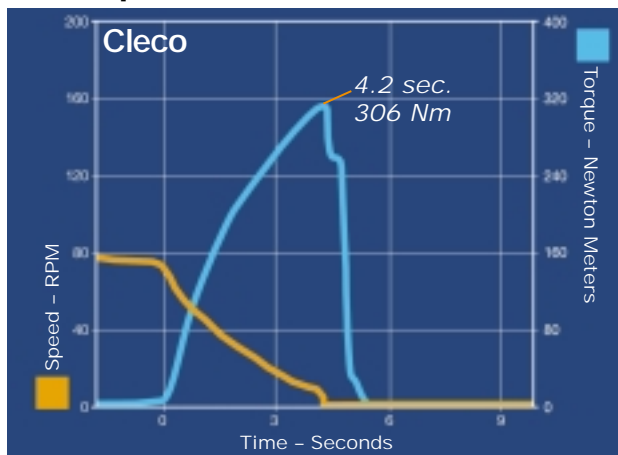
To read the graphs below, the orange line represents the tool speed while the blue line represents the torque generated throughout a rundown. Notice the correlation between speed and torque and its overall effect on rundown time.

Random Comparison on 120° Joint



Although the free speed of the Cleco tool is slower, tightening speed is faster which in this application results in almost equal overall times.

Random Comparison on 720° Joint



Again the free speed of the Cleco tool is slower, however with its faster tightening speed the overall time is almost 2 seconds faster.

Cleco 64 Series Swingbar Nutrunner Specifications

| Model Number | Drive Size | Bolt Size | | Speed RPM | Torque Range | | Length | | Weight* | |
|--|------------|-----------|-----|-----------|--------------|----------|--------|--------|---------|------|
| | | in. | mm | | Nm | ft.-lbs. | in. | mm | lbs. | kg |
| Swing Bar - Reversible - Stall Torque | | | | | | | | | | |
| 64TTS34D4 | 1/2" | 3/8" | M8 | 725 | 34 | 25 | 11.45 | 290.83 | 6.12 | 2.78 |
| 64TTS44D4 | 1/2" | 7/16" | M8 | 570 | 44 | 32 | 11.45 | 290.83 | 6.12 | 2.78 |
| 64TTS55D4 | 1/2" | 7/16" | M10 | 445 | 55 | 41 | 11.45 | 290.83 | 6.12 | 2.78 |
| 64TTS75D4 | 1/2" | 1/2" | M12 | 340 | 75 | 55 | 11.45 | 290.83 | 6.12 | 2.78 |
| 64TTS90D4 | 1/2" | 1/2" | M12 | 270 | 90 | 66 | 11.45 | 290.83 | 6.12 | 2.78 |
| 64TTS110D4 | 1/2" | 9/16" | M12 | 225 | 110 | 81 | 11.45 | 290.83 | 6.12 | 2.78 |
| 64TTS125D4 | 1/2" | 9/16" | M12 | 200 | 125 | 92 | 11.45 | 290.83 | 6.12 | 2.78 |
| 64TTS140D4 | 1/2" | 5/8" | M14 | 180 | 140 | 103 | 11.45 | 290.83 | 6.12 | 2.78 |
| 64TTS150D6 | 3/4" | 5/8" | M14 | 160 | 150 | 111 | 12.45 | 316.23 | 8.00 | 3.63 |
| 64TTS175D6 | 3/4" | 5/8" | M14 | 135 | 175 | 129 | 12.45 | 316.23 | 8.00 | 3.63 |
| 64TTS205D6 | 3/4" | 5/8" | M16 | 115 | 205 | 151 | 12.45 | 316.23 | 8.00 | 3.63 |
| 64TTS255D6 | 3/4" | 3/4" | M16 | 95 | 255 | 188 | 12.45 | 316.23 | 8.00 | 3.63 |
| 64TTS345D6 | 3/4" | 3/4" | M20 | 70 | 345 | 254 | 12.45 | 316.23 | 8.00 | 3.63 |
| 64TTS425D6 | 3/4" | 7/8" | M20 | 55 | 425 | 313 | 12.45 | 316.23 | 8.00 | 3.63 |
| 64TTS570D6 | 3/4" | 1" | M22 | 42 | 570 | 420 | 12.95 | 328.93 | 8.38 | 3.80 |
| 64TTS640D8 | 1" | 1 1/8" | M22 | 32 | 640 | 472 | 15.91 | 404.11 | 14.30 | 6.49 |
| 64TTS750D8 | 1" | 1 1/8" | M24 | 27 | 750 | 553 | 15.91 | 404.11 | 14.30 | 6.49 |
| 64TTS930D8 | 1" | 1 1/4" | M27 | 22 | 930 | 686 | 15.91 | 404.11 | 14.30 | 6.49 |
| 64TTS1260D8 | 1" | 1 3/8" | M27 | 16 | 1260 | 929 | 15.91 | 404.11 | 14.30 | 6.49 |
| 64TTS1475D8 | 1" | 1 1/2" | M30 | 14 | 1475 | 1088 | 15.91 | 404.11 | 14.30 | 6.49 |
| 64TTS1820D8 | 1" | 1 3/4" | M33 | 11 | 1820 | 1342 | 15.91 | 404.11 | 14.30 | 6.49 |
| 64TTS1985D8 | 1" | 1 3/4" | M33 | 10 | 1985 | 1464 | 15.91 | 404.11 | 14.30 | 6.49 |

* Weight without reaction bar.



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Cooper Tools
 P.O. Box 1410
 Lexington, SC 29071-1410
 USA
 Phone: 803-359-1200
 Fax: 803-808-6735
 www.clecotools.com

Cooper Power Tools GmbH & Co.
 Postfach 30
 D-73461 Westhausen
 Germany
 Phone: (49)7363-810
 Fax: (49)7363-81222
 www.coopertools.com