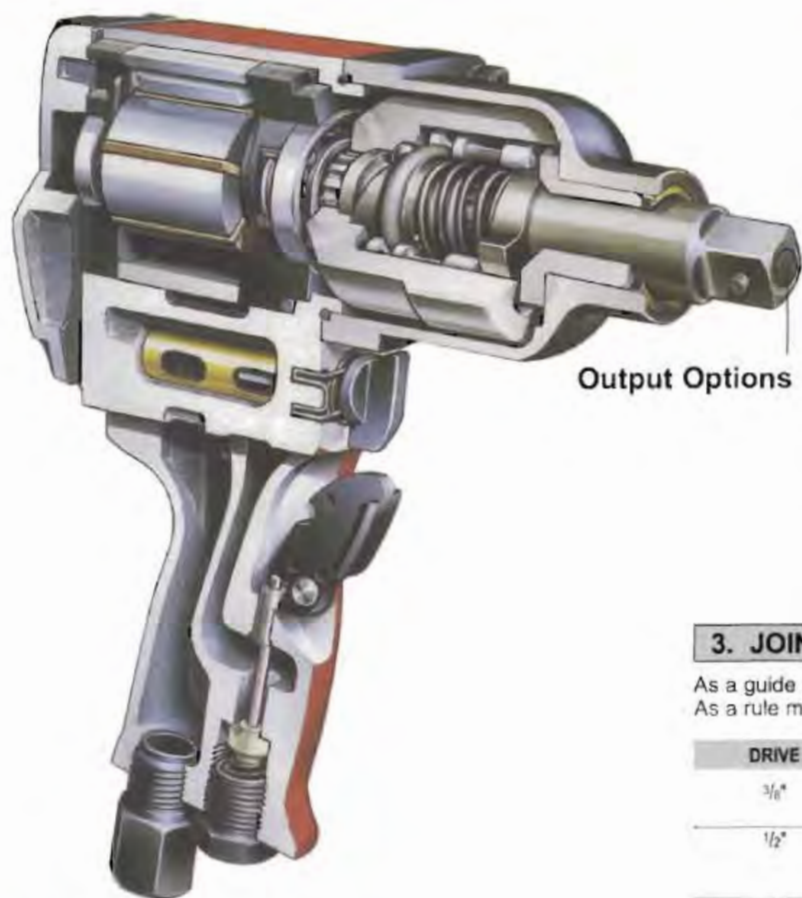


Impact Wrench Features



Output Options

Ease of service

Simple 3 piece construction for ease and speed of servicing.

Durable steel clutch housings (zinc option on some models).

Clutch Options

Ⓢ have developed a range of 7 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 with high ultimate torques.

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

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

Twin Lobe - All round clutch with a high ultimate torque and high power to weight ratio.

Pin - Excellent on hard joints with a good power/weight ratio.

Tool Selection

1. APPLICATION TYPE

These tools are Heavy Duty and suitable for high production rates such as those on production/assembly lines, where high durability is used and the tools are used frequently.

Torque Controlled -- Tool 'shuts off' at a predetermined torque with the added benefits of being able to eliminate some operator influence and be used for 2 or more torques.

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

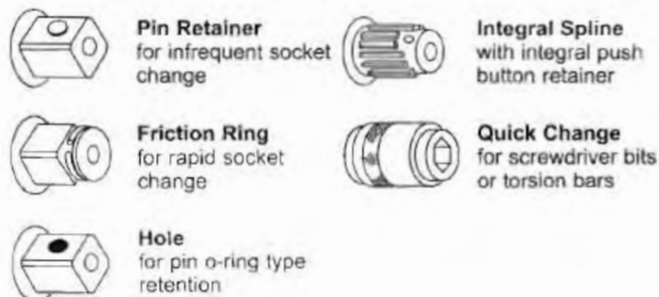
As a guide use the table to specify a tool for a certain joint. As a rule most joints are 'soft'

