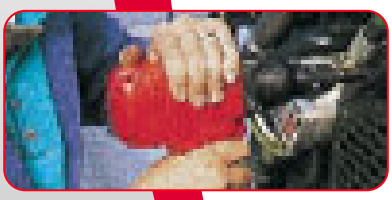
Impact Wrenches



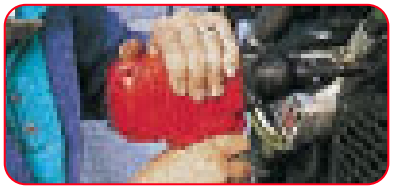
For 100 years, air-power has been pumping through our veins.

Since 1901, Chicago Pneumatic Tool Company has lived and breathed air tool technology. We've endured from our long-standing commitment to providing the highest quality air tools to the automotive, construction and industrial markets. This commitment has seen us through the past 100 years and guides us today with a focus on innovation, ergonomics and a dedication to service that is second to none. Building on a century of experience while moving confidently into the future, your needs will continue to be at the heart of Chicago Pneumatic.

Chicago Pneumatic

Contents

Contents



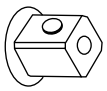
Chicago Pneumatic Impact Wrench Features

Ease of Service

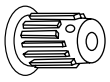
Simple 3 piece construction for ease and speed of servicing. Durable steel clutch housings (zinc option on some models).

Output Options

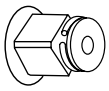
Socket retention options include:



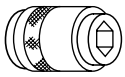
Pin Retainer
for infrequent socket change



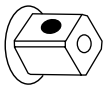
Integral Spline
with integral push button retainer



Friction Ring
for rapid socket change



Quick Change
for screwdriver bits or torsion bars



Hole
for pin and o ring type retention

Clutch Options

Chicago Pneumatic 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.

Handle Options

Choices of handles and trigger configuration depending on tool size

Pistol

D Outside Trigger

D Inside Trigger

Tool Selection

Criteria

1. **Application Type**
2. **Bolt Size/Torque**
3. **Joint Type**
4. **Handle Type**
5. **Socket Retention**

1. Application Type

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

General Duty – For use in general purpose and light/medium assembly applications with intermittent use and for maintenance.

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 with the same tool.

2. Bolt Size/Torque

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

BOLT SIZE	SAE GRADE 1 AND GRADE 2	SAE GRADE 5	ASTM-UNC GRADE 8/A490	ASTM-UNC A325
in.				
1/4"	3	8	11	
5/16"	6	16	22	
3/8"	11	28	38	
7/16"	18	46	61	
1/2"	28	70	94	
9/16"	43	110	135	
5/8"	55	140	188	200
3/4"	97	250	336	355
7/8"	155	405	541	570
1"	230	600	812	850
1 1/8"	340	770	1151	1060
1 1/4"	480	1080	1626	1495
1 3/8"	660	1470	2130	1960
1 1/2"	860	1950	2830	2600

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	CP6031
		CP6300	CP6300
		2014	2014
		2034	2034
1/2"		CP6041	CP6041
		CP6500	CP6500
	CP6540	CP6540	
			CP9541
3/4"		CP6060	CP6060
		CP6760	CP6760
	CP6700	CP6700	
			CP9561
1"		CP6110	CP6110
	CP0610	CP0610	CP0610
		CP0611	CP0611
		CP9596	CP9596
1 1/2"	CP0614	CP0614	CP0614
		CP6120	CP6120

4. Handle Type

- Straight
- Pistol
- D Handle – Trigger Inside
- D Handle – Trigger Outside

5. Socket Retention

See the tables on the following pages.

