

Cleco®



Durable Production Performance

For Safety Critical Joints

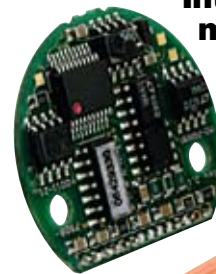
 **COOPER** Power Tools

Durability. Speed. E

Cleco 18-48 series tools are driven by a new maintenance-free brushless motor with up to 50% more speed and productivity. This new motor technology coupled with our high-resolution resolver offers full range control for safety critical joints. The 18-48 series tools with industry proven gear trains create outstanding durable production performance.

The Cleco 18-48 series electric tools provide a unique modular assembly design for ease of repair. The on-board intelligent memory chip records tool set-up values and counts cycles for maintenance scheduling to prevent costly production downtime.

Intelligent memory chip



Highly visible operator feedback LEDs

New low compression switch

Error free connector



Matrix



Resolver technology for full range speed control



New handle for operator comfort



Ergonomics.

Optimal tool weight and balance

Durable industry proven gear train

Reaction transducer for consistent torque repeatability

Adjustable angle head allows flexible orientation

New low inertia brushless motor for superior fastening control



Standard tools required for service

Cleco®

Cleco 18 & 48 Series

Pistol Series

Torque Range
 2 - 150 Nm
 1.5 - 113 Ft. Lbs.
Bolt Size
 M5 - M14
 #10 - 5/8"



Angle Series

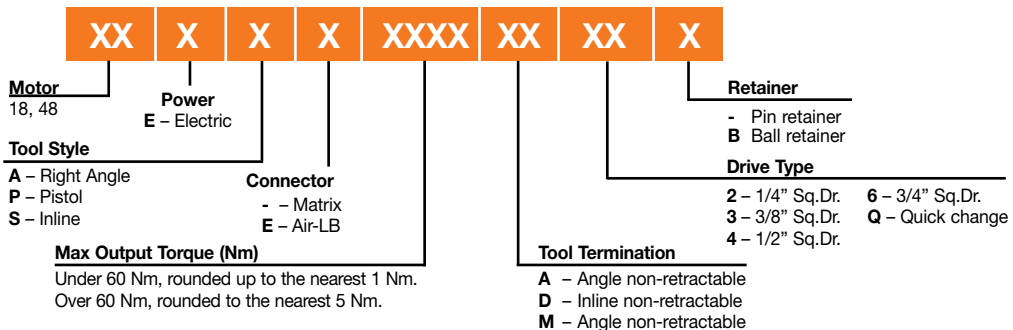
Torque Range
 2 - 230 Nm
 1.5 - 170 Ft. Lbs.
Bolt Size
 M5 - M36
 #10 - 1 1/2"

Inline Series

Torque Range
 2 - 150 Nm
 1.5 - 113 Ft. Lbs.
Bolt Size
 M5 - M14
 #10 - 5/8"



