

Cleco®

Selecting Your Cleco Nutrunner

Cleco offers over 500 nutrunners, most of which can be equipped with a wide variety of drive options. This generates over 3,000 different nutrunner combinations, allowing the exact tool with precise features to be chosen for specific job applications.

The following items should be considered before selecting the tool: ergonomic factors associated with the man/tool/task relationship, torque and speed requirements, tool and fastener accessibility, fastener joint variations, operator skill level and air supply.

Tool performance can be affected by air supply. Plant air line pressure to the tool will vary widely due to several factors: distance of tool from compressor; size of transmission lines, air drops, manifolds, hose length and diameter, and fittings. All power tool specifications are based on the tool receiving air at 90 p.s.i.g. (6.2 bar) with adequate air flow volume while the tool is running.

Clean Operation

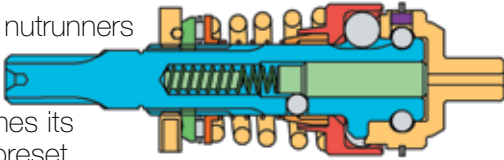
Many Cleco angle nutrunners are equipped with oilless blades. This is a very important feature where a clean assembly operation is critical.



Angle Nutrunners

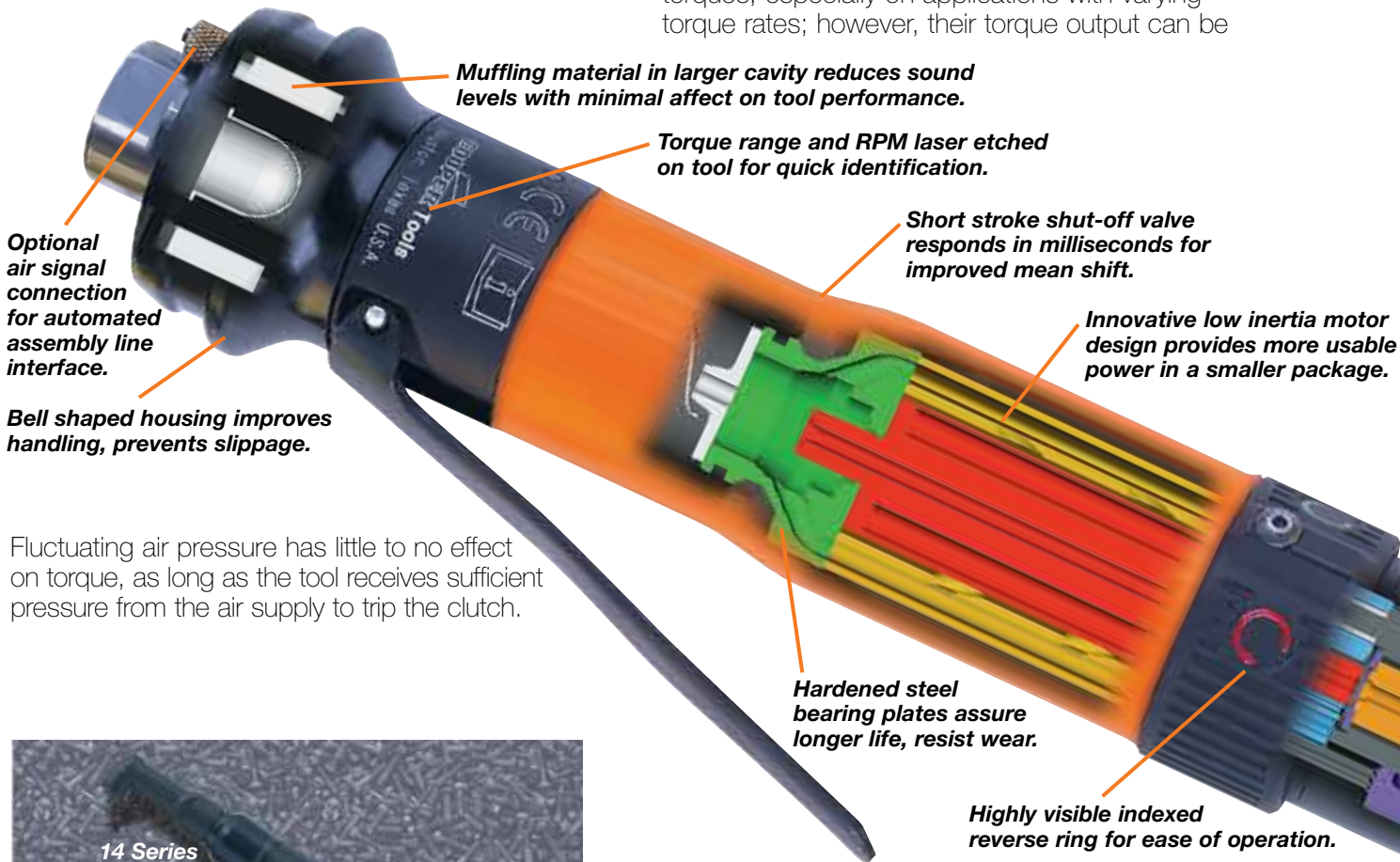
Clecomatic Nutrunners

Clecomatic nutrunners shut off the instant the clutch reaches its adjustable preset torque. This action provides an accurate method of controlling torque without sacrificing tool speed.



Stall Nutrunners

Stall-type nutrunners consist of an air motor connected to the output spindle by planetary gearing and angle heads. In operation, the tool runs down the fastener until the torque resistance in the fastener causes the tool to stall. When the tool stalls, the throttle is released by the operator and the tool is removed. Stall-type tools can produce accurate torques, especially on applications with varying torque rates; however, their torque output can be



Fluctuating air pressure has little to no effect on torque, as long as the tool receives sufficient pressure from the air supply to trip the clutch.



easily influenced by the operator and by fluctuations in the air line pressure. Operators should be instructed to allow the tool to stall before releasing the throttle and to avoid pulling or wrenching the tool after it stalls.

The Cleco Right Angle Solution

The Cleco 14, 24 and 34 series pneumatic nutrunners are the most recent additions to our line of smaller, lighter and faster tools. These powerful right angle clutch tools cover a wide torque range from .5 to 68 NM. We continue to drive our line into the best power to weight ratio of any other tool in the market, in a relentless effort to offer the most performance, the highest level of accuracy and the greatest flexibility in its class of pneumatic tools.

We also design our tools to offer you reduced energy costs, longer operating life, fewer replacement parts and lower service costs.