3/8" Drive

A

C

B

D

3/8" DRIVE – 6-150 ft lb

PICTURE REF	MODEL	PART NUMBER	DRIVE	SOCKET RETAINER	CLUTCH TYPE	HANDLE STYLE	TORQUE WORKING	TORQUE MAX.	AIR CONSUMPTION	OVERALL LENGTH	SIDE TO CENTER	WEIGHT
							ft lb	ft lb	cfm†	in.	in.	lb
Heavy Duty												
A	CP6031 HABAD	TO21887	3/8"	Pin	2-Jaw	Pistol	75	130	25	5.63	1.00	3.25
A	CP6031 HABAK	TO21884	1/2"	Pin	2-Jaw	Pistol	75	130	25	5.63	1.00	3.25
A	CP6031 HABAV	TO21885	7/16" hex	Quick Change	2-Jaw	Pistol	75	130	25	5.75	1.00	3.25
B	CP6300 RSR	TO25285	3/8"	Friction Ring	Single Dog	Pistol	40-150	180	14	6.00	1.25	3.50
General Duty												
C	2014	1464724	1/4" hex	Quick Change	Double Blow	Lever	22-34	40*	12	8.40	0.93	1.80
D	2034	1464734	1/4" hex	Quick Change	Double Blow	Pistol	6-35	40*	19	6.00	0.91	2.20

† *Free speed*
** Value is an estimation*
Torque ranges should be used as a guide only. Final torque will depend on the joint, operating pressure and drive accessories.
Air inlet 1/4" NPT.

Optional Accessories

Suspension Bails – CP6031 Horizontal, part no. C102687, Spring Suspension Balancer 5DU, part no. 50542
– 2014/2034, suspension bails included as standard, Spring Suspension Balancer 3DU, part no. 52862

1/2" Drive

A

B

C

D

A 2" extension anvil is available for the CP6500. 1/2" square drive with 2" extension, friction ring retainer – part no. CA148629.

1/2" DRIVE– 40-360 ft lb

PICTURE REF	MODEL	PART NUMBER	DRIVE	SOCKET RETAINER	CLUTCH TYPE	HANDLE STYLE	TORQUE WORKING	TORQUE MAX.	AIR CONSUMPTION	OVERALL LENGTH	SIDE TO CENTER	WEIGHT
							ft lb	ft lb	cfm†	in.	in.	lb
Heavy Duty												
A	CP6041 HABAB	T021888	1/2"	Pin	2-Jaw	Pistol	40-250	375	40	6.83	1.25	6
A	CP6041 HABAR	T022331	1/2"	Friction Ring	2-Jaw	Pistol	40-250	375	40	6.83	1.25	6
A	CP6041 HABAS	T021890	7/16" hex	Quick Change	2-Jaw	Pistol	40-250	375	40	8.13	1.25	6
B	CP6500 RS	T025214	1/2"	Pin	Double-Dog	Pistol	360	525	25	7	1.41	5.8
B	CP6500 RSR	T025216	1/2"	Friction Ring	Double-Dog	Pistol	360	525	25	7	1.41	5.8
B	CP6500 RSS	T025215	7/16" hex	Quick Change	Double-Dog	Pistol	360	525	25	7	1.41	5.8
C	CP6540 RS	T025312	1/2"	Pin	Rocking-Dog	Pistol	40-120	310	22	7.4	1.38	6.2
C	CP6540 RSR	T025313	1/2"	Friction Ring	Rocking-Dog	Pistol	40-120	310	22	7.4	1.38	6.2
C	CP6540 RSS	T025314	7/16" hex	Quick Change	Rocking-Dog	Pistol	40-120	230	22	7.4	1.38	6.2
General Duty												
D	CP9541 RS	T022162	1/2"	Pin	Pin	Pistol	20-180	275	16	6.63	1.32	5.5
D	CP9541 RSR	T022163	1/2"	Friction Ring	Pin	Pistol	20-180	275	16	6.63	1.32	5.5
D	CP9541 RSS	T022164	7/16" hex	Quick Change	Pin	Pistol	20-180	275	16	7.83	1.32	5.8

† *Free speed*

Torque ranges should be used as a guide only. Final torque will depend on the joint, operating pressure and drive accessories.
Air inlet – 1/4" NPT.
CP6500 – reverse torque 625 ft lb.