DRIVE	VERY SOFT	SOFT	HARD
3/8"		CP6031 CP6300	CP6031 CP6300
1/2"		CP6041 CP6500	CP6041 CP6500
	CP6540	CP6540	
3/4"		CP6060 CP6700	CP6060 CP6700
	CP6700	CP6700	
1"		CP6110 CP0610	CP6110 CP0610
	CP0610	CP0611 CP9596	CP0611 CP9596
1 1/2"	CP0614	CP0614 CP6120	CP0614 CP6120

4. HANDLE TYPE

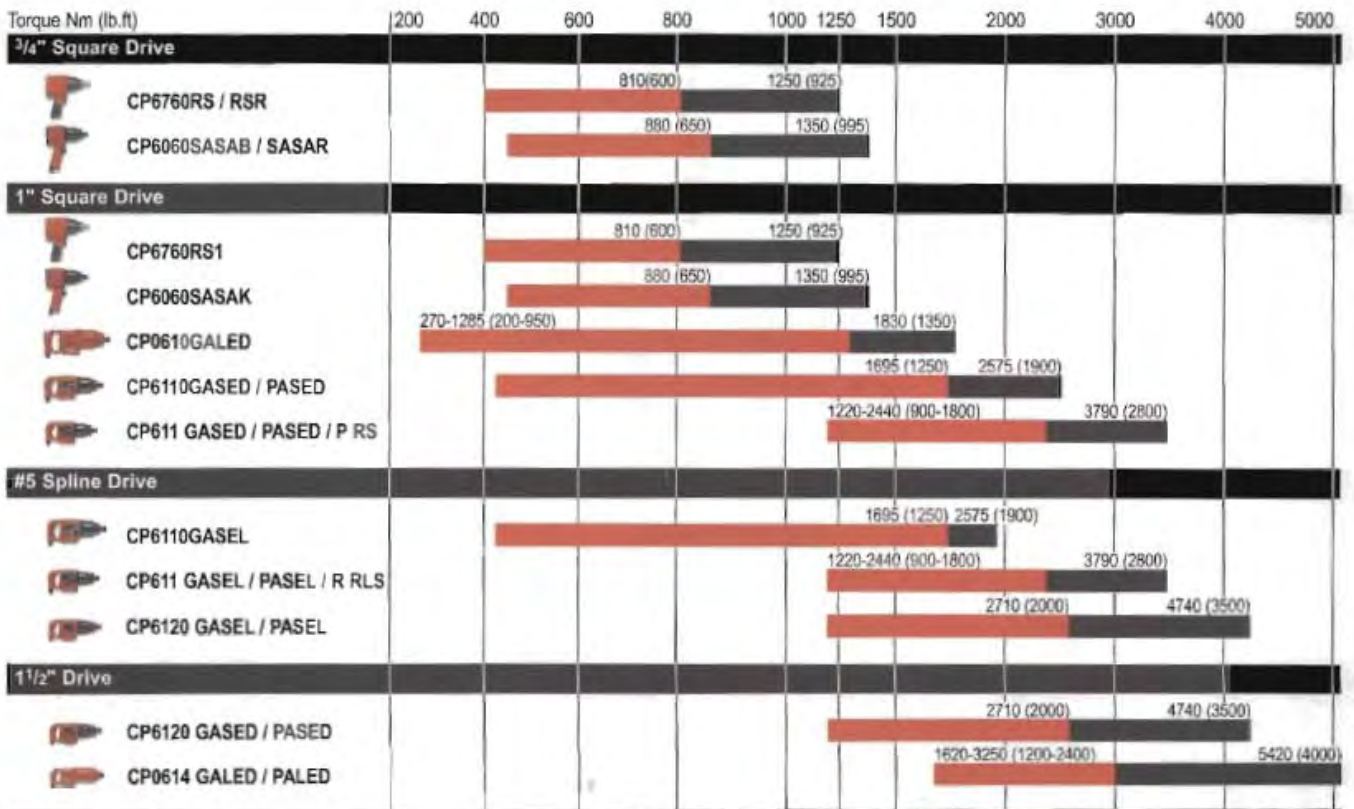
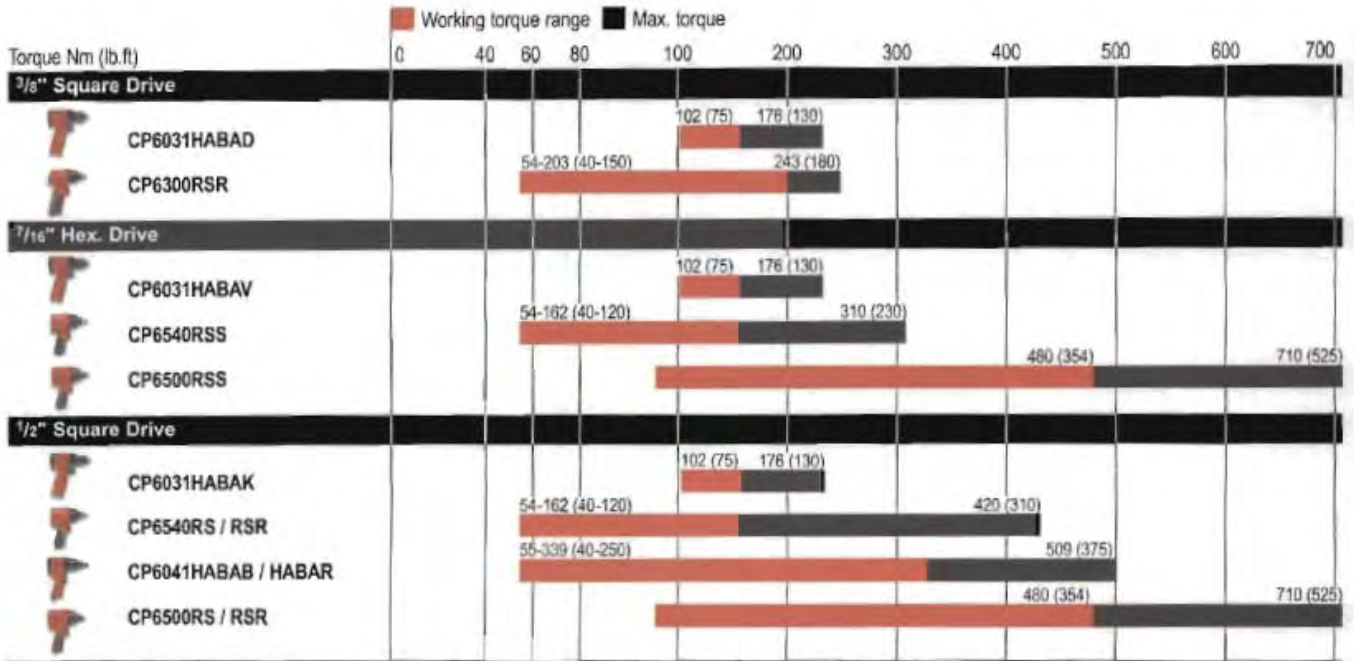