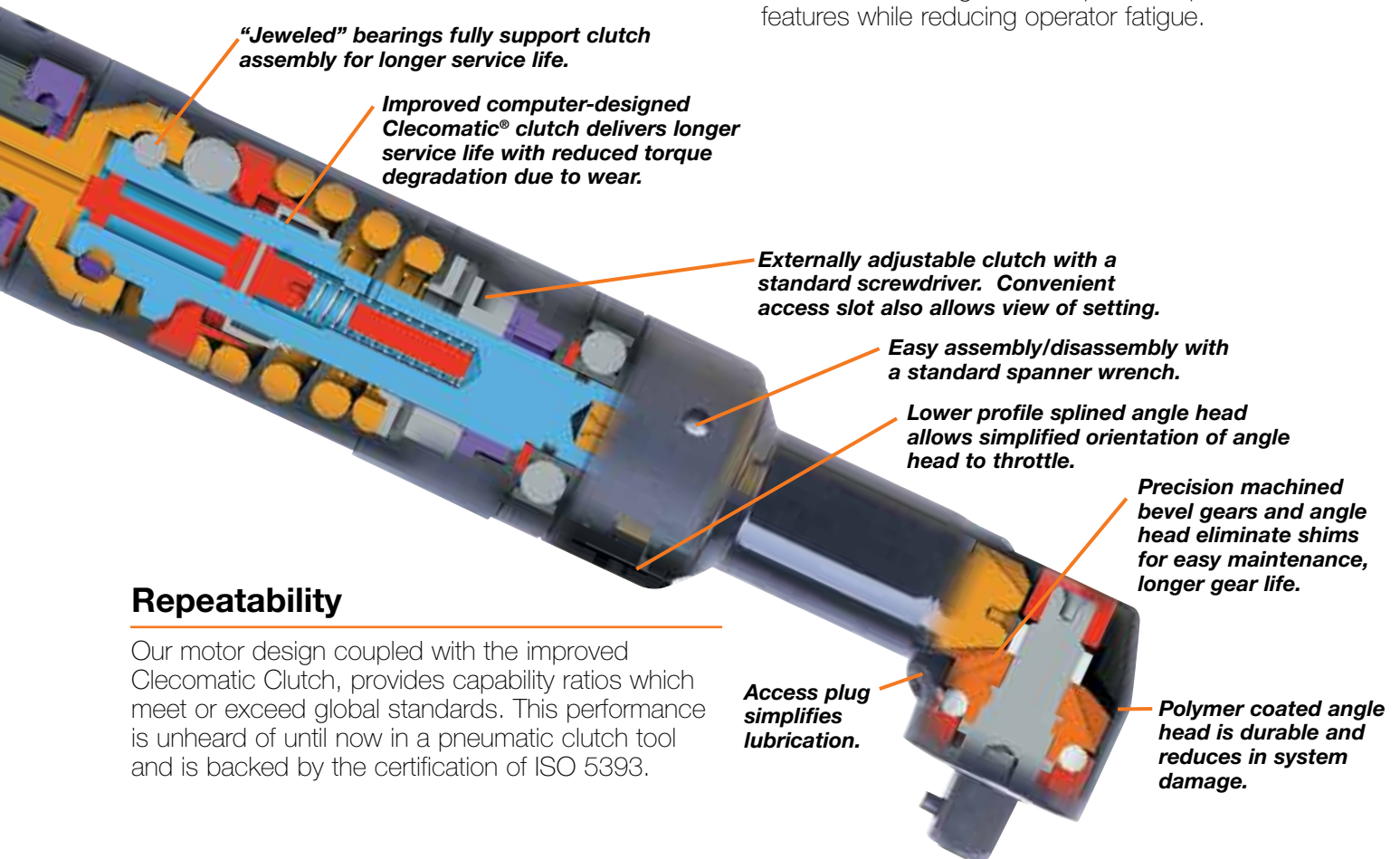
Performance

The Cleco 24 and 34 series right angle nutrunners incorporate an innovative motor design that provides more usable power in a smaller package. This design contributes greatly to our smaller, lighter, faster goals and provides the highest power to weight ratio in its class to date.



Flexibility

Cleco nutrunners come with an externally adjusted and indicated clutch and offer improved ergonomics with a very comfortable handle area. The polymer coated angle heads on the 24 and 34 series reduce in-system damage. These durable heads are splined to allow indexing for better position. The operator will appreciate a quieter tool thanks to the composite exhaust deflector which also allows the exhaust to be efficiently piped away for even further reduced noise levels. These noted improvements are geared towards enhancing the tools positive operational features while reducing operator fatigue.



“Jeweled” bearings fully support clutch assembly for longer service life.

Improved computer-designed Clecomatic® clutch delivers longer service life with reduced torque degradation due to wear.

Externally adjustable clutch with a standard screwdriver. Convenient access slot also allows view of setting.

Easy assembly/disassembly with a standard spanner wrench.

Lower profile splined angle head allows simplified orientation of angle head to throttle.

Precision machined bevel gears and angle head eliminate shims for easy maintenance, longer gear life.

Access plug simplifies lubrication.

Polymer coated angle head is durable and reduces in system damage.

Repeatability

Our motor design coupled with the improved Clecomatic Clutch, provides capability ratios which meet or exceed global standards. This performance is unheard of until now in a pneumatic clutch tool and is backed by the certification of ISO 5393.

Angle Nutrunners

14, 24 & 34 Series Clecomatic Clutch

Cleco®

14 Series

Torque Range:

0.5 – 11 Nm 4.0 – 100 In. Lbs.

