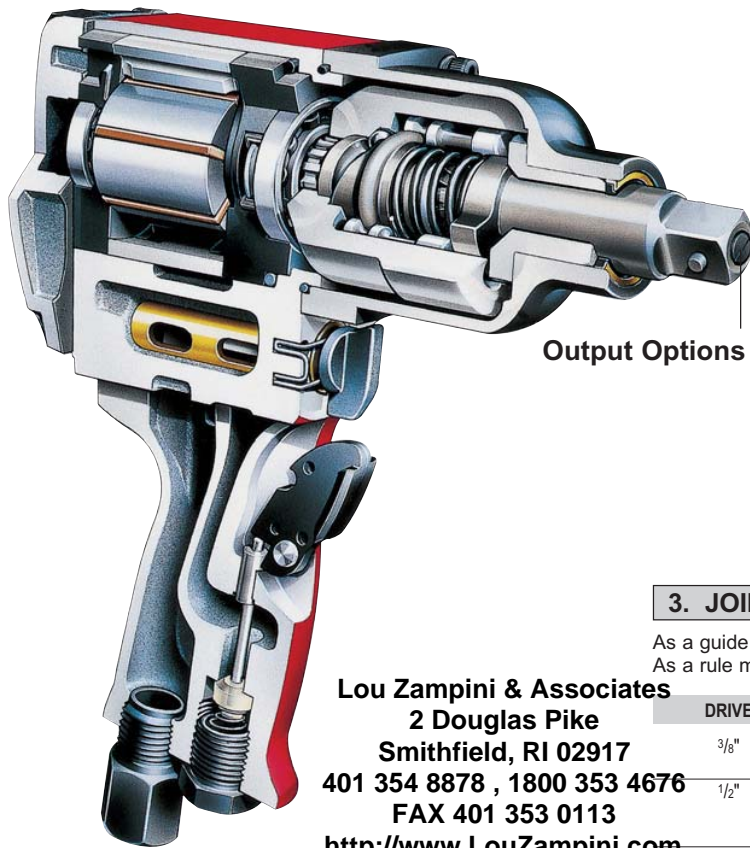


Impact Wrench Features



Output Options

Ease of service

Simple 3 piece construction for easy servicing. Durable steel clutch housings (zinc option on some models).

Clutch Options

Ⓢ has developed seven clutch types to meet the differing demands of our customers applications. No single clutch is perfect for every type of joint.

2 or 3-Jaw - Good on soft or hard joints that require high target torque..

Rocking Dog - Good on very soft joints providing high rundown speed.

Single or Double Dog - For soft and hard joints; high power/weight ratio.

Twin Lobe - All round clutch with a high durability, smooth operation and high power to weight ratio.

Pin - Excellent on hard joints and economical; a good power/weight ratio.

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Tool Selection

1. APPLICATION TYPE

These heavy duty tools are suitable for high production rates assembly lines, where durability is required and the tools are used frequently.

Torque Controlled – Tool 'shuts off' at a predetermined torque eliminating some operator influence. Can be used for two or more torque settings.

2. BOLT SIZE/TORQUE

The table below lists the maximum torques for bolt sizes and different grade fasteners. These torque figures are for guidance only. Always confirm values with the bolt supplier/manufacturer.

BOLT SIZE	METRIC ISO 8.8	METRIC ISO 10.9	METRIC ISO 12.9	BOLT SIZE	SAE GRADE 1 & GRADE 2	SAE GRADE 5	ASTM-UNC GRADE 8/A490
mm	Nm	Nm	Nm	in.	ft lb	ft lb	ft lb
6	10.5	15	17	1/4	3	8	11
8	25	36	43	5/16	6	16	22
10	51	71	86	3/8	11	28	38
12	87	122	146	7/16	18	46	61
14	138	195	234	1/2	28	70	94
16	213	299	359	9/16	43	110	135
18	293	413	495	5/8	55	140	188
20	416	585	702	3/4	97	250	336
22	563	792	950	7/8	155	405	541
24	718	1011	1213	1	230	600	812
27	1060	1491	1789	1 1/8	340	770	1151
30	1440	2025	2430	1 1/4	480	1080	1626
33	1956	2751	3301	1 3/8	660	1470	2130
36	2517	3540	4248	1 1/2	860	1950	2830

3. JOINT TYPE

As a guide use the table to specify a tool for a certain joint. As a rule most joints are 'soft'.