5. SOCKET RETENTION



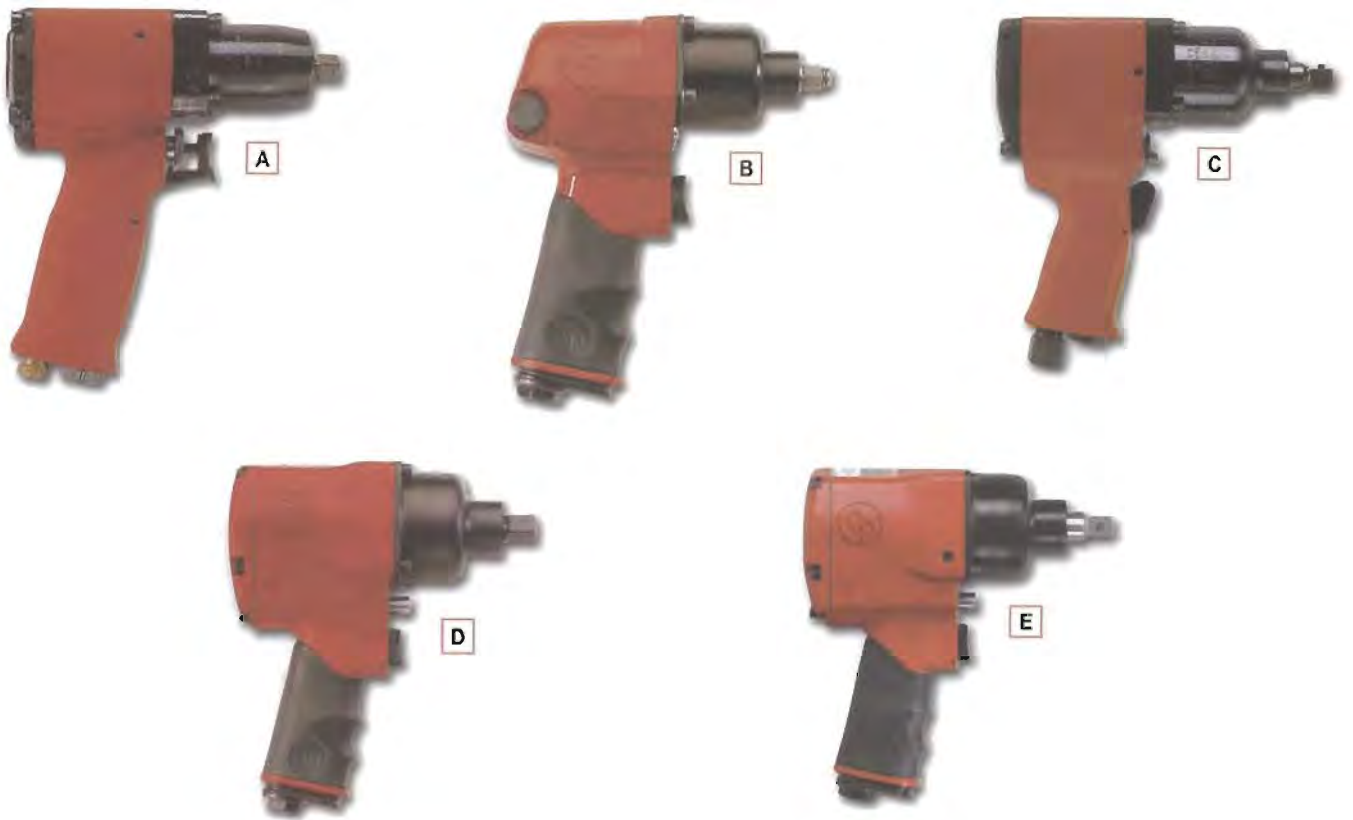


Impact Wrench Torque Ranges

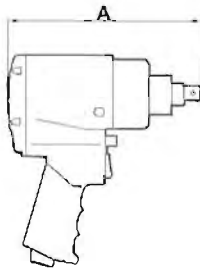


Impact Wrench

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



Model	A		Side to centre	
	mm	in.	mm	in.
CP6031 HABAD	143	5.63	25.4	1
CP6031 HABAX	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