Optional Accessories

Suspension Bails – CP6041 Vertical, part no. C127495, Spring Suspension Balancer 10D, part no. 50052
– CP9541 Vertical, part no. C053667, Spring Suspension Balancer 10D, part no. 50052
– CP9541 Horizontal, part no. C127004, Spring Suspension Balancer 10D, part no. 50052

3/4" Drive

A

B

C

D

3/4" DRIVE – 75-650 ft lb

PICTURE REF	MODEL	PART NUMBER	DRIVE	SOCKET RETAINER	CLUTCH TYPE	HANDLE STYLE	TORQUE WORKING	TORQUE MAX.	AIR CONSUMPTION	OVERALL LENGTH	SIDE TO CENTER	WEIGHT
							ft lb	ft lb	cfm†	in.	in.	lb
Heavy Duty												
A	CP6060 SASAB	TO24059	3/4"	Hole	2-Jaw	Pistol	650	1000	59	7.63	1.78	11.6
A	CP6060 SASAK	TO24060	1"	Hole	2-Jaw	Pistol	650	1000	59	7.63	1.78	11.8
A	CP6060 SASAR	TO24058	3/4"	Friction Ring	2-Jaw	Pistol	650	1000	59	7.63	1.78	11.8
B	CP6760 RS	TO25309	3/4"	Hole	2-Jaw	Pistol	600	925	41	9.05	1.8	11.2
B	CP6760 RS1	TO25311	1"	Hole	2-Jaw	Pistol	600	925	41	9.05	1.8	11.2
B	CP6760 RSR	TO25310	3/4"	Friction Ring	2-Jaw	Pistol	600	925	41	9.05	1.8	11.2
General Duty												
C	CP6700 RS	TO25306	3/4"	Hole	Jumbo Dog	Pistol	600	950	39	8.9	1.8	12.6
C	CP6700 RS1	TO25308	1"	Hole	Jumbo Dog	Pistol	600	950	39	8.9	1.8	12.6
C	CP6700 RSR	TO25307	3/4"	Friction Ring	Jumbo Dog	Pistol	600	950	39	8.9	1.8	12.6
D	CP9561 RS	TO22235	3/4"	Hole	Pin	Pistol	75-500	750	35	8.5	1.75	10.5

† *Free speed*

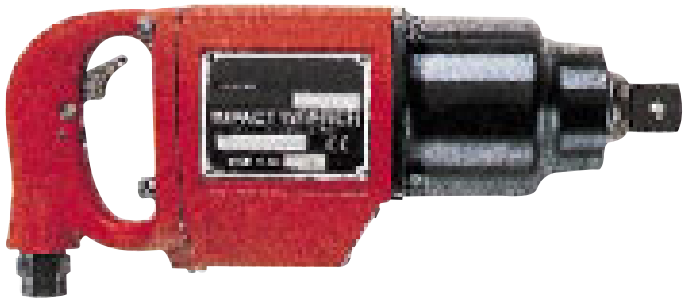
Torque ranges should be used as a guide only. Final torque will depend on the joint, operating pressure and drive accessories.
Air inlet – 3/8" NPT.

Optional Accessories

Suspension Bails – CP9561 Horizontal, part no. C126997, Spring Suspension Balancer 15D, part no. 50062

1" Drive

A



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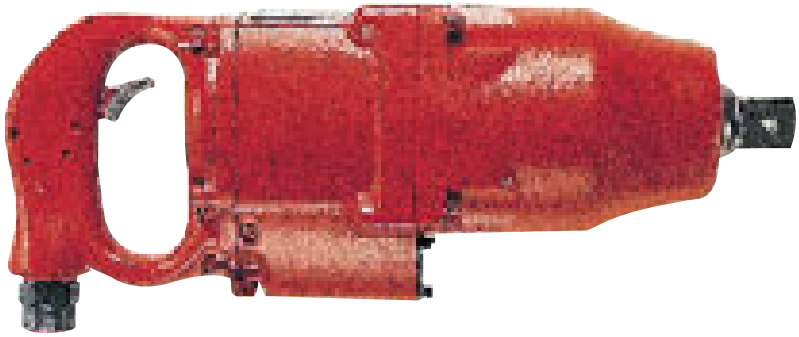


A 6" extension anvil is available for the CP6110. 1" square drive with 6" extension, friction ring retainer – part no. C144686.

