

Swingbar Nutrunners

Cleco®

Smaller, Faster, Lighter

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 Cleco 64 Series provides the best solution for today's heavy assembly environment.

Benefits of a Swingbar Tool

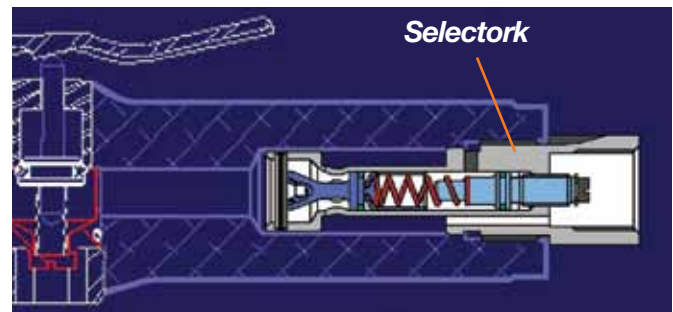
A swingbar tool includes a reaction bar that freely swings 360°. This allows the reaction bar to be moved to an appropriate bracing point without any disassembly or repositioning of a spline. Once positioned, the reaction bar absorbs the reaction forces of the tool.

Selectork

Output torque from a stall tool is achieved by adjusting the air pressure to the tool. If the tool is

moved from location to location or if other tools requiring full line pressure use the same air line, the tool will require a dedicated air pressure regulator.

The Cleco Selectork feature in the 64 Series tools is a small pressure regulator that takes the place of the standard air inlet bushing and eliminates the need to have a separate pressure regulator installed in the plant floor system. Because of the small size of the Selectork there is a limited pressure adjustment range of from 60 to 90 psi. To order this option on the Cleco 64TTS Swingbar tools replace the "S" in the model number with a "K" (64TTS...to a 64TTK...).



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 Reaction Bar Nutrunners to the operator's work area.

Improved Ergonomics

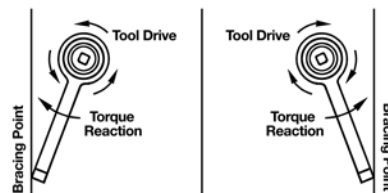
Comfort molded handles and lighter weights reduce operator fatigue and improve productivity

Selectork

for optimal in-tool air pressure regulation.

Ergonomics

Infinite-position reaction bar can quickly be moved to an appropriate brace point, eliminating reaction forces of the rundown.



Torque Bar Opposes Rotation of Tool



Speed and Torque Tests for the Cleco 64 Series Swingbar Nutrunners

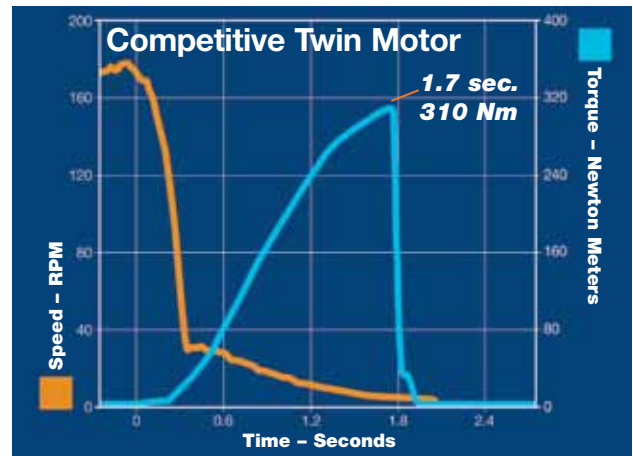
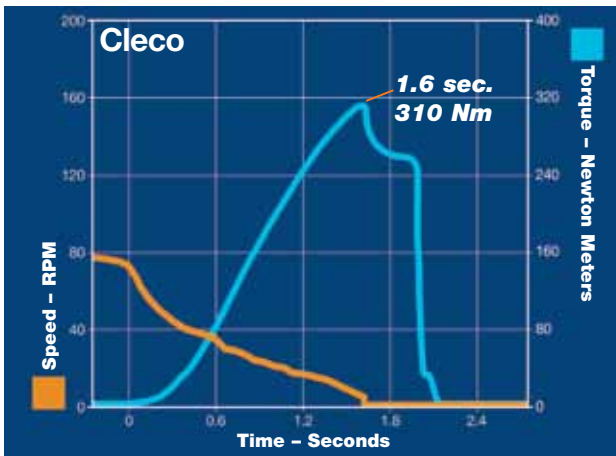
The goal of any fastening application is to maintain a high degree of accuracy while minimizing the length of time required to perform the rundown. The Cleco 64 Series Swingbar Nutrunners utilize a single powerful motor that limits speed shifts and offers a fast and accurate rundown regardless of joint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