OPTIONAL ACCESSORIES

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

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

* Free speed

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	SOCKET RETAINER	CLUTCH TYPE	HANDLE STYLE	TORQUE WORKING		TORQUE MAX.		WEIGHT		AIR CONSUMPTION	
							Nm	ft lb	Nm	ft lb	kg	lb	l/s*	cfm*
A	CP6031 HABAD	TO21887	3/8"	Pin	2-Jaw	Pistol	30-102	23-75	176	130	1.5	3.3	12.0	25
A	CP6031 HABAX	TO21884	1/2"	Pin	2-Jaw	Pistol	30-102	23-75	176	130	1.5	3.3	12.0	25
A	CP6031 HABAV	TO21885	7/16" hex	Quick Change	2-Jaw	Pistol	30-102	23-75	176	130	1.5	3.3	12.0	25
B	CP6300 RSR	TO25285	3/8"	Friction Ring	Single-Dog	Pistol	54-203	40-150	243	180	1.6	3.5	6.6	14
C	CP6041 HABAB	TO21888	1/2"	Pin	2-Jaw	Pistol	55-339	40-250	509	375	2.80	6.2	18.9	40
C	CP6041 HABAR	TO22331	1/2"	Friction Ring	2-Jaw	Pistol	55-339	40-250	509	375	2.80	6.2	18.9	40
D	CP6500 RS	TO25214	1/2"	Pin	Double-Dog	Pistol	140-480	103-354	710	525	2.65	5.8	11.8	25
D	CP6500 RSR	TO25216	1/2"	Friction Ring	Double-Dog	Pistol	140-480	103-354	710	525	2.65	5.8	11.8	25
D	CP6500 RSS	TO25215	7/16" hex	Quick Change	Double-Dog	Pistol	140-480	103-354	710	525	2.65	5.8	11.8	25
E	CP6540 RS	TO25312	1/2"	Pin	Rocking-Dog	Pistol	54-162	40-120	420	310	2.80	6.2	10.4	22
E	CP6540 RSR	TO25313	1/2"	Friction Ring	Rocking-Dog	Pistol	54-162	40-120	420	310	2.80	6.2	10.4	22
E	CP6540 RSS	TO25314	7/16" hex	Quick Change	Rocking-Dog	Pistol	54-162	40-120	310	230	2.80	6.2	10.4	22



Impact Wrench

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



A



B

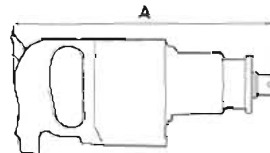
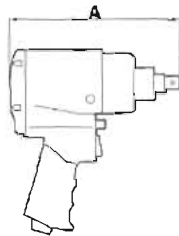


C



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
CP6610 GALED	343	13.5	54.1	2.13



ACCESSORIES INCLUDED

	CP0610	CP6110
• Support handle	C145892	C039423
• Support handle mount		C116388
• Support handle screws (4 off)		C127944

* Free speed

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	SOCKET RETAINER	CLUTCH TYPE	HANDLE STYLE	TORQUE WORKING		TORQUE MAX.		WEIGHT		AIR CONSUMPTION	
							Nm	ft lb	Nm	ft lb	kg	lb	l/s*	cfm*
A	CP6060 SASAB	TO24059	3/4"	Hole	2-Jaw	Pistol	265-880	195-650	1350	995	5.3	11.7	19.8	42
A	CP6060 SASAK	TO24060	1"	Hole	2-Jaw	Pistol	265-880	195-650	1350	995	5.4	11.9	19.8	42
A	CP6060 SASAR	TO24058	3/4"	Friction Ring	2-Jaw	Pistol	265-880	195-650	1350	995	5.4	11.9	19.8	42
B	CP6760 RS	TO25309	3/4"	Hole	2-Jaw	Pistol	245-810	180-600	1250	925	5.1	11.2	19.3	41
B	CP6760 RS1	TO25311	1"	Hole	2-Jaw	Pistol	245-810	180-600	1250	925	5.1	11.2	19.3	41
B	CP6760 RSR	TO26310	3/4"	Friction Ring	2-Jaw	Pistol	245-810	180-600	1250	925	5.1	11.2	19.3	41
C	CP6110 GASED	TO24425	1"	Hole	Twin Lobe	D Outside	510-1695	375-1250	2575	1900	9.75	21.5	25.0	53
C	CP6110 GASEL	TO24426	#5 Spline	Integral	Twin Lobe	D Outside	510-1695	375-1250	2575	1900	9.75	21.5	25.0	53
C	CP6110 PASED	TO25100	1"	Hole	Twin Lobe	D Inside Trigger	510-1695	375-1250	2575	1900	9.75	21.5	25.0	53
D	CP6610 GALED	TO18046	1"	Hole	3-Jaw	D Outside	270-1285	200-950	1630	1350	9.30	20.5	27.8	59