1" DRIVE – 200-1250 ft lb

PICTURE REF	MODEL	PART NUMBER	DRIVE	SOCKET RETAINER	CLUTCH TYPE	HANDLE STYLE	TORQUE WORKING	TORQUE MAX.	AIR CONSUMPTION	OVERALL LENGTH	SIDE TO CENTER	WEIGHT
							ft lb	ft lb	cfm†	in.	in.	lb
Heavy Duty												
A	CP6110 GASED	TO24425	1"	Hole	Twin Lobe	D Outside	1250	1900	53	13	1.75	21.4
A	CP6110 GASEL	TO24426	#5 Spline	Integral	Twin Lobe	D Outside	1250	1900	53	13	1.75	21.4
A	CP6110 PASED	TO25100	1"	Hole	Twin Lobe	D Inside Trigger	1250	1900	53	13	1.75	21.4
A	CP6110 PASEL	TO25101	#5 Spline	Integral	Twin Lobe	D Inside Trigger	1250	1900	53	13	1.75	21.4
B	CP0610 GALED	TO18046	1"	Hole	3-Jaw	D Outside	200-950	1350	59	13.5	2.13	20.5
B	CP0610 GALEL	TO18041	#5 Spline	Integral	3-Jaw	D Outside	200-950	1350	59	14	2.13	20.5
B	CP0610 PALED	TO18253	1"	Hole	3-Jaw	D Inside Trigger	200-950	1350	59	13.5	2.13	20.5
B	CP0610 PALEL	TO18042	#5 Spline	Integral	3-Jaw	D Inside Trigger	200-950	1350	59	14	2.13	20.5

† *Free speed*

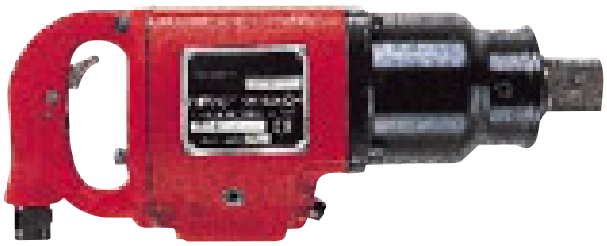
Torque ranges should be used as a guide only. Final torque will depend on the joint, operating pressure and drive accessories.

Air inlet – 1/2" NPT.

1"-1½" Drive

A

B



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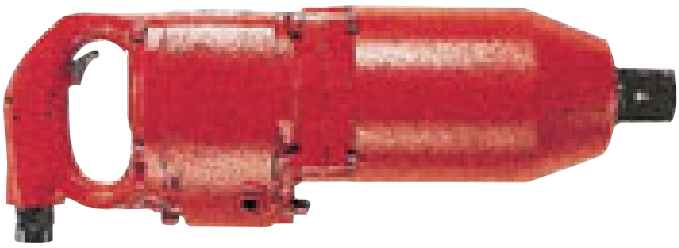


D

Support handles included with tools.

1"-1½" DRIVE – 280-2400 ft lb

PICTURE REF	MODEL	PART NUMBER	DRIVE	SOCKET RETAINER	CLUTCH TYPE	HANDLE STYLE	TORQUE WORKING	TORQUE MAX.	AIR CONSUMPTION	OVERALL LENGTH	SIDE TO CENTER	WEIGHT
							ft lb	ft lb	cfm†	in.	in.	lb
Heavy Duty												
A	CP0611 GASED	TO22580	1"	Hole	2-Jaw	D Outside	900-1800	2800	85	12.5	2.25	22.4
A	CP0611 GASEL	TO22581	#5 Spline	Integral	2-Jaw	D Outside	900-1800	2800	85	12.5	2.25	22.4
A	CP0611 PASED	TO22578	1"	Hole	2-Jaw	D Inside Trigger	900-1800	2800	85	12.5	2.25	22.4
A	CP0611 PASEL	TO22579	#5 Spline	Integral	2-Jaw	D Inside Trigger	900-1800	2800	85	12.5	2.25	22.4
B	CP6120 GASED	TO18237	1½"	Hole	2-Jaw	D Outside	2000	3500	95	14.75	2.31	33.8
B	CP6120 GASEL	TO17755	#5 Spline	Integral	2-Jaw	D Outside	2000	3500	95	14.75	2.31	33.8
B	CP6120 PASED	TO18841	1½"	Hole	2-Jaw	D Inside Trigger	2000	3500	95	14.75	2.31	33.8
B	CP6120 PASEL	TO18235	#5 Spline	Integral	2-Jaw	D Inside Trigger	2000	3500	95	14.75	2.31	33.8
C	CP0614 GALED	TO20021	1½"	Hole	2-Jaw	D Outside	1200-2400	4000	95	16.4	2.4	31.5
C	CP0614 PALED	TO20022	1½"	Hole	2-Jaw	D Inside Trigger	1200-2400	4000	95	16.4	2.4	31.5
General Duty												
D	CP9596 RS	TO20427	1"	Hole	2-Jaw	Pistol	280-1800	2800	48	9.5	2.25	20
D	CP9596 RLS	TO20428	#5 Spline	Integral	2-Jaw	Pistol	280-1800	2800	48	9.5	2.25	20