- External torque adjustment
- Sliding knob reverse
- 1/4" & 3/8" square drive

24 Series

Torque Range:

4.0 – 23 Nm 3.0 – 17 Ft. Lbs.

- External torque adjustment
- 3/8" square drive
- Indexable anglehead
- One torque spring to meet specified torque
- Oilless blades 🔥

34 Series

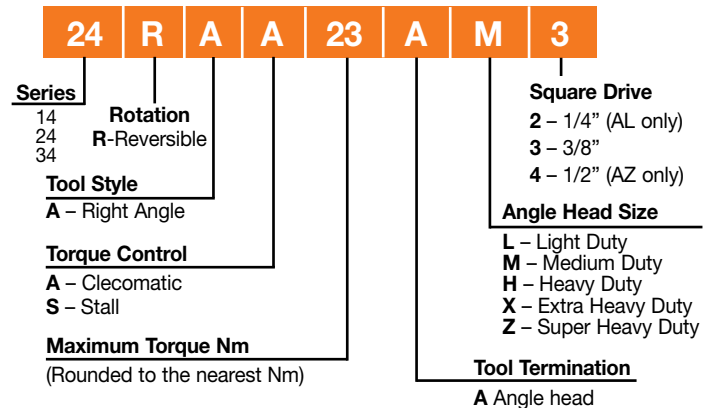
Torque Range:

8.0 – 75 Nm 4.0 – 55 Ft. Lbs.

- External torque adjustment
- 3/8" and 1/2" square drive
- Indexable anglehead
- One torque spring to meet specified torque
- Oilless blades 🔥



Model Number Example



Model Number		Torque Range*		Free Speed	Length		Weight		Head Height		Side to Center		Air Consumption		
3/8" Sq. Dr.	1/2" Sq. Dr.	ft.-lbs.	Nm	RPM	in.	mm	lbs.	kg	in.	mm	in.	mm	Air Inlet NPT	Min. Hose I.D.	SCFM
14 Series - Reversible – Clecomatic Clutch															
14RAA02AM2		4 - 19	.5 - 2.1	2400	11.68	297	1.7	0.77	1.06	27	0.36	9	1/8"	3/16"	11
14RAA02AH2	14RAA02AH3	4 - 21	.5 - 2.4	2100	12.11	308	1.8	0.82	1.19	30	0.50	13	1/8"	3/16"	11
14RAA03AL2		4 - 25	.5 - 2.8	570	12.04	306	1.8	0.82	0.94	24	0.31	8	1/8"	3/16"	11
14RAA03AM2		4 - 27	.5 - 3.0	1650	11.88	302	1.8	0.82	1.06	27	0.36	9	1/8"	3/16"	11
14RAA03AH2	14RAA03AH3	4 - 30	.5 - 3.4	1450	12.31	313	1.9	0.86	1.19	30	0.50	13	1/8"	3/16"	11
14RAA04AM2		4 - 43	.5 - 4.8	950	11.68	297	1.7	0.77	1.06	27	0.36	9	1/8"	3/16"	11
14RAA05AM2		4 - 50	.5 - 5.7	570	12.08	307	1.8	0.82	1.06	27	0.36	9	1/8"	3/16"	11
14RAA06AH2*	14RAA06AH3	4 - 53	.5 - 6.0	850	12.11	308	1.8	0.82	1.19	30	0.50	13	1/8"	3/16"	11
14RAA07AH2*	14RAA07AH3	4 - 60	.5 - 6.8	500	12.51	318	1.9	0.86	1.19	30	0.50	13	1/8"	3/16"	11
14RAA09AH2*	14RAA09AH3	10 - 75	1.1 - 8.5	500	13.39	340	2.1	0.95	1.19	30	0.50	13	1/8"	3/16"	11
14RAA11AH2*	14RAA11AH3	10 - 100	1.1 - 11	340	13.59	345	2.2	1.00	1.19	30	0.50	13	1/8"	3/16"	11
14RAA12AH2*	14RAA12AH3	10 - 100	1.1 - 11	200	13.39	340	2.1	0.95	1.19	30	0.50	13	1/8"	3/16"	11

*AH2 head max torque 50 in. lbs.