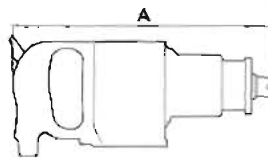
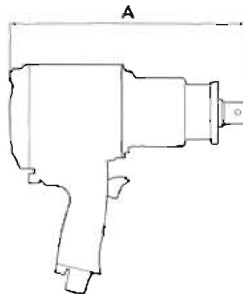


Impact Wrench

815 to 3250 (600 to 2400 ft.lb)



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 PASEL	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 PASEL	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			C119061
• Support handle screws (4 off)			P073025

* Free speed

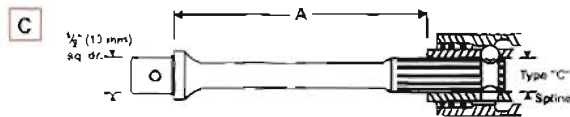
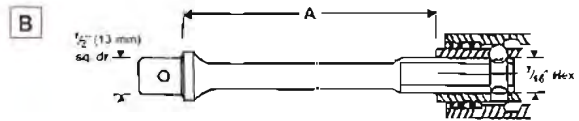
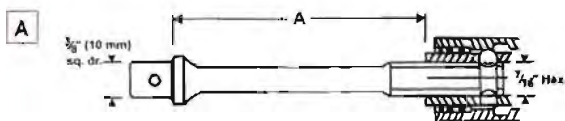
Air inlet: 1/2" NPT

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	SOCKET RETAINER	CLUTCH TYPE	HANDLE STYLE	TORQUE WORKING		TORQUE MAX.		WEIGHT		AIR CONSUMPTION	
							Nm	ft lb	Nm	ft lb	kg	lb	l/s*	cfm*
A	CP0611 GASED	TO22580	1"	Hole	2-Jaw	D Outside	1220-2440	900-1800	3790	2800	10.2	22.5	40.1	85
A	CP0611 GASEL	TO22581	#5 Spline	Integral	2-Jaw	D Outside	1220-2440	900-1800	3790	2800	10.2	22.5	40.1	85
A	CP0611 PASEL	TO22578	1"	Hole	2-Jaw	D Inside Trigger	1220-2440	900-1800	3790	2800	10.2	22.5	40.1	85
A	CP0611 PASEL	TO22579	#5 Spline	Integral	2-Jaw	D Inside Trigger	1220-2440	900-1800	3790	2800	10.2	22.5	40.1	85
B	CP6120 GASED	TO18237	1 1/2"	Hole	2-Jaw	D Outside	815-2710	600-2000	4740	3500	15.4	33.9	44.8	95
B	CP6120 GASEL	TO17755	#5 Spline	Integral	2-Jaw	D Outside	815-2710	600-2000	4740	3500	15.4	33.9	44.8	95
B	CP6120 PASEL	TO18841	1 1/2"	Hole	2-Jaw	D Inside Trigger	815-2710	600-2000	4740	3500	15.4	33.9	44.8	95
B	CP6120 PASEL	TO18235	#5 Spline	Integral	2-Jaw	D Inside Trigger	815-2710	600-2000	4740	3500	15.4	33.9	44.8	95
C	CP0614 GALED	TO20021	1 1/2"	Hole	2-Jaw	D Outside	1620-3250	1200-2400	5420	4000	14.3	31.5	44.8	95
C	CP0614 PALED	TO20022	1 1/2"	Hole	2-Jaw	D Inside Trigger	1620-3250	1200-2400	5420	4000	14.3	31.5	44.8	95
D	CP0611P RS	TO25413	1"	Hole	2-Jaw	Pistol	1220-2440	900-1800	3790	2800	10.5	23.1	40.1	85
D	CP0611P RLS	TO25414	#5 Spline	Integral	2-Jaw	Pistol	1220-2440	900-1800	3790	2800	10.5	23.1	40.1	85