DRIVE	VERY SOFT	SOFT	HARD
3/8"		CP6031 CP6300	CP6031 CP6300
1/2"		CP6041 CP6500 CP6540	CP6041 CP6500
3/4"	CP6540	CP6060 CP6760	CP6060 CP6760
1"		CP6110 CP0610 CP0611	CP6110 CP0610 CP0611
1 1/2"	CP0610 CP0614	CP0614 CP6120	CP0614 CP6120

4. HANDLE TYPE



Pistol



D Handle
Outside Trigger

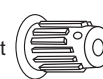


D Handle
Inside Trigger

5. SOCKET RETENTION



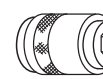
Pin Retainer
for infrequent socket change



Integral Spline
with integral push button retainer



Friction Ring
for rapid socket change



Quick Change
for screwdriver bits or torsion bars



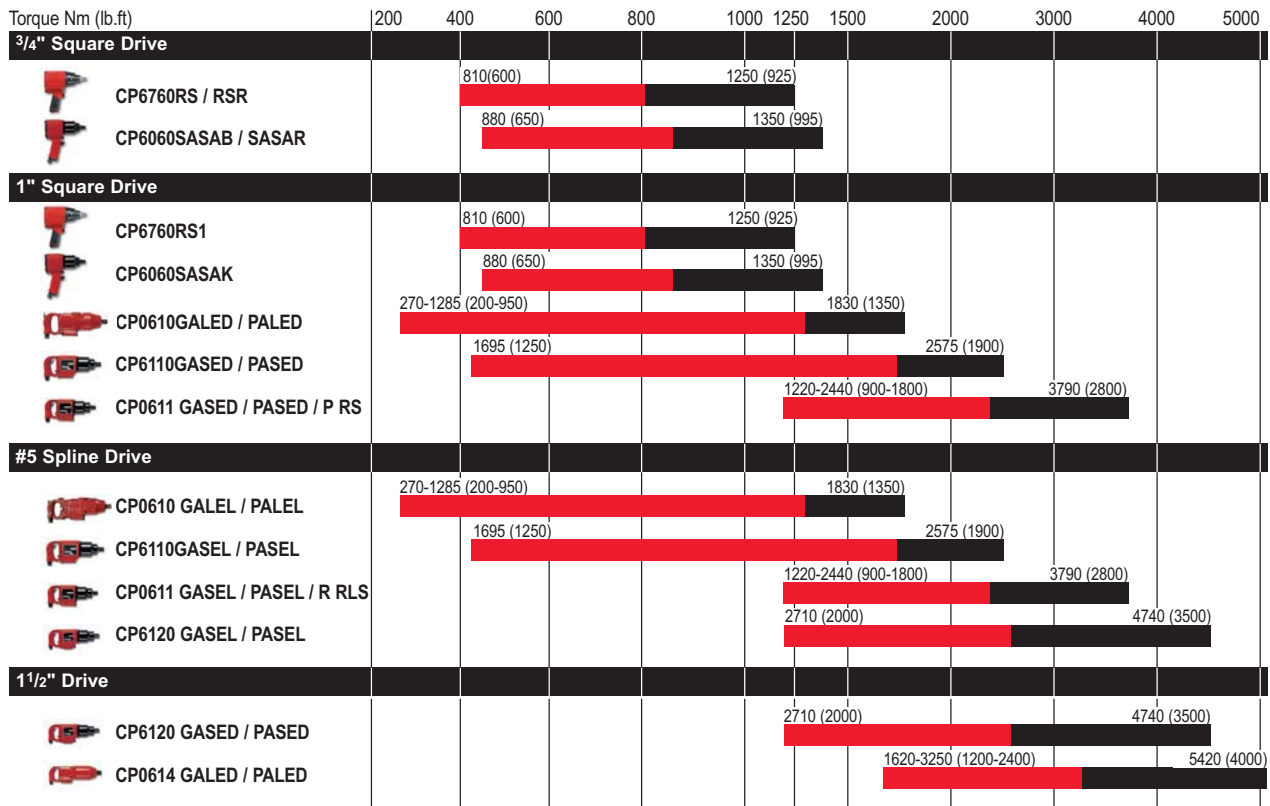
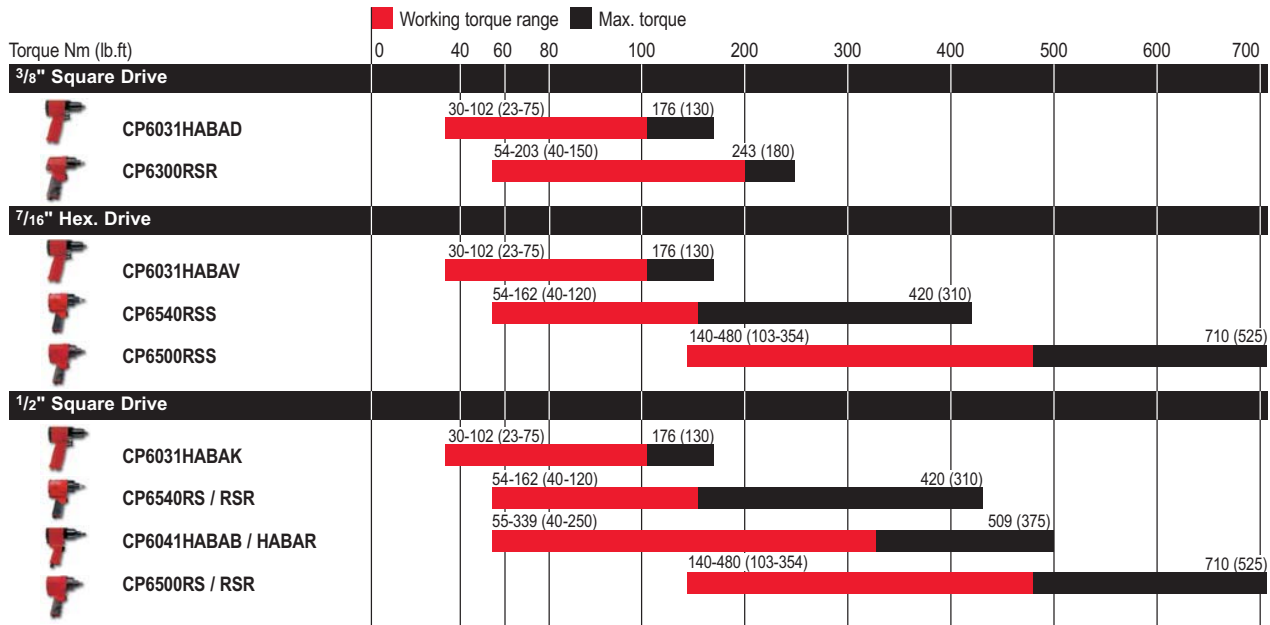
Hole
for pin o-ring type retention