† *Free speed*

Torque ranges should be used as a guide only. Final torque will depend on the joint, operating pressure and drive accessories.
Air inlet – ½" NPT.

Optional Accessories

Suspension Bails – CP0614 Horizontal, part no. C095230, Spring Suspension Balancer CP2100 AFER, part no. TO07487

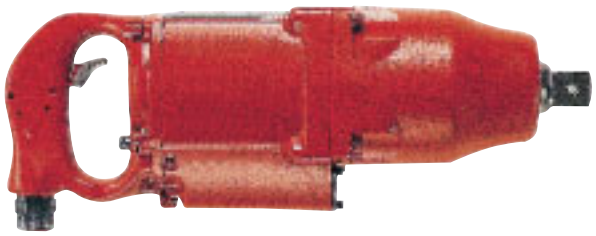
Torque Controlled Tools

A

B

C

D



TORQUE CONTROLLED

PICTURE REF	MODEL	PART NUMBER	DRIVE	SOCKET RETAINER	CLUTCH TYPE	HANDLE STYLE	TORQUE WORKING	TORQUE MAX.	AIR CON-SUMPTION	OVERALL LENGTH	SIDE TO CENTER	WEIGHT
							ft lb	ft lb	cfm†	in.	in.	lb
A	CP6031 TEBAK	TO21951	1/2"	Pin	2-Jaw	Pistol	15	40	25	6.25	1.375	6.6
A	CP6031 TEBAV	TO21952	7/16" hex	Quick Change	2-Jaw	Pistol	6	35	25	7.5	1.375	3.8
B	CP6041 TEBAB	TO21953	1/2"	Pin	2-Jaw	Pistol	35	115	40	8.3	1.25	9.6
B	CP6041 TEBAD	TO21954	C Spline	Quick Change	2-Jaw	Pistol	15	90	40	9.6	1.25	6.75
B	CP6041 TEBAS	TO21955	7/16" hex	Quick Change	2-Jaw	Pistol	15	90	40	9.6	1.25	6.75
C	CP6060 TESAB	TO24176	3/4"	Hole	2-Jaw	Pistol	130	400	59	9.44	2	13.2
C	CP6060 TESAK	TO21606	1"	Hole	2-Jaw	Pistol	130	400	59	9.44	2	13.2
C	CP6060 TESAT	TO21604	E Spline	Quick Change	2-Jaw	Pistol	100	300	59	10.94	2	13.4
D	CP0610 TELUD	TO18056	1"	Hole	3-Jaw	D Outside	300	600	59	15.4	2.125	23
D	CP0610 TELUL	TO18044	#5 Spline	Integral	3-Jaw	D Outside	300	600	59	15.4	2.125	23

† *Free speed*

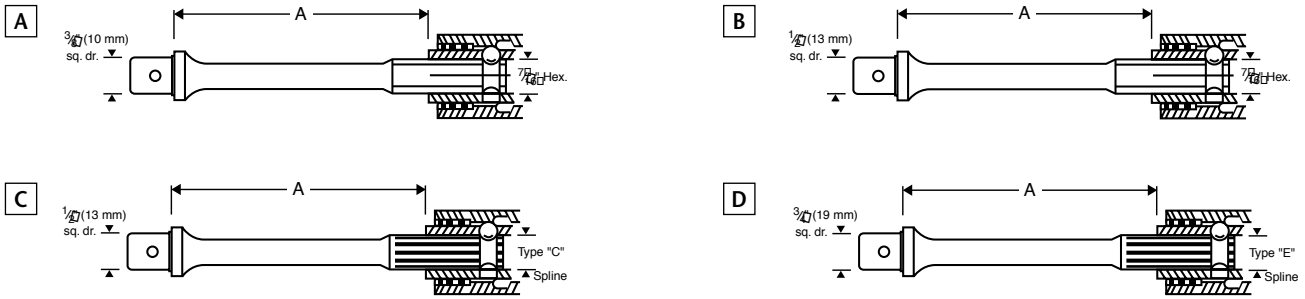
Torque ranges should be used as a guide only. Final torque will depend on the joint, operating pressure and drive accessories.
Air inlet – CP6031/CP6041 – 1/4" NPT, CP6060 – 3/8" NPT, CP0610 – 1/2" NPT.
CP0610-T – Lock out feature to override the shut-off, for "turn of the nut" fastening.