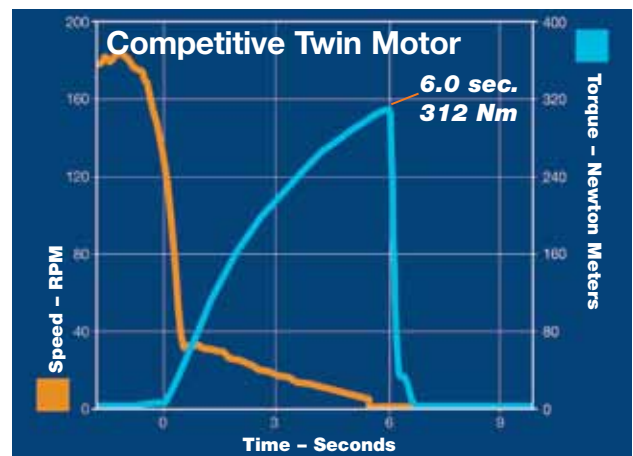
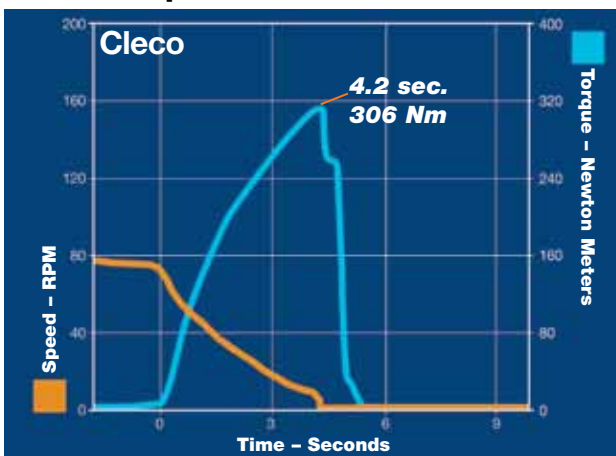
To read the graphs below, the orange line represents the tool speed while the blue line represents the torque generated throughout a rundown. Notice the correlation between speed and torque and its overall effect on rundown time.

The swingbar can instantly be positioned to absorb the torque reaction of the tool while maintaining a comfortable position with the trigger hand.

Random Comparison on 120° Joint



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.

Reaction Bar & Swingbar Nutrunners

Cleco®

45 Series Inline

Torque Range:
14 - 62 Nm 10 - 46 Ft. Lbs.

- Button start
- Twist ring reverse



55 Series Inline

Torque Range:
27 - 91 Nm 20 - 67 Ft. Lbs.

- Lever start
- Twist ring reverse



64 Series Pistol

Torque Range:
34 - 3850 Nm 25 - 2837 Ft. Lbs.

- Trigger start
- Sliding knob reverse
- Swingbar



Selectork 64 Series

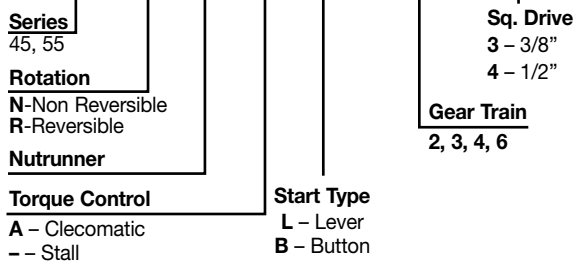
Torque Range:
26 - 3850 Nm 19 - 2837 Ft. Lbs.

- Pistol grip
- Reversible
- Swingbar
- Selectork adjustment allows air pressure regulation at the tool for individual performance from a common air line



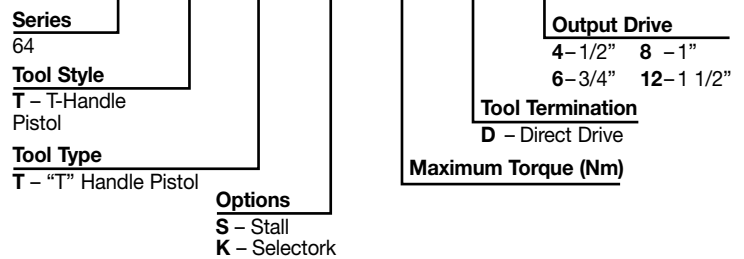
45 & 55 Model Number Example

55 R N A L - X - X



64 Model Number Example

64 T T S XX D X



Model Number	Torque Range		Drive Size	Free Speed RPM	Length		Weight*		Air Consumption			
	ft.-lbs.	Nm			in.	mm	lbs.	kg	Air Inlet NPT	Min. Hose I.D.	SCFM	
45 Series – Inline – Clecomatic – Button Start – Twist Ring Reverse												
45RNAB-6-3	10 - 16	14 - 22	3/8	740	14.5	368	5.4	2.4	3/8"	3/8"	33	
45RNAB-4-3	14 - 22	19 - 30	3/8	560	14.5	368	5.4	2.4	3/8"	3/8"	33	
45RNAB-3-3	18 - 33	24 - 45	3/8	370	14.5	368	5.4	2.4	3/8"	3/8"	33	
45RNAB-2-4	23 - 46	31 - 62	1/2	270	14.5	368	5.4	2.4	3/8"	3/8"	33	
55 Series – Inline – Clecomatic – Lever Start – Twist Ring Reverse												
55RNAL-4-4	20 - 34	27 - 46	1/2	560	16.1	410	6.5	3.0	1/2"	1/2"	55	
55RNAL-3-4	25 - 51	34 - 69	1/2	370	16.1	410	6.5	3.0	1/2"	1/2"	55	
55RNAL-2-4	30 - 67	46 - 91	1/2	270	16.1	410	6.5	3.0	1/2"	1/2"	55	

* Weight without reaction bar.