Standard Tool Nomenclature



Pistol Series Model Number	Torque Range		Max. Speed RPM	Weight*		Output Drive Size	Length		Side to Center	
	ft. lbs.	Nm		lbs.	kg		in.	mm	in.	mm
18EP06Q	1.5-4.4	2-6	4000	2.2	1.0	1/4" Hex	7.0	178	0.84	21
18EP06D2	1.5-4.4	2-6	4000	2.2	1.0	1/4"	6.5	165	0.84	21
18EP12Q	2.2-8.9	3-12	1820	2.4	1.1	1/4" Hex	7.7	196	0.84	21
18EP12D3	2.2-8.9	3-12	1820	2.4	1.1	3/8"	7.2	183	0.84	21
18EP17Q	3.0-12.5	4-17	1290	2.4	1.1	1/4" Hex	7.7	196	0.84	21
18EP17D3	3.0-12.5	4-17	1290	2.4	1.1	3/8"	7.2	183	0.84	21
18EP22D3	3.7-16.2	5-22	985	2.4	1.1	3/8"	7.2	183	0.84	21
18EP31D3	5.2-22.9	7-31	695	2.4	1.1	3/8"	7.2	183	0.84	21
48EP12Q	2.2-8.9	3-12	4000	2.7	1.2	1/4" Hex	8.2	208	0.84	21
48EP12D2	2.2-8.9	3-12	4000	2.7	1.2	1/4"	7.7	196	0.84	21
48EP25D3	4.4-18.4	6-25	1820	2.9	1.3	3/8"	8.4	213	0.84	21
48EP36D3	5.9-26.6	8-36	1290	2.9	1.3	3/8"	8.4	213	0.84	21
48EP48D3	7.4-35.4	10-48	985	3.0	1.4	3/8"	8.6	218	0.84	21
48EP65D4	9.6-47.9	13-65	750	5.0	2.3	1/2"	11.4	290	1.1	28
48EP90D4	14.0-66.4	19-90	510	5.3	2.4	1/2"	12.0	305	1.1	28
48EP125D4	19.2-92.2	26-125	360	5.3	2.4	1/2"	12.0	305	1.1	28
48EP150D4	22.9-110.6	31-150	240	5.3	2.4	1/2"	12.0	305	0.9	23

Standard Equipment: Matrix Connector; Suspension Bail; Dead Handle is included with 18EP12Q & 18EP12D3.
Reaction bar is included with pistol tools with output torques of 17-150 Nm.

Angle Series Model Number	Torque Range		Max. Speed RPM	Weight*		Output Drive Size	Length		Anglehead					
	ft. lbs.	Nm		lbs.	kg		in.	mm	Side to Center		Height			
									in.	mm	in.	mm	in.	mm
18EA08AL2	1.5-5.9	2-8	3000	2.9	1.3	1/4"	13.6	345	0.51	13	1.4	36		
18EA15AM3	3.0-11.1	4-15	1300	3.3	1.5	3/8"	14.8	376	0.59	15	1.6	41		
18EA22AM3	3.7-16.2	5-22	920	3.3	1.5	3/8"	14.8	376	0.59	15	1.6	41		
18EA28AM3	4.4-20.7	6-28	700	3.3	1.5	3/8"	14.8	376	0.59	15	1.6	41		
48EA15AL3	2.2-11.1	3-15	2855	3.8	1.7	3/8"	15.7	398	0.59	15	1.6	41		
48EA28AL3	4.4-20.7	6-28	1300	4.1	1.9	3/8"	16.2	410	0.59	15	1.6	41		
48EA41AM3	6.6-30.2	9-41	1090	4.3	2.0	3/8"	17.3	440	0.75	19	1.9	48		
48EA58AM3	8.9-42.8	12-58	770	4.3	2.0	3/8"	17.3	440	0.75	19	1.9	48		
48EA58AM4	8.9-42.8	12-58	770	4.3	2.0	1/2"	17.3	440	0.75	19	1.9	48		
48EA90AH4	13.3-64.2	18-87	515	6.6	3.0	1/2"	18.5	470	0.81	21	2.3	58		
48EA105AH4	15.5-76.7	21-104	340	6.6	3.0	1/2"	18.5	470	0.81	21	2.3	58		
48EA135MH4	19.9-98.1	27-133	265	7.3	3.3	1/2"	19.1	485	0.94	24	2.4	61		
48EA175AX6	26.6-129.8	36-176	190	10.2	4.6	3/4"	21.6	549	1.06	27	2.7	69		
48EA230AX6	33.9-169.6	46-230	145	10.2	4.6	3/4"	21.6	549	1.06	27	2.7	69		

Standard Equipment: Matrix Connector; Suspension Bail.