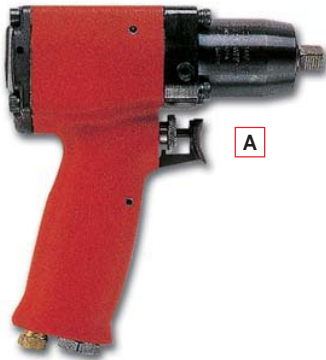
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Impact Wrench Torque Ranges



Impact Wrench

30 to 480 Nm (23 to 354 ft.lb)



A



B



C

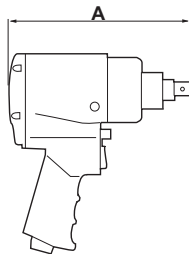


D



E

Model	A		Side to centre	
	mm	in.	mm	in.
CP6031 HABAD	143	5.63	25.4	1
CP6031 HABAK	143	5.63	25.4	1
CP6031 HABAV	146	5.75	25.4	1
CP6300 RSR	152	5.98	31.8	1.25
CP6041 HABAB	173	6.83	31.8	1.25
CP6041 HABAR	173	6.83	31.8	1.25
CP6500 RS	178	7.01	35.8	1.41
CP6500 RSR	178	7.01	35.8	1.41
CP6500 RSS	178	7.01	35.8	1.41
CP6540 RS	188	7.4	35.1	1.38
CP6540 RSR	188	7.4	35.1	1.38
CP6540 RSS	188	7.4	35.1	1.38



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OPTIONAL ACCESSORIES

CP6500
1/2" square drive with 50mm (2") extension, friction ring retainer CA148629

CP6500 - reverse torque 845Nm (625ft.lb)

Air inlet: 1/4" NPT

Torque ranges should be used as a guide only. Final torque will depend on the joint, operating pressure and drive accessories.