General:

Tool performance rated at 90 psi (620kPa) air pressure

Standard Equipment:

Operating instructions & service manual
Aluminum Torque Reaction Bar

Optional Equipment:

Steel Torque Reaction Bar: 869770
Additional accessories: Page 36

Model Number		Torque Range		Drive Size	Free Speed RPM	Length		Weight*		Air Consumption		
Non-Selectork	Selectork	ft.-lbs.	Nm			in.	mm	lbs.	kg	Air Inlet NPT	Min. Hose I.D.	SCFM
Pistol – Trigger Start – Reversible												
64TTS34D4	64TTK34D4	19 - 25	26 - 34	1/2"	725	11.5	290.8	6.3	2.9	3/8"	1/2"	60
64TTS44D4	64TTK44D4	24 - 32	33 - 44	1/2"	570	11.5	290.8	6.3	2.9	3/8"	1/2"	60
64TTS55D4	64TTK55D4	30 - 41	41 - 55	1/2"	445	11.5	290.8	6.3	2.9	3/8"	1/2"	60
64TTS75D4	64TTK75D4	41 - 55	56 - 75	1/2"	340	11.5	290.8	6.3	2.9	3/8"	1/2"	60
64TTS90D4	64TTK90D4	50 - 66	68 - 90	1/2"	270	11.5	290.8	6.3	2.9	3/8"	1/2"	60
64TTS110D4	64TTK110D4	61 - 81	83 - 110	1/2"	225	11.5	290.8	6.3	2.9	3/8"	1/2"	60
64TTS125D4	64TTK125D4	69 - 92	94 - 125	1/2"	200	11.5	290.8	6.3	2.9	3/8"	1/2"	60
64TTS140D4	64TTK140D4	77 - 103	105 - 140	1/2"	180	11.5	290.8	6.3	2.9	3/8"	1/2"	60
64TTS150D6	64TTK150D6	83 - 111	113 - 150	3/4"	160	12.5	316.2	8.2	3.7	3/8"	1/2"	60
64TTS175D6	64TTK175D6	97 - 129	131 - 175	3/4"	135	12.5	316.2	8.2	3.7	3/8"	1/2"	60
64TTS205D6	64TTK205D6	113 - 151	154 - 205	3/4"	115	12.5	316.2	8.2	3.7	3/8"	1/2"	60
64TTS255D6	64TTK255D6	141 - 188	191 - 255	3/4"	95	12.5	316.2	8.2	3.7	3/8"	1/2"	60
64TTS345D6	64TTK345D6	191 - 254	259 - 345	3/4"	70	12.5	316.2	8.2	3.7	3/8"	1/2"	60
64TTS425D6	64TTK425D6	235 - 313	319 - 425	3/4"	55	12.5	316.2	8.2	3.7	3/8"	1/2"	60
64TTS570D6	64TTK570D6	315 - 420	428 - 570	3/4"	42	13.0	328.9	8.6	3.9	3/8"	1/2"	60
64TTS640D8	64TTK640D8	354 - 472	480 - 640	1"	32	15.9	404.1	14.5	6.6	3/8"	1/2"	60
64TTS750D8	64TTK750D8	415 - 553	563 - 750	1"	27	15.9	404.1	14.5	6.6	3/8"	1/2"	60
64TTS930D8	64TTK930D8	514 - 686	698 - 930	1"	22	15.9	404.1	14.5	6.6	3/8"	1/2"	60
64TTS1260D8	64TTK1260D8	697 - 929	945 - 1260	1"	16	15.9	404.1	14.5	6.6	3/8"	1/2"	60
64TTS1475D8	64TTK1475D8	816 - 1088	1106 - 1475	1"	14	15.9	404.1	14.5	6.6	3/8"	1/2"	60
64TTS1820D8	64TTK1820D8	1007 - 1342	1365 - 1820	1"	11	15.9	404.1	14.5	6.6	3/8"	1/2"	60
64TTS1985D8	64TTK1985D8	1098 - 1464	1489 - 1985	1"	10	15.9	404.1	14.5	6.6	3/8"	1/2"	60
64TTS3850D12	64TTK3850D12	2128 - 2837	2888 - 3850	1 1/2"	5	21.5	546.1	32.2	14.6	3/8"	1/2"	60

* Weight without reaction bar.

General:

Tool performance rated at 90 psi (620kPa) air pressure.

Standard Equipment:

Operating instructions & service manual
Aluminum Torque Reaction Bar
Steel Torque Reaction Bar (tools rated above 50 ft. lbs.)
Slave Square Drive (64TTS3850D12 & 64TTK3850D12)

Optional Equipment:

Steel Torque Reaction Bar: 64.....D4 series: 48047128
Additional accessories: Page 36