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. Tork bars are listed on page 12.

Torque Controlled Accessories



7/16" HEX. DRIVE TORK BARS CP6031 TEBAV

PIC REF	PART NUMBER	NOMINAL NUMBER	COLOR	TORQUE RANGE		LENGTH "A"		PIC REF	PART NUMBER	NOMINAL NUMBER	COLOR	TORQUE RANGE		LENGTH "A"	
				ft lb	Nm	in.	mm					ft lb	Nm	in.	mm
A	C112301	1	Red	8-10	11-14	3 3/4"	95	A	C112308	8	Or/White	27-30	37-41	3 3/4"	95
A	C112302	2	Orange	10-12	14-16	3 3/4"	95	A	C112309	9	Yel/White	30-34	41-46	3 7/16"	87
A	C112303	3	Yellow	12-15	16-20	3 3/4"	95	A	C112310*	10	Grn/White	34-38	46-52	3 7/16"	87
A	C112304	4	Green	15-18	20-24	3 3/4"	95	A	C112311*	11	Blue/White	38-42	52-57	3 7/16"	87
A	C112305	5	Blue	18-21	24-28	3 3/4"	95	A	C112312*	12	Pur/White	42-46	57-62	1 15/16"	49
A	C112306	6	Purple	21-24	28-33	3 3/4"	95	A	C113412*			Tork Bar Kit			
A	C112307	7	Red/White	24-27	33-37	3 3/4"	95								

7/16" HEX. DRIVE TORK BARS CP6041 TEBAS

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

TYPE "C" SPLINE DRIVE TORK BARS CP6041 TEBAD

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

TYPE "E" SPLINE DRIVE TORK BARS CP6060 TESAT

PIC REF	PART NUMBER	NUMBER	COLOR	NOMINAL TORQUE RANGE		LENGTH "A"		PIC REF	PART NUMBER	NUMBER	COLOR	NOMINAL TORQUE RANGE		LENGTH "A"	
				ft lb	Nm	in.	mm					ft lb	Nm	in.	mm
D	C059901	1	Red	100-110	136-149	5 9/16"	141	D	C059908	8	Or/White	170-180	230-244	5 9/16"	141
D	C059902	2	Orange	110-120	149-163	5 9/16"	141	D	C059909	9	Yel/White	180-210	244-285	2 5/8"	67
D	C059903	3	Yellow	120-130	163-176	5 9/16"	141	D	C059910	10	Grn/White	210-240	285-325	2 5/8"	67
D	C059904	4	Green	130-140	176-190	5 9/16"	141	D	C059911	11	Blue/White	240-270	325-366	2 5/8"	67
D	C059905	5	Blue	140-150	190-203	5 9/16"	141	D	C059912	12	Pur/White	270-300	366-407	2 5/8"	67
D	C059906	6	Purple	150-160	203-217	5 9/16"	141	D	C101075			Tork Bar Kit			
D	C059907	7	Red/White	160-170	217-230	5 9/16"	141								

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.