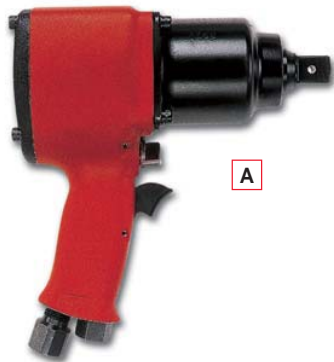
PIC REF	MODEL	PART NUMBER	DRIVE	CLUTCH TYPE	HANDLE STYLE	BLOWS PER MINUTE	TORQUE WORKING		TORQUE MAX.		WEIGHT		AIR CONSUMPTION	
							Nm	ft lb	Nm	ft lb	kg	lb	l/s	cfm
A	CP6031 HABAD*	T021887	3/8"	2-Jaw	Pistol	2200	30-102	23-75	176	130	1.5	3.3	12.0	25
A	CP6031 HABAK*	T021884	1/2"	2-Jaw	Pistol	2200	30-102	23-75	176	130	1.5	3.3	12.0	25
A	CP6031 HABAV**	T021885	7/16" hex	2-Jaw	Pistol	2200	30-102	23-75	176	130	1.5	3.3	12.0	25
B	CP6300 RSR***	T025285	3/8"	Single-Dog	Pistol	1800	54-203	40-150	243	180	1.6	3.5	6.6	14
C	CP6041 HABAB*	T021888	1/2"	2-Jaw	Pistol	1700	55-339	40-250	509	375	2.80	6.2	18.9	40
C	CP6041 HABAR***	T022331	1/2"	2-Jaw	Pistol	1700	55-339	40-250	509	375	2.80	6.2	18.9	40
D	CP6500 RS*	T025214	1/2"	Double-Dog	Pistol	1320	140-480	103-354	710	525	2.65	5.8	11.8	25
D	CP6500 RSR***	T025216	1/2"	Double-Dog	Pistol	1320	140-480	103-354	710	525	2.65	5.8	11.8	25
D	CP6500 RSS**	T025215	7/16" hex	Double-Dog	Pistol	1320	140-480	103-354	710	525	2.65	5.8	11.8	25
E	CP6540 RS*	T025312	1/2"	Rocking-Dog	Pistol	1320	54-162	40-120	420	310	2.80	6.2	10.4	22
E	CP6540 RSR***	T025313	1/2"	Rocking-Dog	Pistol	1320	54-162	40-120	420	310	2.80	6.2	10.4	22
E	CP6540 RSS**	T025314	7/16" hex	Rocking-Dog	Pistol	1320	54-162	40-120	420	310	2.80	6.2	10.4	22

Socket Retainer: * Pin - ** Quick Change - *** Friction Ring



Impact Wrench

245 to 1695 Nm (180 to 1250 ft.lb)

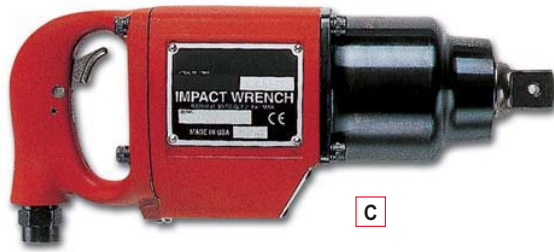


A

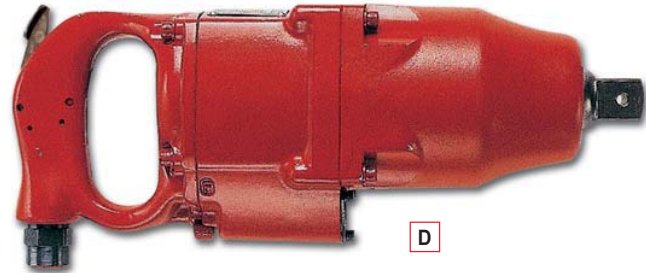


B

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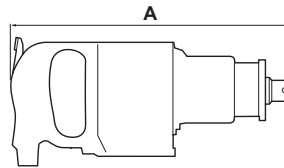
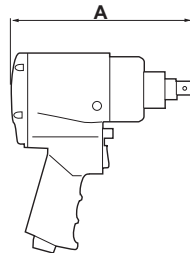


C



D

Model	A		Side to centre	
	mm	in.	mm	in.
CP6060 SASAB	194	7.64	45.2	1.78
CP6060 SASAK	194	7.64	45.2	1.78
CP6060 SASAR	194	7.64	45.2	1.78
CP6760 RS	230	9.05	45.7	1.8
CP6760 RS1	230	9.05	45.7	1.8
CP6760 RSR	230	9.05	45.7	1.8
CP6110 GASED	330	12.99	44.5	1.75
CP6110 GASEL	330	12.99	44.5	1.75
CP6110 PASED	330	12.99	44.5	1.75
CP0610 GALED	343	13.5	54.1	2.13



ACCESSORIES INCLUDED

	CP0610	CP6110
• Support handle	C039423	C145892
• Support handle mount		C116388
• Support handle screws (4 off)		C127944
• Retainer ring (see page 132)		

Air Inlet: 3/8" NPT for A & B - 1/2" NPT for C & D

Torque ranges should be used as a guide only. Final torque will depend on the joint, operating pressure and drive accessories.

