

Choosing the Right Drill

Choosing the right Drill



- **High power**
- **Durable – long life**
- **High precision**
- **Ergonomic**

Pistol Grip Drills

- Ideal for all general industrial drilling tasks
- Drilling capacity up to 1/2" Ø steel
- Best ergonomic shape – single and double handed use
- Use of side handle recommended for larger drills with high torque reaction

Straight Drills

- Mainly smaller diameter drilling less than 5/16" Ø steel
- Favored for vertical drilling
- Suitable for production line repetitive operation

Angle Drills

- Most commonly used in aerospace
- Ideal for restricted access application
- Drill capacity up to 5/16" Ø steel

Choosing the right Chuck

Key Adjustable Chuck

- Ideal for all general industrial drilling tasks
- High precision keyed chucks

Keyless Chucks

- Quick change (hand operated) chuck
- General purpose use

Collet Chuck

- Generally high speed drilling
- High precision
- Most commonly used in aerospace




Threaded Spindle

- Female threaded output
- Use with threaded shank drills
- Most commonly used in aerospace





Drill Selection Guide

PISTOL GRIP

TOOL TYPE	FREE SPEED	TITANIUM	STAINLESS STEEL	HARD CAST IRON, MEDIUM HARD STEEL	SOFT CAST IRON, MILD STEEL	HARD PLASTICS	ALUMINIUM, BRASS, COPPER, BRONZE	COMPOSITE	WOOD, SOFT PLASTICS, CHIPBOARD
	r/min		30-50ft/min	30-65ft/min	65-115ft/min	100-130ft/min	165-265ft/min	165-330ft/min	260-400ft/min
Drill Ø (in.)									
C22-P (Ø 1/4" - 6.5mm cap.) 	22600	-	-	-	-	-	5/64"	5/32"	5/64"
	12400	-	-	-	-	-	1/8"	-	1/8"
	6800	-	-	-	-	-	5/32"	3/16"	-
	4600	-	-	-	-	1/8"	1/4"	-	-
	3300	-	-	-	1/8"	3/16"	-	-	-
	2000	-	-	1/8"	1/4"	-	-	-	-
	1000	-	3/16"	1/4"	-	-	-	-	-
	500	1/8"	-	-	-	-	-	-	-
D22/23-P (Ø 5/16" - 8mm cap.) 	20000	-	-	-	-	-	-	5/32"	5/64"
	10500	-	-	-	-	-	5/64"	-	5/32"
	6000	-	-	-	-	-	5/32"	3/16"	1/4"
	4600	-	-	-	-	1/8"	1/4"	-	5/16"
	2900	-	-	-	5/32"	3/16"	5/16"	-	-
	1800	-	1/8"	5/32"	1/4"	5/16"	-	-	-
	1100	-	5/32"	1/4"	5/16"	-	-	-	-
	700	1/8"	9/32"	5/16"	-	-	-	-	-
400	1/4"	5/16"	-	-	-	-	-	-	
DR750 (Ø 5/16" - 1/2" 8-13mm cap.) 	6000	-	-	-	-	-	5/32"	3/16"	1/4"
	4100	-	-	-	-	1/8"	1/4"	5/16"	3/8"
	3300	-	-	-	1/8"	5/32"	5/16"	3/8"	1/2"
	2700	-	-	1/8"	5/32"	3/16"	3/8"	1/2*	19/32**
	1300	-	5/32"	3/16"	11/32"	7/16**	3/4**	-	13/16**
	750	1/8"	9/32"	5/16"	19/32**	3/4**	13/16**	-	-