Noise and Vibration Values

MODEL	NOISE LEVEL	SOUND POWER	VIBRATION	MODEL	NOISE LEVEL	SOUND POWER	VIBRATION
	dB(A)	dB(A)	ms^{-2}		dB(A)	dB(A)	ms^{-2}
CP6031 HABAD	88	98	4.3	CP6110 GASEL	91	101	10.5
CP6031 HABAK	88	98	4.3	CP6110 PASED	91	101	10.5
CP6031 HABAV	88	98	4.3	CP6110 PASEL	91	101	10.5
CP6300 RSR	95	105	4.3	CP0610 GALED	93	103	6.4
2014	72	83	5.0	CP0610 GALEL	93	103	6.4
2034	80	91	3.6	CP0610 PALED	93	103	6.4
CP6041 HABAB	90	100	5.7	CP0610 PALEL	93	103	6.4
CP6041 HABAR	90	100	5.7	CP6120 GASED	102	112	12.4
CP6041 HABAS	90	100	5.7	CP6120 GASEL	102	112	12.4
CP6500 RS	96	106	4.4	CP6120 PASED	102	112	12.4
CP6500 RSR	96	106	4.4	CP6120 PASEL	102	112	12.4
CP6500 RSS	96	106	4.4	CP0611 GASED	97	107	10.9
CP6540 RS	97	107	6.9	CP0611 GASEL	97	107	10.9
CP6540 RSR	97	107	6.9	CP0611 PASED	97	107	10.9
CP6540 RSS	97	107	6.9	CP0611 PASEL	97	107	10.9
CP9541 RS	92	102	2.7	CP0614 GALED	97	107	9.5
CP9541 RSR	92	102	2.7	CP0614 PALED	97	107	9.5
CP9541 RSS	92	102	2.7	CP9596 RS	101	111	13.0
CP6060 SASAB	95	105	8.0	CP9596 RLS	101	111	13.0
CP6060 SASAK	95	105	8.0	CP6031 TEBAK	88	98	4.3
CP6060 SASAR	95	105	8.0	CP6031 TEBAV	88	98	4.3
CP6760 RS	100	110	7.4	CP6041 TEBAB	90	100	5.7
CP6760 RS1	100	110	7.4	CP6041 TEBAD	90	100	5.7
CP6760 RSR	100	110	7.4	CP6041 TEBAS	90	100	5.7
CP6700 RS	97	107	7.6	CP6060 TESAB	95	105	8.0
CP6700 RS1	97	107	7.6	CP6060 TESAK	95	105	8.0
CP6700 RSR	97	107	7.6	CP6060 TESAT	95	105	8.0
CP9561 RS	100	110	5.1	CP0610 TELUD	93	103	6.4
CP6110 GASED	91	101	10.5	CP0610 TELUL	93	103	6.4

Vibration measured in accordance with ISO8662-7. Noise levels measured in accordance with CAGI-PNEUROP test code or PNEUROP PN8NTC1.2 (all ± 3dB(A)).

Accessories

For further information on Ergonomics and Workplace Design ask for Desoutter publication LT198

For the complete range of Chicago Pneumatic accessories including sockets, retainers and extensions, please ask for catalog LT1393.

Safety Instructions

General Safety Instructions for the Operation of Power Tools

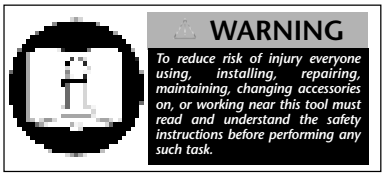
The goal of Chicago Pneumatic and Desoutter is to produce tools that help the operator work safely and efficiently.

The most important safety device for this or any other tool is the operator. Care and good judgement are the best protection against injury.

All possible hazards cannot be covered here, but we have tried to highlight some of the important ones.

Individuals should look for and obey Caution, Warning and Danger signs placed on tools, and displayed in the workplace. Operators should read and follow safety instructions packed with each tool. For a copy of these instructions, contact your local Desoutter representative.

Learn how each tool works. Even if you have previously used similar tools, carefully check out each tool before you use it. Get the 'feel' of it and know its capabilities, limitations, potential hazards, how it operates and how it stops.



All tools are designed to operate at a line pressure of 6.3 bar +/- 0.15bar in accordance with ISO2787.

Sound levels +/- 3dB(A)* measured in accordance with CAGI-PNEUROP test code or PNEUROP PN8NTC1.2. Vibration values* measured in accordance with ISO 8662.

*These declared values were obtained by laboratory testing in compliance with stated standards and are not adequate for risk assessments. Values measured in individual work places may be higher than the declared values. The actual exposure values and risk of harm experienced by an individual are unique and depend upon the way the user works, the workpiece and the work station design, as well as upon the exposure time and the physical condition of the user. We Desoutter cannot be held liable for the consequences of using declared values, instead of values reflecting the actual exposure, in an individual risk assessment in a work place situation over which we have no control.