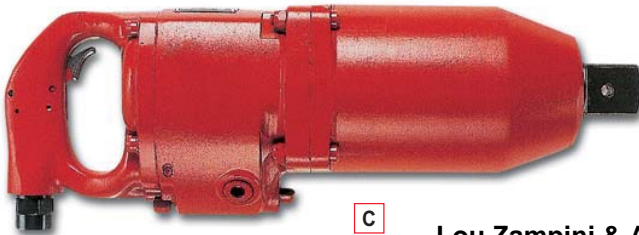
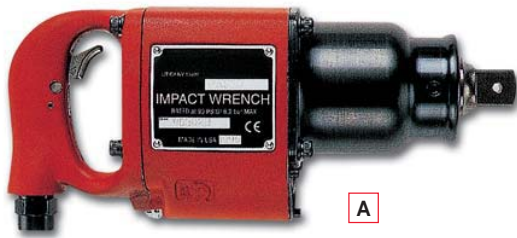
PIC REF	MODEL	PART NUMBER	DRIVE	CLUTCH TYPE	HANDLE STYLE	BLOWS PER MINUTE	TORQUE WORKING		TORQUE MAX.		WEIGHT		AIR CONSUMPTION	
							Nm	ft lb	Nm	ft lb	kg	lb	l/s	cfm
A	CP6060 SASAB*	T024059	3/4"	2-Jaw	Pistol	1000	265-880	195-650	1350	995	5.3	11.7	19.8	42
A	CP6060 SASAK*	T024060	1"	2-Jaw	Pistol	1000	265-880	195-650	1350	995	5.4	11.9	19.8	42
A	CP6060 SASAR**	T024058	3/4"	2-Jaw	Pistol	1000	265-880	195-650	1350	995	5.4	11.9	19.8	42
B	CP6760 RS*	T025309	3/4"	2-Jaw	Pistol	1000	245-810	180-600	1250	925	5.1	11.2	19.3	41
B	CP6760 RS1*	T025311	1"	2-Jaw	Pistol	1000	245-810	180-600	1250	925	5.1	11.2	19.3	41
B	CP6760 RSR**	T025310	3/4"	2-Jaw	Pistol	1000	245-810	180-600	1250	925	5.1	11.2	19.3	41
C	CP6110 GASED*	T024425	1"	Twin Lobe	D Outside Trigger	960	510-1695	375-1250	2575	1900	9.75	21.5	25.0	53
C	CP6110 GASEL***	T024426	#5 Spline	Twin Lobe	D Outside Trigger	960	510-1695	375-1250	2575	1900	9.75	21.5	25.0	53
C	CP6110 PASED*	T025100	1"	Twin Lobe	D Inside Trigger	960	510-1695	375-1250	2575	1900	9.75	21.5	25.0	53
C	CP6110 PASEL***	T025101	#5 Spline	Twin Lobe	D Inside Trigger	960	510-1695	375-1250	2575	1900	9.75	21.5	25.0	53
D	CP0610 GALED*	T018046	1"	3-Jaw	D Outside Trigger	825	270-1285	200-950	1830	1350	9.30	20.5	22.6	48
D	CP0610 GALEL***	T018041	#5 Spline	3-Jaw	D Outside Trigger	825	270-1285	200-950	1830	1350	9.30	20.5	22.6	48
D	CP0610 PALED*	T018253	1"	3-Jaw	D Inside Trigger	825	270-1285	200-950	1830	1350	9.30	20.5	22.6	48
D	CP0610 PALEL***	T018042	#5 Spline	3-Jaw	D Inside Trigger	825	270-1285	200-950	1830	1350	9.30	20.5	22.6	48

Socket Retainer: * Hole - ** Friction Ring - *** Integral



Impact Wrench

815 to 3250 (600 to 2400 ft.lb)



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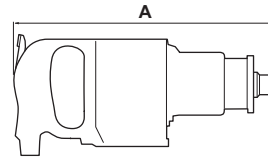
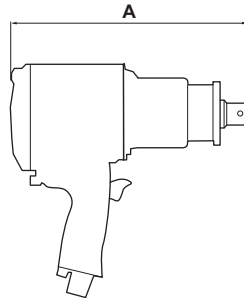
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Model	A		Side to centre	
	mm	in.	mm	in.
CP0611 GASED	318	12.52	57.2	2.25
CP0611 GASEL	318	12.52	57.2	2.25
CP0611 PASED	318	12.52	57.2	2.25
CP0611 PASEL	318	12.52	57.2	2.25
CP6120 GASED	375	14.76	58.7	2.31
CP6120 GASEL	375	14.76	58.7	2.31
CP6120 PASED	375	14.76	58.7	2.31
CP6120 PASEL	375	14.76	58.7	2.31
CP0614 GALED	417	16.42	61.0	2.4
CP0614 PALED	417	16.42	61.0	2.4
CP0611P RS	272	10.7	55.0	2.13
CP0611P RLS	272	10.7	55.0	2.13



ACCESSORIES INCLUDED

	CP0611	CP0614	CP6120
• Support handle	CA048548	C039423	CA048548
• Support handle mount	C116388		C119061
• Support handle screws (4 off)	C064806		P073025
• Retainer ring (see page 132)			