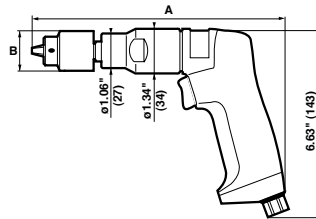
* above standard chuck capacity

STRAIGHT CASE

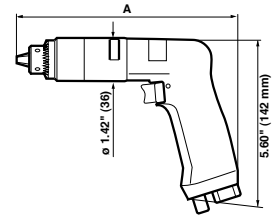
TOOL TYPE	FREE SPEED	TITANIUM	STAINLESS STEEL	HARD CAST IRON, MEDIUM HARD STEEL	SOFT CAST IRON, MILD STEEL	HARD PLASTICS	ALUMINIUM, BRASS, COPPER, BRONZE	COMPOSITE	WOOD, SOFT PLASTICS, CHIPBOARD
	r/min		30-50ft/min	30-65ft/min	65-115ft/min	100-130ft/min	165-265ft/min	165-330ft/min	260-400ft/min
Drill Ø (in.)									
C22-L (Ø 1/4" - 6.5mm cap.) 	22600	-	-	-	-	-	5/64"	5/32"	5/64"
	12400	-	-	-	-	-	1/8"	-	1/8"
	6800	-	-	-	-	-	5/32"	3/16"	-
	3300	-	-	-	1/8"	3/16"	-	-	-
	2000	-	-	1/8"	1/4"	-	-	-	-
	1000	-	3/16"	1/4"	-	-	-	-	-
	500	1/8"	-	-	-	-	-	-	-
	D22/23-L (Ø 5/16" - 8mm cap.) 	20000	-	-	-	-	-	-	5/32"
10000		-	-	-	-	-	5/64"	-	5/32"
5700		-	-	-	-	-	5/32"	3/16"	1/4"
4400		-	-	-	-	1/8"	1/4"	-	5/16"
2800		-	-	-	5/32"	3/16"	5/16"	-	-
1750		-	1/8"	5/32"	1/4"	5/16"	-	-	-
1050		1/8"	5/32"	1/4"	5/16"	-	-	-	-
400		1/4"	5/16"	5/16"	-	-	-	-	-

Accessories

Model	A		B	
	in.	mm	in.	mm
C220-P-22600	7.16	182	0.66	22
C220-P-12400	7.80	198	0.66	22
C22-P-6800	7.60	193	1.18	30
C22-P-4600	8.23	209	1.18	30
C22-P-3300	7.60	193	1.18	30
C22-P-2000	8.23	209	1.18	30
C22-P-1000	8.23	209	1.18	30
C22-P-500	8.23	209	1.18	30



Model	A	
	in.	mm
D22-P-20000	6.65	169
D22-P-10500	8.27	210
D23-P-6000	6.89	175
D23-P-4600	6.89	175
D23-P-2900	7.89	175
D23-P-1800	7.76	197
D23-P-1100	7.76	197
D23-P-700	6.89	175
D23-P-400	6.89	175



C220-P-.. / C22-P-.. / D22-P-.. / D23-P-..

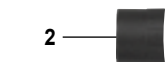
ACCESSORIES INCLUDED

ITEM	PART NUMBER			
	C220	C22	D22	D23
1 Chuck threaded $\frac{5}{16}$ UNF capacity $\frac{5}{32}$ " - 4mm (with key)	103082			
• Chuck key	29932			
1 Chuck threaded $\frac{3}{8}$ UNF capacity $\frac{1}{4}$ " - 6.5mm (with key)		28942		
• Chuck key		29182		
1 Chuck threaded $\frac{3}{8}$ UNF capacity $\frac{5}{16}$ " - 8mm (without key)				410203
• Chuck key				410213
1 Chuck (Jacobs No. 1 taper) capacity $\frac{1}{4}$ " - 6.5mm (with key)			29492	
• Chuck key			29182	
2 Chuck Guard		252993	252993	

OPTIONAL ACCESSORIES

ITEM	C220	C22	D22	D23
3 Keyless Chuck threaded $\frac{3}{8}$ UNF capacity $\frac{5}{16}$ " - 8mm		473433		473433
4 Chuck Guard	393793	393793		
5 Dust extraction kit	53242*	53242*	53242	53242
6 Side Handle	359623	359623	70442	70442
7 Offset Exhaust			77722	77722
8 Suspension Shackle (for horizontal tool suspension)	95842	95842	70082	70082
9 Chuck threaded $\frac{3}{8}$ UNF capacity $\frac{3}{8}$ " - 10mm				29042
• Chuck key				29232

* Note: C220 & C22 require chuck guard 393793 to be fitted



Pistol Grip Drills

0.3 - 0.38 Hp (0.2 - 0.28 kW) - 400 to 22600 r/min



A



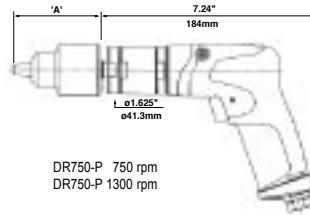
B

Air inlet: 1/4" BSP/NPT. Vibration level: <math><2.5 \text{ m/s}^2</math>.