Inline Series Model Number	Torque Range		Max. Speed RPM	Weight*		Output Drive Size	Length		Side to Center	
	ft. lbs.	Nm		lbs.	kg		in.	mm	in.	mm
18ES06Q	1.5-4.4	2-6	4000	2.5	1.1	1/4" Hex	12.3	312	0.91	23
18ES06D2	1.5-4.4	2-6	4000	2.5	1.1	1/4"	11.8	300	0.91	23
18ES12Q	2.2-8.9	3-12	1820	2.7	1.2	1/4" Hex	13.0	330	0.91	23
18ES12D3	2.2-8.9	3-12	1820	2.7	1.2	3/8"	12.4	315	0.91	23
18ES17Q	3.0-12.5	4-17	1290	2.7	1.2	1/4" Hex	13.0	330	0.91	23
18ES17D3	3.0-12.5	4-17	1290	2.7	1.2	3/8"	12.4	315	0.91	23
18ES22D3	3.7-16.2	5-22	985	2.7	1.2	3/8"	12.4	315	0.91	23
18ES31D3	5.2-22.9	7-31	695	2.7	1.2	3/8"	12.4	315	0.91	23
48ES12Q	2.2-8.9	3-12	4000	3.0	1.4	1/4" Hex	13.5	343	0.91	23
48ES12D2	2.2-8.9	3-12	4000	3.0	1.4	1/4"	13.0	330	0.91	23
48ES25D3	4.4-18.4	6-25	1820	3.2	1.5	3/8"	13.6	345	0.91	23
48ES36D3	5.9-26.6	8-36	1290	3.2	1.5	3/8"	13.6	345	0.91	23
48ES48D3	7.4-35.4	10-48	985	3.3	1.5	3/8"	13.8	351	0.91	23
48ES65D4	9.6-47.9	13-65	750	5.3	2.4	1/2"	16.6	420	1.13	29
48ES90D4	14.0-66.4	19-90	510	5.6	2.5	1/2"	17.1	435	1.13	29
48ES125D4	19.2-92.2	26-125	360	5.6	2.5	1/2"	17.1	435	1.13	29
48ES150D4	22.9-110.6	31-150	240	5.6	2.5	1/2"	17.1	435	1.13	29

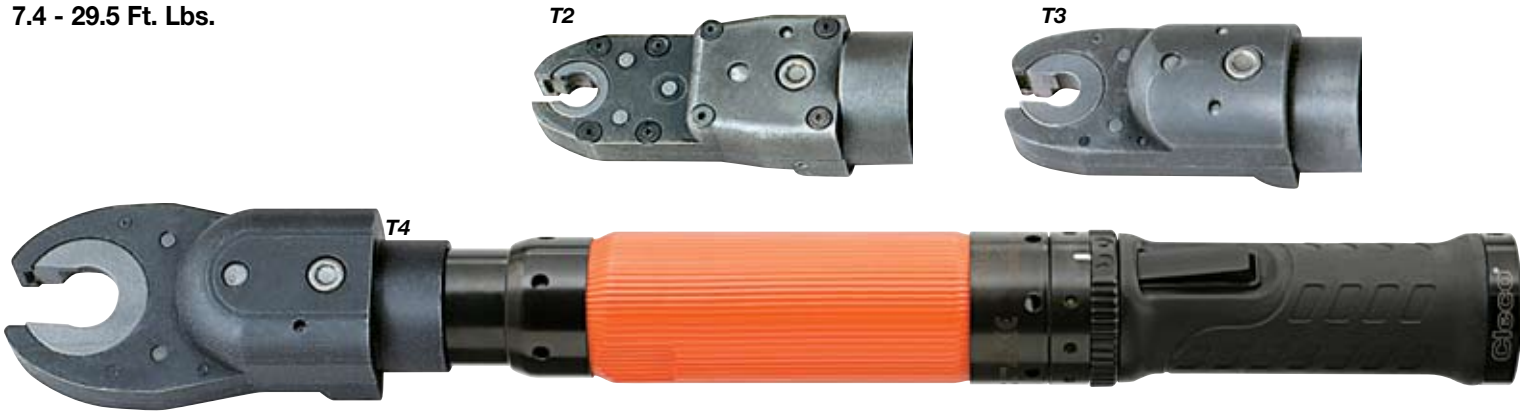
Standard Equipment: Matrix Connector; Suspension Bail; Dead Handle is included with 18ES12Q and 18ES12D3.
Reaction bar is included with inline tools with output torques of 17-150 Nm.