General:

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

Standard Equipment:

Operating instructions & service manual.
Suspension bail.

All torque springs required to meet indicated torque specification.

Optional Equipment:

Additional accessories: Page 44
Non-Reverse Kit: 207030
Torque Signal Kit: 301106 (Clecomatic clutch only)
Overhose: 207019

Quick Change and 1/4" magnetic hex outputs available on AH3 models only.
Quick Change: Change AH3 to AHQ
1/4" Magnetic Hex: Change AH3 to AHM

Model Number		Torque Range		Free Speed	Length		Weight		Head Height		Side to Center		Air Consumption		
3/8" Sq. Dr.	1/2" Sq. Dr.	ft.-lbs.	Nm	RPM	in.	mm	lbs.	kg	in.	mm	in.	mm	Air Inlet NPT	Min. Hose I.D.	SCFM
24 Series – Reversible – Clecomatic Clutch															
24RAA06AL3		3-4	4-5.5	2200	14.1	358	2.6	1.2	1.08	27.5	.47	12.0	3/8"	5/16"	24
24RAA07AL3		3-5	5-7	1770	14.1	358	2.6	1.2	1.08	27.5	.47	12.0	3/8"	5/16"	24
24RAA11AL3		5-8	7-11	1260	14.1	358	2.6	1.2	1.08	27.5	.47	12.0	3/8"	5/16"	24
24RAA12AM3		5-9	6-12	1200	14.2	360	2.8	1.3	1.16	29.5	.52	13.2	3/8"	5/16"	24
24RAA19AM3		7-14	10-19	700	15.0	380	3.2	1.4	1.16	29.5	.52	13.2	3/8"	5/16"	24
24RAA23AM3		9-17	12-23	600	15.0	380	3.2	1.4	1.16	29.5	.52	13.2	3/8"	5/16"	24
34 Series – Reversible – Clecomatic Clutch															
34RAA08AL3		4-6	8-5	2060	14.5	368	2.7	1.2	1.08	27.5	.47	12.0	3/8"	5/16"	34
34RAA11AL3		5-8	7-11	1675	14.5	368	2.7	1.2	1.08	27.5	.47	12.0	3/8"	5/16"	34
34RAA15AM3		7-11	9-15	1185	14.6	370	2.9	1.3	1.16	29.5	.52	13.2	3/8"	5/16"	34
34RAA26AH3		10-19	13-26	710	15.4	390	3.2	1.5	1.22	31.0	.57	14.4	3/8"	5/16"	34
34RAA28AH3		10-20	14-28	580	15.4	390	3.3	1.5	1.22	31.0	.57	14.4	3/8"	5/16"	34
34RAA33AX3		12-24	17-33	545	15.5	393	3.5	1.6	1.36	34.5	.67	17.1	3/8"	5/16"	34
34RAA37AX3		14-27	18-37	480	15.6	397	3.4	1.5	1.36	34.5	.67	17.1	3/8"	5/16"	34
34RAA47AX3		17-35	24-47	385	15.6	397	3.4	1.5	1.36	34.5	.67	17.1	3/8"	5/16"	34
34RAA68AZ3		25-50	34-68	255	16.2	411	3.7	1.7	1.60	41.0	.70	18.0	3/8"	5/16"	34
34RAA75AZ3		28-55	38-75	155	17.0	431	3.9	1.8	1.60	41.0	.70	18.0	3/8"	5/16"	34
	34RAA68AZ4	25-50	34-68	255	16.2	411	3.7	1.7	1.60	41.0	.70	18.0	3/8"	5/16"	34
	34RAA75AZ4	28-55	38-75	155	17.0	431	3.9	1.8	1.60	41.0	.70	18.0	3/8"	5/16"	34

General:

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

Standard Equipment:

Operating instructions & service manual
Suspension bail
Clutch adjustment tool

Optional Equipment:

Assembly wrench: 201898
Torque signal kit: 301937PT
Non-reversible kit: 204999
Exhaust Overhose: 204978
Additional accessories: Page 44

Angle Nutrunners

45, 55 & 75 Series Clecomatic Clutch

Cleco®

45 Series

Torque Range:
28 – 115 Nm 21 – 85 Ft. Lbs.