Air inlet: 1/2" NPT

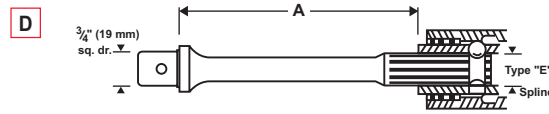
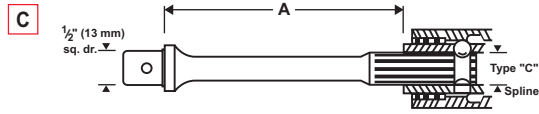
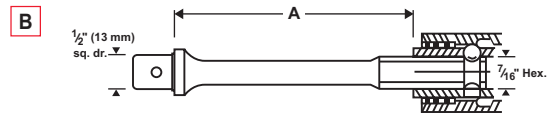
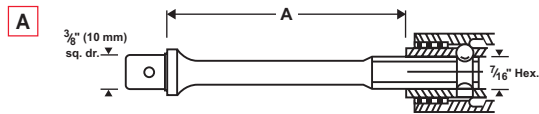
Torque ranges should be used as a guide only. Final torque will depend on the joint, operating pressure and drive accessories.

PIC REF	MODEL	PART NUMBER	DRIVE	CLUTCH TYPE	HANDLE STYLE	BLOWS PER MINUTE	TORQUE WORKING		TORQUE MAX.		WEIGHT		AIR CONSUMPTION	
							Nm	ft lb	Nm	ft lb	kg	lb	l/s	cfm
A	CP0611 GASED*	T022580	1"	2-Jaw	D Outside Trigger	1020	1220-2440	900-1800	3790	2800	10.2	22.5	22.6	48
A	CP0611 GASEL**	T022581	#5 Spline	2-Jaw	D Outside Trigger	1020	1220-2440	900-1800	3790	2800	10.2	22.5	22.6	48
A	CP0611 PASED*	T022578	1"	2-Jaw	D Inside Trigger	1020	1220-2440	900-1800	3790	2800	10.2	22.5	22.6	48
A	CP0611 PASEL**	T022579	#5 Spline	2-Jaw	D Inside Trigger	1020	1220-2440	900-1800	3790	2800	10.2	22.5	22.6	48
B	CP6120 GASED*	T018237	1 1/2"	2-Jaw	D Outside Trigger	960	815-2710	600-2000	4740	3500	15.4	33.9	28.3	60
B	CP6120 GASEL**	T017755	#5 Spline	2-Jaw	D Outside Trigger	960	815-2710	600-2000	4740	3500	15.4	33.9	28.3	60
B	CP6120 PASED*	T018841	1 1/2"	2-Jaw	D Inside Trigger	960	815-2710	600-2000	4740	3500	15.4	33.9	28.3	60
B	CP6120 PASEL**	T018235	#5 Spline	2-Jaw	D Inside Trigger	960	815-2710	600-2000	4740	3500	15.4	33.9	28.3	60
C	CP0614 GALED*	T020021	1 1/2"	2-Jaw	D Outside Trigger	500	1620-3250	1200-2400	5420	4000	14.3	31.5	27.4	58
C	CP0614 PALED*	T020022	1 1/2"	2-Jaw	D Inside Trigger	500	1620-3250	1200-2400	5420	4000	14.3	31.5	27.4	58
D	CP0611P RS*	T025413	1"	2-Jaw	Pistol	1020	1220-2440	900-1800	3790	2800	10.5	23.1	22.6	48
D	CP0611P RLS**	T025414	#5 Spline	2-Jaw	Pistol	1020	1220-2440	900-1800	3790	2800	10.5	23.1	22.6	48

Socket Retainer: * Hole - ** Integral



Torque Controlled Accessories



PIC REF	PART NUMBER	NOMINAL NUMBER	COLOR	TORQUE RANGE		LENGTH 'A'		PIC REF	PART NUMBER	NOMINAL NUMBER	COLOR	TORQUE RANGE		LENGTH 'A'	
				Nm	ft lb	mm	in.					Nm	ft lb	mm	in.

7/16" HEX. DRIVE TORK BARS CP6031 TEBAV

A	C112301	1	Red	11-14	8-10	95	3 3/4"	A	C112308	8	Or/White	37-41	27-30	95	3 3/4"
A	C112302	2	Orange	14-16	10-12	95	3 3/4"	A	C112309	9	Yel/White	41-46	30-34	87	3 7/16"
A	C112303	3	Yellow	16-20	12-15	95	3 3/4"	A	C112310	10	Grn/White	46-52	34-38	87	3 7/16"
A	C112304	4	Green	20-24	15-18	95	3 3/4"	A	C112311	11	Blue/White	52-57	38-42	87	3 7/16"
A	C112305	5	Blue	24-28	18-21	95	3 3/4"	A	C112312	12	Pur/White	57-62	42-46	49	1 5/16"
A	C112306	6	Purple	28-33	21-24	95	3 3/4"	A	C113412	Tork Bar Kit (Includes one each of bar + case)					
A	C112307	7	Red/White	33-37	24-27	95	3 3/4"								

PIC REF	PART NUMBER	NUMBER	COLOR	NOMINAL TORQUE RANGE SINGLE BLOW		LENGTH 'A'		PIC REF	PART NUMBER	NUMBER	COLOR	NOMINAL TORQUE RANGE SINGLE BLOW		LENGTH 'A'	
				Nm	ft lb	mm	in.					Nm	ft lb	mm	in.