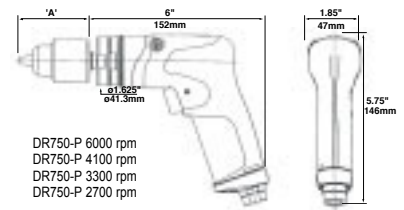
PICTURE REF	MODEL	PART NUMBER	FREE SPEED		CHUCK SIZE		MOTOR POWER		STALL TORQUE		WEIGHT		AIR FLOW		MIN HOSE BORE		SOUND LEVEL
			r/min		in.	mm	Hp	kW	In lb	Nm	lb	kg	cfm	l/s	in.	mm	dB(A)
TRIGGER START – C SERIES																	
A	C220-P-22600	1443014	22600		5/32	4.0	0.30	0.20	2.7	0.3	1.52	0.69	16	7.8	1/4	6	75
A	C220-P-12400	1443024	12400		5/32	4.0	0.30	0.20	5.3	0.6	1.70	0.77	16	7.8	1/4	6	75
A	C22-P-6800	1443034	6800		1/4	6.5	0.30	0.20	9.7	1.1	1.67	0.76	16	7.8	1/4	6	75
A	C22-P-4600	1464844	4600		1/4	6.5	0.30	0.20	15.0	1.7	1.85	0.84	16	7.8	1/4	6	75
A	C22-P-3300	1443044	3300		1/4	6.5	0.30	0.20	19.5	2.2	1.67	0.76	16	7.8	1/4	6	75
A	C22-P-2000	1443064	2000		1/4	6.5	0.30	0.20	31.0	3.5	1.85	0.84	16	7.8	1/4	6	75
A	C22-P-1000	1443074	1000		1/4	6.5	0.30	0.20	62.8	7.1	1.85	0.84	16	7.8	1/4	6	75
A	C22-P-500	1443084	500		1/4	6.5	0.30	0.20	129.2	14.6	1.85	0.84	16	7.8	1/4	6	75
TRIGGER START – D SERIES																	
B	D22-P-20000	1289974	20000		1/4	6.5	0.38	0.28	8.9	1.0	1.76	0.80	18	8.5	3/8	10	78
B	D22-P-10500	1289894	10500		1/4	6.5	0.38	0.28	8.9	1.0	1.98	0.90	18	8.5	3/8	10	78
B	D23-P-6000	1364374	6000		5/16	8.0	0.38	0.28	17.7	2.0	1.98	0.90	18	8.5	3/8	10	78
B	D23-P-4600	1364454	4600		5/16	8.0	0.38	0.28	17.7	2.0	1.98	0.90	18	8.5	3/8	10	78
B	D23-P-2900	1364534	2900		5/16	8.0	0.38	0.28	26.6	3.0	1.98	0.90	18	8.5	3/8	10	78
B	D23-P-1800	1364794	1800		5/16	8.0	0.38	0.28	44.3	5.0	2.42	1.10	18	8.5	3/8	10	78
B	D23-P-1100	1364874	1100		5/16	8.0	0.38	0.28	79.7	9.0	2.42	1.10	18	8.5	3/8	10	78
B	D23-P-700	1364954	700		5/16	8.0	0.38	0.28	132.8	15.0	2.42	1.10	18	8.5	3/8	10	78
B	D23-P-400	1365004	400		5/16	8.0	0.38	0.28	212.0	24.0	2.42	1.10	18	8.5	3/8	10	78

Accessories

Chuck Designation	A	
	in.	mm
C13	2.40	61
C10	2.05	52
C8	1.69	43
K10	2.79	71
K8	2.36	60



DR750-P 750 rpm
DR750-P 1300 rpm



DR750-P 6000 rpm
DR750-P 4100 rpm
DR750-P 3300 rpm
DR750-P 2700 rpm

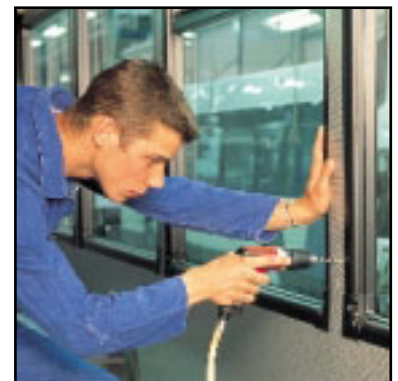
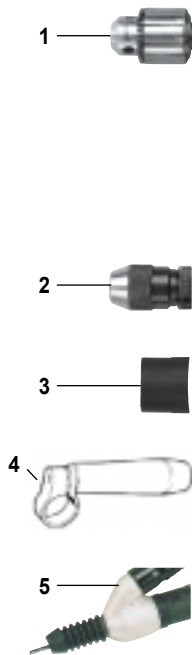
DR750-P...C. / DR750-P...K.