- Button start
- Reversible & non-reversible
- External torque adjustment
- 1/2" square drive

55 Series

Torque Range:
32 – 176 Nm 24 – 130 Ft. Lbs.

- Lever start
- Reversible & non-reversible
- External torque adjustment
- Rotating exhaust deflector
- 1/2" square drive

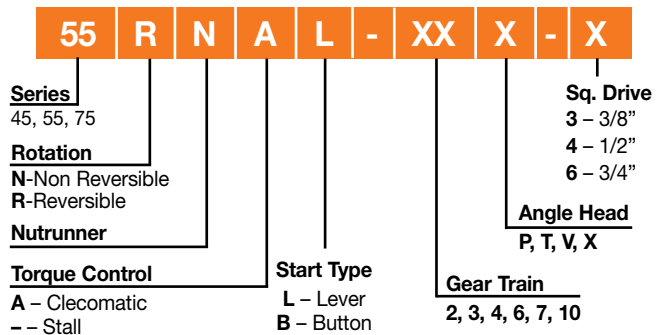
75 Series

Torque Range:
95 – 430 Nm 70 – 320 Ft. Lbs.

- Lever start
- Reversible & non-reversible
- External torque adjustment
- Rotating exhaust deflector
- 1/2" & 3/4" square drive



45, 55 & 75 Model Number Example



Model Number	Torque Range		Free Speed	Length		Weight		Head Height		Side to Center		Angle Head	Air Consumption			
	1/2" Sq. Dr.	ft.-lbs.		Nm	RPM	in.	mm	lbs.	kg	in.	mm		in.	mm	Air Inlet NPT	Min. Hose I.D.
45 Series – Clecomatic Clutch – Button Start – Reversible																
45RNAB-4T-4		21 - 42	28 - 57	300	17.6	448	6.8	3.1	2.0	50	0.9	22	T	3/8"	3/8"	33
45RNAB-3P-4		26 - 52	35 - 71	240	17.5	445	6.4	2.9	1.6	41	0.7	18	P	3/8"	3/8"	33
45RNAB-3T-4		31 - 62	42 - 84	200	17.6	448	6.8	3.1	2.0	50	0.9	22	T	3/8"	3/8"	33
45RNAB-2P-4		34 - 71*	46 - 96*	180	17.5	445	6.4	2.9	1.6	41	0.7	18	P	3/8"	3/8"	33
45RNAB-2T-4		37 - 85	50 - 115	150	17.6	448	6.8	3.1	2.0	50	0.9	22	T	3/8"	3/8"	33
45 Series Clecomatic Clutch – Button Start – Non-Reversible																
45NAB-3P-4		28 - 57	38 - 77	300	17.5	445	6.3	2.8	1.6	41	0.7	18	P	3/8"	3/8"	33

* Maximum torque of tool exceeds the maximum torque rating for the head, high maintenance should be expected when operated at the upper torque capacity range.

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

Standard Equipment:
Operating instructions & service manual.
All torque springs required to meet indicated torque