7/16" HEX. DRIVE TORK BARS CP6041 TEBAS

B	C113201	1	Red	20-27	15-20	110	4 5/16"	B	C113208	8	Or/White	68-75	50-55	110	4 5/16"
B	C113202	2	Orange	27-34	20-25	110	4 5/16"	B	C113209	9	Yel/White	75-81	55-60	110	4 5/16"
B	C113203	3	Yellow	34-41	25-30	110	4 5/16"	B	C113210	10	Grn/White	81-95	60-70	92	3 5/16"
B	C113204	4	Green	41-48	30-35	110	4 5/16"	B	C113211	11	Blue/White	95-109	70-80	67	2 5/8"
B	C113205	5	Blue	48-54	35-40	110	4 5/16"	B	C113212	12	Pur/White	109-122	80-90	41	1 5/16"
B	C113206	6	Purple	54-61	40-45	110	4 5/16"	B	C113765	Tork Bar Kit (Includes one each of bar + case)					
B	C113207	7	Red/White	61-68	45-50	110	4 5/16"								

PIC REF	PART NUMBER	NUMBER	COLOR	NOMINAL TORQUE RANGE SINGLE BLOW		LENGTH 'A'		PIC REF	PART NUMBER	NUMBER	COLOR	NOMINAL TORQUE RANGE SINGLE BLOW		LENGTH 'A'	
				Nm	ft lb	mm	in.					Nm	ft lb	mm	in.

TYPE 'C' SPLINE DRIVE TORK BARS CP6041 TEBAD

C	C051531	1	Red	20-27	15-20	106	4 3/16"	C	C051538	8	Or/White	68-75	50-55	106	4 3/16"
C	C051532	2	Orange	27-34	20-25	106	4 3/16"	C	C051539	9	Yel/White	75-81	55-60	106	4 3/16"
C	C051533	3	Yellow	34-41	25-30	106	4 3/16"	C	C051540	10	Grn/White	81-95	60-70	106	4 3/16"
C	C051534	4	Green	41-48	30-35	106	4 3/16"	C	C051541	11	Blue/White	95-109	70-80	106	4 3/16"
C	C051535	5	Blue	48-54	35-40	106	4 3/16"	C	C051542	12	Pur/White	109-122	80-90	106	4 3/16"
C	C051536	6	Purple	54-61	40-45	106	4 3/16"	C	C052329	Tork Bar Kit (Includes one each of bar + case)					
C	C051537	7	Red/White	61-68	45-50	106	4 3/16"								

PIC REF	PART NUMBER	NUMBER	COLOR	NOMINAL TORQUE RANGE		LENGTH 'A'		PIC REF	PART NUMBER	NUMBER	COLOR	NOMINAL TORQUE RANGE		LENGTH 'A'	
				Nm	ft lb	mm	in.					Nm	ft lb	mm	in.

TYPE 'E' SPLINE DRIVE TORK BARS CP6060 TESAT

D	C059901	1	Red	136-149	100-110	141	5 9/16"	D	C059908	8	Or/White	230-244	170-180	141	5 9/16"
D	C059902	2	Orange	149-163	110-120	141	5 9/16"	D	C059909	9	Yel/White	244-285	180-210	67	2 5/8"
D	C059903	3	Yellow	163-176	120-130	141	5 9/16"	D	C059910	10	Grn/White	285-325	210-240	67	2 5/8"
D	C059904	4	Green	176-190	130-140	141	5 9/16"	D	C059911	11	Blue/White	325-366	240-270	67	2 5/8"
D	C059905	5	Blue	190-203	140-150	141	5 9/16"	D	C059912	12	Pur/White	366-407	270-300	67	2 5/8"
D	C059906	6	Purple	203-217	150-160	141	5 9/16"	D	C101075	Tork Bar Kit (Includes one each of bar + case)					
D	C059907	7	Red/White	217-230	160-170	141	5 9/16"								

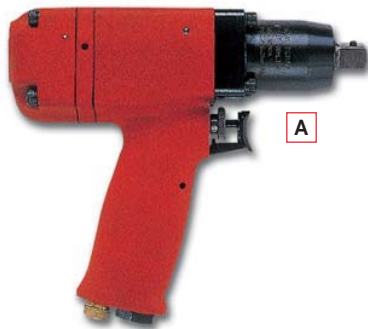
Under normal working conditions a Tork Bar will hold the mean torque output of the wrench within the limits listed. Under unusual work conditions it may be necessary to use a higher or lower rated bar to get the desired torque. After selecting a bar for a specific job always check it by driving a few fasteners and measuring the torque delivered.