ACCESSORIES INCLUDED

ITEM	PART NUMBER				
	DR750...C8	DR750...C10	DR750...C13	DR750...K8	DR750...K10
1	Chuck threaded 3/8 UNF capacity 5/16" - 8mm (without key)	410203			
	• Chuck key	410213			
1	Chuck threaded 3/8 UNF capacity 3/8" - 10mm (with key)	29042			
	• Chuck key	29232			
1	Chuck threaded 3/8 UNF capacity 1/2" - 13mm (with key)	473113			
	• Chuck key	29242			
2	Keyless Chuck threaded 3/8 UNF capacity 5/16" - 8mm	473433			
	• Keyless Chuck threaded 3/8 UNF capacity 3/8" - 10mm	473423			
3	Chuck Guard	473143	473133		
4	Side Handle	473173	473173	473173	473173
	• Suspension Bail	473153	473153	473153	473153

OPTIONAL ACCESSORIES

ITEM	PART NO.
5 Dust extraction kit	475033



Pistol Grip Drills

High Power Drill 1 Hp (0.75 kW) - 750 to 6000 r/min



A



D



B



E



C



C

(Shown with side handle fitted)

Air Inlet: 1/4" BSP/NPT. Vibration level: <math><2.5 \text{ m/s}^2</math>

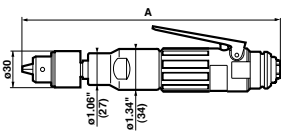
PICTURE REF	MODEL	PART NUMBER	FREE SPEED	CHUCK SIZE		MOTOR POWER		STALL TORQUE		WEIGHT		AIR FLOW		MIN HOSE BORE		SOUND LEVEL
			r/min	in.	mm	Hp	kW	in lb	Nm	lb	kg	cfm	l/s	in.	mm	dB(A)
A	DR750-P6000-C8	1465124	6000	5/16	8	1.00	0.75	46	5.3	2.42	1.1	30	14	3/8	10	81
A	DR750-P4100-C8	1465114	4100	5/16	8	1.00	0.75	63	7.1	2.42	1.1	30	14	3/8	10	81
B	DR750-P3300-C10	1465104	3300	3/8	10	1.00	0.75	85	9.6	2.42	1.1	30	14	3/8	10	81
B	DR750-P2700-C10	1465094	2700	3/8	10	1.00	0.75	99	11.1	2.42	1.1	30	14	3/8	10	81
C	DR750-P1300-C10	1465084	1300	3/8	10	1.00	0.75	211	23.9	3.52	1.6	30	14	3/8	10	81
C	DR750-P750-C13	1465074	750	1/2	13	1.00	0.75	362	41.0	3.52	1.6	30	14	3/8	10	81

TRIGGER START - KEYLESS CHUCK MODELS

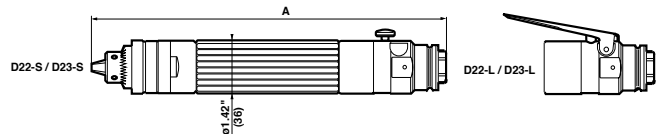
D	DR750-P6000-K8	1465164	6000	5/16	8	1.00	0.75	46	5.3	2.42	1.1	30	14	3/8	10	81
D	DR750-P4100-K8	1465154	4100	5/16	8	1.00	0.75	63	7.1	2.42	1.1	30	14	3/8	10	81
E	DR750-P3300-K10	1465144	3300	3/8	10	1.00	0.75	85	9.6	2.42	1.1	30	14	3/8	10	81
E	DR750-P2700-K10	1465134	2700	3/8	10	1.00	0.75	99	11.1	2.42	1.1	30	14	3/8	10	81

Accessories

Model	A	
	in.	mm
C220-L-22600	7.68	195
C220-L-12400	8.31	211
C22-L-6800	8.11	206
C22-L-3300	8.11	206
C22-L-2000	8.74	222
C22-L-1000	8.74	222
C22-L-500	8.74	222



Model	A	
	in.	mm
D22-L/S-20000	8.34	212
D22-L/S-10000	9.96	253
D23-L-5700	8.58	218
D23-L/S-4400	8.58	218
D23-L/S-2800	8.58	218
D23-L/S-1750	9.45	240
D23-L/S-1050	9.45	240
D23-L/S-400	9.45	240



C220-L-.. / C22-L-.. / D22-L-.. / D23-L-.. / D22-S-.. / D23-S-..