Optional Equipment:
Additional accessories: Page 44

Model Number	Torque Range		Free Speed	Length		Weight		Head Height		Side to Center		Angle Head	Air Consumption			
	1/2" Sq. Dr.	3/4" Sq. Dr.		ft.-lbs.	Nm	RPM	in.	mm	lbs.	kg	in.		mm	in.	mm	Air Inlet NPT
55 & 75 Series – Lever Start – Reversible																
55RNAL-6T-4		24 - 48	32 - 65	370	19.3	489	7.8	3.5	2.0	50	0.9	22	T	1/2"	1/2"	55
55RNAL-4P-4		26 - 54	35 - 73	330	19.1	486	7.4	3.3	1.6	41	0.7	18	P	1/2"	1/2"	55
55RNAL-4T-4		29 - 64	39 - 87	280	19.3	489	7.8	3.5	2.0	50	0.9	22	T	1/2"	1/2"	55
55RNAL-3P-4		36 - 80*	49 - 109*	220	19.1	486	7.4	3.3	1.6	41	0.7	18	P	1/2"	1/2"	55
55RNAL-3T-4		43 - 95	58 - 129	190	19.3	489	7.8	3.5	2.0	50	0.9	22	T	1/2"	1/2"	55
55RNAL-2T-4		50 - 125*	81 - 170*	140	19.3	489	7.8	3.5	2.0	50	0.9	22	T	1/2"	1/2"	55
75RNAL-3V-4		70 - 140	95 - 190	175	21.9	556	13.3	6.0	2.5	64	1.1	28	V	1/2"	1/2"	70
75RNAL-2V-4		90 - 190*	122 - 255*	130	21.9	556	13.3	6.0	2.5	64	1.1	28	V	1/2"	1/2"	70
	75RNAL-3X-6	110 - 225	150 - 305	110	22.6	575	15.0	6.8	2.8	70	1.4	37	X	1/2"	1/2"	70
	75RNAL-2X-6	150 - 305	203 - 410	80	22.6	575	15.0	6.8	2.8	70	1.4	37	X	1/2"	1/2"	70
55 & 75 Series – Lever Start – Non-Reversible																
55NAL-4P-4		28 - 57	38 - 77	480	19.1	486	7.3	3.3	1.6	41	72.0	18	P	1/2"	1/2"	55
55NAL-4T-4		33 - 69	39 - 93	400	19.3	489	7.6	3.5	2.0	50	0.9	22	T	1/2"	1/2"	55
55NAL-3P-4		39 - 84*	49 - 114*	320	19.1	486	7.3	3.3	1.6	41	72.0	18	P	1/2"	1/2"	55
55NAL-3T-4		45 - 100	58 - 136	270	19.3	489	7.6	3.5	2.0	50	0.9	22	T	1/2"	1/2"	55
55NAL-2T-4		55 - 130*	68 - 176*	200	19.3	489	7.6	3.5	2.0	50	0.9	22	T	1/2"	1/2"	55
75NAL-2V-4		100 - 200	135 - 271	210	21.9	556	13.0	5.9	2.5	64	1.1	28	V	1/2"	1/2"	70
	75NAL-2X-6	160 - 320	215 - 430	130	22.6	575	14.8	6.7	2.8	70	1.4	37	X	1/2"	1/2"	70

* Maximum torque of tool exceeds the maximum torque rating for the head, high maintenance should be expected when operated at the upper torque capacity range.

Standard Equipment:
Operating instructions & service manual
Torque Reaction Mounting Plate (75 series)
All torque springs required to meet indicated torque

Optional Equipment:
Additional accessories: Page 44

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

Angle Nutrunners

14, 24, 34, 45, 55 & 75 Series Stall – Reversible & Non-Reversible

Cleco®

14 Series Reversible

Torque Range:

3.2 – 6.2 Nm 2.3 – 4.6 Ft. Lbs.

- Lever start
- Sliding knob reverse

24 Series Reversible

Torque Range:

13 Nm 9.6 Ft. Lbs.

- Lever start
- Twist ring reverse

34 Series Reversible

Torque Range:

11 - 36 Nm 8.1 - 26 Ft. Lbs.

- Lever start
- Twist ring reverse

45 Series Reversible

Torque Range:

62 - 125 Nm 46 - 92 Ft. Lbs.

- Button start
- Twist ring reverse

55 Series Reversible & Non-Reversible

Torque Range:

56 - 203 Nm 41 - 150 Ft. Lbs.

- Lever start
- Reversible & non-reversible

75 Series Reversible & Non-Reversible

Torque Range:

210 - 475 Nm 155 - 350 Ft. Lbs.

- Lever start
- Reversible & non-reversible