Torque Controlled Accessories



PIC REF	PART NUMBER	NOMINAL NUMBER	COLOUR	TORQUE RANGE		LENGTH 'A'		PIC REF	PART NUMBER	NOMINAL NUMBER	COLOUR	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	Gm/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 15/16"
A	C112306	6	Purple	28-33	21-24	95	3 3/4"	A	C113412*		Tork Bar Kit				
A	C112307	7	Red/White	33-37	24-27	95	3 3/4"								

PIC REF	PART NUMBER	NUMBER	COLOUR	NOMINAL TORQUE RANGE SINGLE BLOW		LENGTH 'A'		PIC REF	PART NUMBER	NUMBER	COLOUR	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 3/16"	B	C113208	8	Or/White	68-75	50-55	110	4 3/16"
B	C113202	2	Orange	27-34	20-25	110	4 3/16"	B	C113209	9	Yel/White	75-81	55-60	110	4 3/16"
B	C113203	3	Yellow	34-41	25-30	110	4 3/16"	B	C113210	10	Gm/White	81-95	60-70	92	3 3/4"
B	C113204	4	Green	41-48	30-35	110	4 3/16"	B	C113211	11	Blue/White	95-109	70-80	67	2 5/8"
B	C113205	5	Blue	48-54	35-40	110	4 3/16"	B	C113212	12	Pur/White	109-122	80-90	41	1 5/8"
B	C113206	6	Purple	54-61	40-45	110	4 3/16"	B	C113765		Tork Bar Kit				
B	C113207	7	Red/White	61-68	45-50	110	4 3/16"								

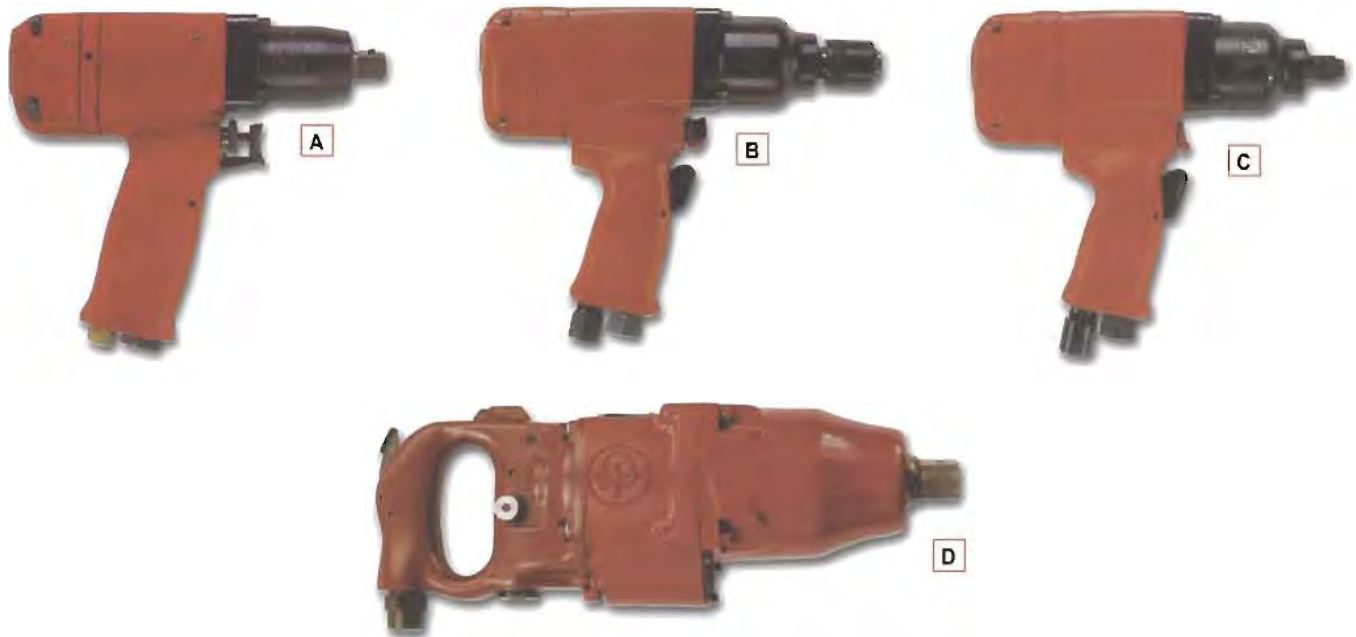
PIC REF	PART NUMBER	NUMBER	COLOUR	NOMINAL TORQUE RANGE SINGLE BLOW		LENGTH 'A'		PIC REF	PART NUMBER	NUMBER	COLOUR	NOMINAL TORQUE RANGE SINGLE BLOW		LENGTH 'A'	
				Nm	ft lb	mm	in.					Nm	ft lb	mm	in.
TYPE 'C' SPLINE DRIVE TORK BARS CP6041 TEBAD															
C	C051531	1	Red	20-27	15-20	4 3/16"	106	C	C051538	8	Or/White	68-75	50-55	4 3/16"	106
C	C051532	2	Orange	27-34	20-25	4 3/16"	106	C	C051539	9	Yel/White	75-81	55-60	4 3/16"	106
C	C051533	3	Yellow	34-41	25-30	4 3/16"	106	C	C051540	10	Gm/White	81-95	60-70	4 3/16"	106
C	C051534	4	Green	41-48	30-35	4 3/16"	106	C	C051541	11	Blue/White	95-109	70-80	4 3/16"	106
C	C051535	5	Blue	48-54	35-40	4 3/16"	106	C	C051542	12	Pur/White	109-122	80-90	4 3/16"	106
C	C051536	6	Purple	54-61	40-45	4 3/16"	106	C	C052329		Tool Bar Kit				
C	C051537	7	Red/White	61-68	45-50	4 3/16"	106								