** Weights are without tool cable or suspension bail. All tools must be used with a approved Cooper Power Tools cable and controller.

Cleco 18 & 48 Series

Tube Nut Series

Torque Range
 10 - 40 Nm
 7.4 - 29.5 Ft. Lbs.



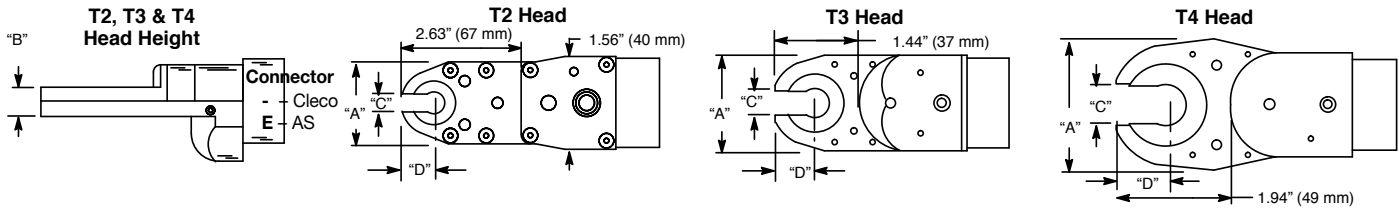
Tube Nut	Max. Drive Size	Torque Range		Free Speed	Weight*		Length		Head							
		Ft.Lbs.	Nm		RPM	lbs.	kg	in.	mm	A Width	B Blade Ht.	C Opening	D End/Cntr.			
48ET20T2	1/2"	7.4-14.8	10-20	1425	4.4	2.0	16.9	430	1.42	36	0.55	14	0.28	7	0.53	13
48ET30T3	3/4"	11.1-22.1	15-30	1030	4.5	2.0	16.6	422	1.65	42	0.59	15	0.51	13	0.73	19
48ET40T4	1 1/16"	14.8-29.5	20-40	770	5.3	2.3	17.9	454	2.36	60	0.59	15	0.71	18	0.93	24

*Weights are without tool cable and reaction bar.

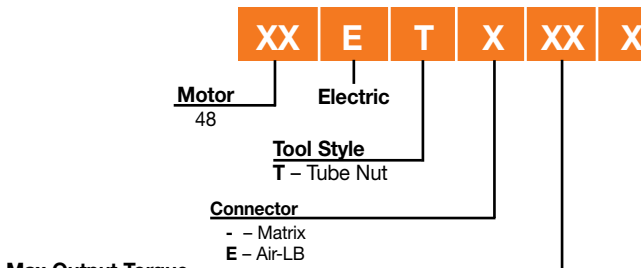
General: All tools must be used with an approved Cooper Power Tools cable and controller.

Standard Equipment: Matrix Connector; Suspension Bail.

Extra Equipment: Std.Tool Cable 542778-XX, Swivel Cable 542780-XX, Extension Cable 542779-XX, Swivel Bail 541715-2



Tube Nut Tool Nomenclature

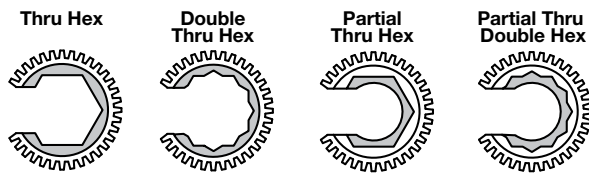


Max Output Torque

<60 Nm, rounded up to the nearest 1 Nm.