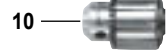
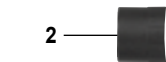
ACCESSORIES INCLUDED

ITEM	PART NUMBER			
	C220	C22	D22	D23
1 Chuck threaded $\frac{5}{16}$ UNF capacity $\frac{5}{32}$ " - 4mm (with key)	103082			
• Chuck key	29932			
1 Chuck threaded $\frac{3}{8}$ UNF capacity $\frac{1}{4}$ " - 6.5mm (with key)		28942		
• Chuck key		29182		
1 Chuck threaded $\frac{3}{8}$ UNF capacity $\frac{5}{16}$ " - 8mm (without key)				410203
• Chuck key				410213
1 Chuck (Jacobs No. 1 taper) capacity $\frac{1}{4}$ " - 6.5mm (with key)			29492	
• Chuck key			29182	
2 Chuck Guard			252993	252993
• Clamp Ring – exhaust hose	235203	235203	235203	235203

OPTIONAL ACCESSORIES

ITEM	C220	C22	D22	D23
3 Keyless Chuck threaded $\frac{3}{8}$ " x 24 UNF capacity $\frac{5}{16}$ " - 8mm		473433		473433
4 Chuck Guard	393793	393793		
5 Dust extraction kit	53242*	53242*	53242	53242
6 Side Handle	359623	359623	70442	70442
7 Suspension Bail (for vertical tool suspension)	39433	39433	39433	39433
8 Suspension Shackle (for horizontal tool suspension)			70082	70082
9 Offset Exhaust			77722	77722
10 Chuck threaded $\frac{3}{8}$ UNF capacity $\frac{3}{8}$ " - 10mm				29042
• Chuck key				29232

* Note: C220 & C22 require chuck guard 393793 to be fitted



Straight Grip Drills

0.3 - 0.38 Hp (0.2 - 0.28 kW) - 400 to 22600 r/min



A



B



C

Air inlet: 1/4" BSP/NPT. Vibration level: <math><2.5 \text{ m/s}^2</math>.