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



Torque Controlled Tools

8 to 405 Nm (6 to 300 ft.lb)



Methods of Torque Control

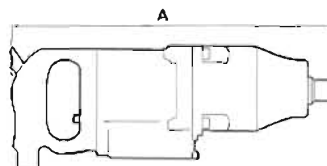
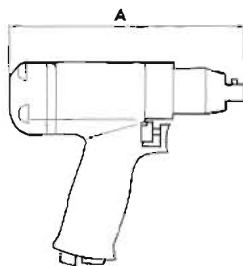
1. 'Close Coupled' Torque Control – socket attached directly to the output of the wrench

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 2 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

CP0610
C039423

* Free speed

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

Air Inlet: 1/4" NPT for A & B - 3/8" NPT for C - 1/2" NPT for 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	SOCKET RETAINER	CLUTCH TYPE	HANDLE STYLE	TORQUE MIN.		TORQUE MAX.		WEIGHT		AIR CONSUMPTION	
							Nm	ft lb	Nm	ft lb	kg	lb	l/s*	cfm*
A	CP6031 TEBAK	TO21951	1/2"	Pin	2-Jaw	Pistol	20	15	54	40	1.8	3.5	11.8	25
A	CP6031 TEBAV	TO21952	7/16" hex	Quick Change	2-Jaw	Pistol	8	6	47	35	1.7	3.7	11.8	25
B	CP6041 TEBAB	TO21953	1/2"	Pin	2-Jaw	Pistol	47	35	155	115	3.0	6.6	18.9	40
B	CP6041 TEBAD	TO21954	C Spline	Quick Change	2-Jaw	Pistol	20	15	120	90	3.1	6.8	18.9	40
B	CP6041 TEBAS	TO21955	7/16" hex	Quick Change	2-Jaw	Pistol	20	15	120	90	3.1	6.8	18.9	40
C	CP6060 TESAB	TO24176	3/4"	Hole	2-Jaw	Pistol	175	130	540	400	6.0	13.2	27.8	59
D	CP0610 TELUD	TO18056	1"	Hole	3-Jaw	D Outside	405	300	810	600	10.4	22.9	27.8	59