Lou Zampini & Associates
 2 Douglas Pike
 Smithfield, RI 02917
 401 354 8878 , 1800 353 4676
 FAX 401 353 0113



Torque Controlled Tools

18 to 405 Nm (13 to 300 ft.lb)



A



B



C

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Smithfield, RI 02917
401 354 8878 , 1800 353 4676
FAX 401 353 0113

<http://www.LouZampini.com>
<http://www.PneumaticToolsOnline.com>

Methods of Torque Control

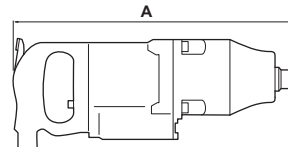
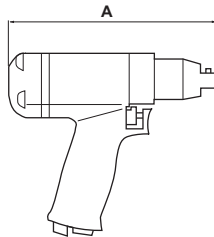
1. 'Close Coupled' Torque Control – socket attached directly to the output of the wrench

The torque control mechanism and speed adjustments are made by two screws located in the rear of the housing cap. The wrench shuts off automatically when the specified torque is reached. Correct torque setting is determined by testing on the joint to be assembled.

2. 'Quick Change Tork Bar' – CP6031 TEBAV, CP6041 TEBAD, CP6041 TEBAS, CP6060 TESAT

Simple substitution of the tork bar changes the torque output of the tool. The wrench shuts off automatically when the specified torque is reached. This solution should be used if two or more torques are required from the same tool.

Model	A		Side to centre	
	mm	in.	mm	in.
CP6031 TEBAK	159	6.25	34.9	2.31
CP6031 TEBAV	191	7.0	34.9	2.31
CP6041 TEBAB	211	8.3	31.8	1.25
CP6041 TEBAD	244	9.6	31.8	1.25
CP6041 TEBAS	244	9.6	31.8	1.25
CP6060 TESAB	240	8.3	50.8	2.0
CP0610 TELUD	391	15.4	54.0	2.12



ACCESSORIES INCLUDED

- Support handle
- Retainer ring (see page 132)

CP0610
C039423

The Quick Change models require a Tork bar:

Order as a separate line any Tork bar from the appropriate table on page 118.

CP0610-T – Lock out feature to override the shut-off, for 'turn of the nut' fastening.

Air inlet: 1/4" NPT for A & B - 1/2" NPT for C

Torque ranges should be used as a guide only. Final torque will depend on the joint, operating pressure and drive accessories.

PIC REF	MODEL	PART NUMBER	DRIVE	CLUTCH TYPE	HANDLE STYLE	BLOWS PER MINUTE	TORQUE MIN.		TORQUE MAX.		WEIGHT		AIR CONSUMPTION	
							Nm	ft lb	Nm	ft lb	kg	lb	l/s	cfm
A	CP6031 TEBAK*	T021951	1/2"	2-Jaw	Pistol	2200	18	13	54	40	1.6	3.5	11.8	25
A	CP6031 TEBAV**	T021952	7/16" hex	2-Jaw	Pistol	2200	27	20	47	35	1.7	3.7	11.8	25
B	CP6041 TEBAB*	T021953	1/2"	2-Jaw	Pistol	1700	41	30	129	95	3.0	6.6	18.9	40
B	CP6041 TEBAD**	T021954	C Spline	2-Jaw	Pistol	1700	34	25	95	70	3.1	6.8	18.9	40
B	CP6041 TEBAS**	T021955	7/16" hex	2-Jaw	Pistol	1700	48	35	115	85	3.1	6.8	18.9	40
B	CP6060 TESAB***	T024176	3/4"	2-Jaw	Pistol	1000	169	125	529	390	6.0	13.2	27.8	59
B	CP6060 TESAT**	T021604	E Spline	2-Jaw	Pistol	1000	136	100	339	250	6.0	13.2	27.8	59
B	CP6060 TESAK***	T021606	1"	2-Jaw	Pistol	1000	170	125	529	390	6.0	13.2	27.8	59
C	CP0610 TELUD***	T018056	1"	3-Jaw	D Outside	630	405	300	810	600	10.4	22.9	27.8	59
C	CP0610 TELUL****	T018044	#5 Spline	3-Jaw	D Outside	630	405	300	810	600	10.4	22.9	27.8	59

Socket Retainer: * Pin - ** Quick Change - *** Hole - **** Integral