Tools are CE marked to comply with European Machinery Directive.

Specifications subject to change without prior notice.

Further occupational health and safety information can be obtained from the following web sites
http://www.osha.gov (USA)
http://europe.osha.eu.int (Europe).

Compressed Air Hazards

- Air under pressure can cause injury. Never point an air hose at yourself or anyone else. Never blow your clothes free of dust with compressed air. Always direct exhaust air away from yourself and others in the work area.
- Always check for damaged or loose hoses and fittings before using an air tool, and replace if necessary. Whipping hoses can cause serious injury.
- Disconnect the tool from the air supply when not in use, before changing accessories, setting the torque, or when making repairs.
- Do not exceed rated air pressure to increase the output of the tool. This could cause injury and shorten tool life.
- Do not assemble quick coupler on the tool. Vibration can cause breakage resulting in a whipping air hose. Instead, use quick couplers on the end of a short leader hose.
- When universal twist couplings are used, lock pins must be installed to prevent accidental hose disconnection.
- Air tools are not intended for use in explosive atmospheres and are not insulated for contact with electric power sources.

Projectile Hazards

- Always wear impact resistant eye and face protection when involved with or near the operation or repair of tools.

Breathing Hazards

- Proper breathing protection must be worn when working with materials, which produce airborne particles.

Noise Hazards

- Hearing loss can result from prolonged exposure to excessive sound levels.
- Use hearing protection as recommended by your employer or Occupational Health and Safety Regulations.

Vibration Hazards

- Repetitive work motions, awkward positions, and exposure to vibration may be harmful to your hands and arms.
- If numbness, tingling, pain or whitening of the skin occurs, stop using tool and consult a physician.

Entanglement Hazards

- To reduce the risk of injury from entanglement, do not wear loose clothing when using rotating accessories.

Additional Hazards

- Slip/Trip/Fall is a major cause of serious injury or death. Beware of excessive hose/cord left on the walking or work surface.
- Operators and maintenance personnel must be physically fit to perform job tasks, and handle the bulk, weight and power of the tool.
- Deburring tools should be used to reduce the risk of cuts and abrasions due to burrs.
- Wear gloves to protect hands from sharp edges.

In addition to the General Safety Instructions, the following are safety instructions and warnings that apply to the safe operation of impact wrenches.

Impact Wrenches

- Never use hand sockets. Use only impact sockets in good condition. Sockets in poor condition reduce impact power and could also shatter, resulting in personal injury.
- Never operate the tool off the work. It may run too fast and cause the accessory to be thrown from the tool.
- Always use the simplest hook up possible. Long springy extension bars and adapters absorb impact power and could break loose resulting in personal injury. Instead, use deep sockets wherever possible.
- For tools using the pin and o-ring socket retainer, use the o-ring to securely retain the socket pin.
- Injury can result from over-torqued fasteners breaking, or from under-torqued fasteners undoing. Released assemblies can become projectiles. Assemblies requiring a specific torque must be checked using a torque meter.

Other Products

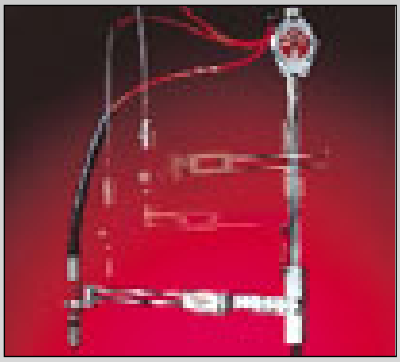
Drills

Pneumatic Motors

Auto Feed Drills and Tappers

Fastening Tools

Installation Accessories



Compression Riveting Tools

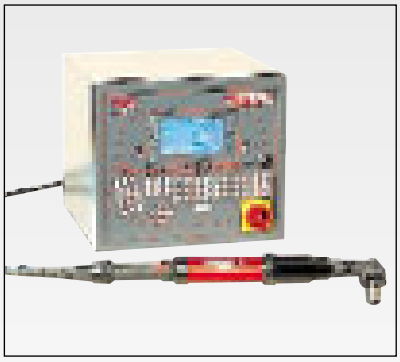
Vertical Grinders

Grinders

Sanders

Measuring Units

Electric Nutrunners



Assembly Systems