Head Type

- T2 - 20 Nm
- T3 - 30 Nm
- T4 - 40 Nm



Socket Nomenclature

XX E T X XX XX XX XX X

Output Type

- 0 - Partial Thru Hex
- 1 - Thru Hex
- 2 - Double Thru Hex
- 3 - Partial Thru Double Hex

Extension Length

- 0 - Flush
- 2 - 1/4"
- 4 - 1/2"
- 6 - 3/4"
- 8 - 1"

Maximum Hex Socket Size

- MG, EE T2 Head Type
- MM, 3/4" T3 Head Type
- MU, 1 1/16" T4 Head Type
- 00, ## (Specials) All Head Types

Socket Sizes

EA - 1/4"	EO - 1 1/8	MF - 12mm	MO - 21mm
EC - 3/8	EP - 1 3/16	MG - 13mm	MP - 22mm
ED - 7/16	EQ - 1 1/4	MH - 14mm	MQ - 23mm
EE - 1/2	M5 - 5mm	MI - 15mm	MR - 24mm (15/16")
EF - 9/16	M6 - 6mm	MJ - 16mm (5/8")	MS - 25mm
EH - 11/16	MA - 7mm	MK - 17mm	MT - 26mm
EJ - 13/16	MB - 8mm	ML - 18mm	MU - 27mm (1 1/16")
EK - 7/8	MD - 10mm	MM - 19mm (3/4")	
EM - 1	ME - 11mm	MN - 20mm	

18 & 48 Controllers & Cables

Controllers



TME

Handheld Applications

Model Number		Description
115VAC	230VAC	
TME-211-15- *	TME-211-30- *	1 Channel Graph - Ethernet
TME-211-15- * -ED	TME-211-30- * -ED	1 Channel Graph - Ethernet - Devicenet
TME-211-15- * -EP	TME-211-30- * -EP	1 Channel Graph - Ethernet - Profibus
TME-221-15- *	TME-221-30- *	2 Channel Graph - Ethernet
TME-221-15- * -ED	TME-221-30- * -ED	2 Channel Graph - Ethernet - Devicenet
TME-221-15- * -EP	TME-221-30- * -EP	2 Channel Graph - Ethernet - Profibus

TMEM-114-15- *	TMEM-114-30- *	Mini - Ethernet
TMEM-114-15- * -IO	TMEM-114-30- * -IO	Mini - Ethernet - IO
TMEM-114-15- * -ED	TMEM-114-30- * -ED	Mini - Ethernet - Devicenet
TMEM-114-15- * -EP	TMEM-114-30- * -EP	Mini - Ethernet - Profibus

*Languages offered: D-German, P-Portuguese, S-Spanish, U-English.

NOTE: TMEM 230VAC Only with 48 series.



TMEM

Fixtured & Handheld Applications



T3M






Model Number		Description
115VAC	230VAC	
T3M-51-M-15-U	T3M-51-M-30-U	T3M - TMH
T3M-51-M-15-U-D	T3M-51-M-30-U-D	T3M - TMH
T3M-51-M-15-U-I	T3M-51-M-30-U-I	T3M - TMH - Interbus
T3M-51-M-15-U-P	T3M-51-M-30-U-P	T3M - TMH - Profibus

T3MS-11-M-15-SM	T3MS-11-M-30-SM	T3M Slave - TMH - Mid. Position
T3MS-11-M-15-SE	T3MS-11-M-30-SE	T3M Slave - TMH - End Position



T3M Slave

Cables

Controller	Tool Cable	Extension Cable	Tool Series
 <p>TME TMEM</p>	542778- X M Standard 542780- X M Angle Swivel X = 1**, 2**, 3, 6, 8, 10, 15, 50 (meters)	542779- X M (optional) X = 1, 2, 3, 6, 8, 10, 15, 50 (meters)	18EA, EP, ES 48EA, EP, ES, ET
 <p>T3M T3M Slave</p>	 <p>Swivel</p>		 <p>Matrix</p>

**Must be used with extension cable.

Durable Production Performance For Safety Critical Joints



Services & Support

Even the most durable tools need a support plan to cover maintenance. Cooper Services offers responsive customer support and maintenance services, ensuring your solution operates seamlessly and efficiently.

For more information on our corded DC products, contact us at 1-800-845-5629, or visit us at www.cooperpowertools.com.

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