PICTURE REF	MODEL	PART NUMBER	FREE SPEED	CHUCK SIZE		MOTOR POWER		STALL TORQUE		WEIGHT		AIR FLOW		MIN HOSE BORE		SOUND LEVEL
			r/min	in.	mm	Hp	kW	in lb	Nm	lb	kg	cfm	l/s	in.	mm	dB(A)
LEVER START – C SERIES																
A	C220-L-22600	1443094	22600	5/32	4.0	0.30	0.20	2.7	0.3	1.21	0.55	16	7.8	1/4	6	76
A	C220-L-12400	1443104	12400	5/32	4.0	0.30	0.20	5.3	0.6	1.39	0.63	16	7.8	1/4	6	76
A	C22-L-6800	1443114	6800	1/4	6.5	0.30	0.20	9.7	1.1	1.37	0.62	16	7.8	1/4	6	76
A	C22-L-3300	1443134	3300	1/4	6.5	0.30	0.20	19.5	2.2	1.37	0.62	16	7.8	1/4	6	76
A	C22-L-2000	1443144	2000	1/4	6.5	0.30	0.20	31.0	3.5	1.54	0.70	16	7.8	1/4	6	76
A	C22-L-1000	1443154	1000	1/4	6.5	0.30	0.20	62.8	7.1	1.54	0.70	16	7.8	1/4	6	76
A	C22-L-500	1443164	500	1/4	6.5	0.30	0.20	129.2	14.6	1.54	0.70	16	7.8	1/4	6	76
LEVER START – D SERIES																
B	D22-L-20000	1253134	20000	1/4	6.5	0.38	0.28	8.9	1.0	1.48	0.67	20	9.4	3/8	10	77
B	D22-L-10000	1253394	10000	1/4	6.5	0.38	0.28	8.9	1.0	1.65	0.75	20	9.4	3/8	10	77
B	D23-L-5700	1362914	5700	5/16	8.0	0.38	0.28	17.7	2.0	1.54	0.70	20	9.4	3/8	10	77
B	D23-L-4400	1363144	4400	5/16	8.0	0.38	0.28	17.7	2.0	1.54	0.70	20	9.4	3/8	10	77
B	D23-L-2800	1363304	2800	5/16	8.0	0.38	0.28	26.6	3.0	1.85	0.84	20	9.4	3/8	10	77
B	D23-L-1750	1363564	1750	5/16	8.0	0.38	0.28	53.1	6.0	1.85	0.84	20	9.4	3/8	10	77
B	D23-L-1050	1363724	1050	5/16	8.0	0.38	0.28	88.5	10.0	1.85	0.84	20	9.4	3/8	10	77
B	D23-L-400	1363984	400	5/16	8.0	0.38	0.28	221.3	25.0	1.85	0.84	20	9.4	3/8	10	77
BUTTON START – D SERIES																
C	D22-S-20000	1253054	20000	1/4	6.5	0.38	0.28	8.9	1.0	1.48	0.67	20	9.4	3/8	10	77
C	D22-S-10000	1253214	10000	1/4	6.5	0.38	0.28	8.9	1.0	1.65	0.75	20	9.4	3/8	10	77
C	D23-S-4400	1363064	4400	5/16	8.0	0.38	0.28	17.7	2.0	1.54	0.70	20	9.4	3/8	10	77
C	D23-S-2800	1363224	2800	5/16	8.0	0.38	0.28	26.6	3.0	1.54	0.70	20	9.4	3/8	10	77
C	D23-S-1750	1363484	1750	5/16	8.0	0.38	0.28	53.1	6.0	1.85	0.84	20	9.4	3/8	10	77
C	D23-S-1050	1363644	1050	5/16	8.0	0.38	0.28	88.5	10.0	1.85	0.84	20	9.4	3/8	10	77
C	D23-S-400	1363804	400	5/16	8.0	0.38	0.28	221.3	25.0	1.85	0.84	20	9.4	3/8	10	77

Safety Information

General Safety Instructions for the Operation of Power Tools

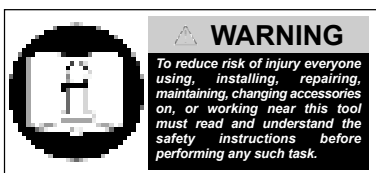
The goal of Chicago Pneumatic and Desoutter is to produce tools that help the operator work safely and efficiently.

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 workplace 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.

Specific Safety Instructions for Power Tool Groups

In addition to the General Safety Instructions, the following are safety instructions and warnings that apply to the safe operation of specific power tool groups.



Compression Tools

- To reduce the risk of injury always keep hands and fingers away from yoke and moving jaws, sets or dies. If possible, hold the tool body with both hands.
- Inspect the yoke daily for cracks. Injury may result if a cracked yoke fails during use.
- All yokes have a life limitation based on cycles and riveting force. This tool and its accessories must not be modified.
- The operator must always read and understand the safety instructions supplied with the tool.



Drills & Tappers

- Keep away from rotating bit and chuck. You can become cut or burned if you come into contact with the drill bit or tap, chips/swarf, or work surface.
- Use intermittent drill feed pressure to avoid long shaved chips/swarf.

- The drill bit or tap can suddenly bind and cause the workpiece or tool to rotate, causing arm and shoulder injuries.
- ANSI recommends use of a support handle on drills with a chuck larger than 3/8" (10mm).



Percussive Tools (Riveting Hammers, Air Scribe)

- All chisels, rivet sets and other associated accessories should be checked for cracks, excessive wear, or other physical damage before each use. Accessories that show signs of damage should be replaced immediately.
- Never use a tool without the proper accessory retainer.



Other Tools (Saws, Deburring, Rivet Milling/Shaving, Vacuum Cleaner)

- Specific instructions/warnings affecting this group of tools are contained in product specific documents accompanying each product.



Accessories

- Always use accessories of correct size and design for the tool. Tool and accessories must not be modified in any way.
- Never use a tool without the proper accessory retainer.
- Do not use a tool or attachment for a purpose not intended by the manufacturer.



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