

Angle Drill Selection



Considerations

- Size of hole to be drilled
- Cutting speed of material to be drilled
- Application – access to hole position
- Type of drill bit to be used
- Tool orientation
- Operator comfort/preference











There are also other considerations to be taken into account when selecting the right tool for the job.

Select the tool with the appropriate capacity and collet/chuck to suit the size of drill bit and hole to be drilled.

Where cycle time is critical it is advisable to use the higher power angle drills. This ensures that cutting speed is optimised during the drilling process.

Optimal cutting speed = Optimal cycle time = Productivity

DRILL SELECTION GUIDE – ANGLE DRILL

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		9-15m/min	10-20m/min	20-35m/min	30-40m/min	50-80m/min	50-100m/min	80-120m/min
Drill Ø (mm)									
C32 (90° head) 	2900	-	-	-	3.0	5.0	5.0	-	-
	D32	5200	-	-	-	2.0	5.0	5.0	4.0
D33 (30° head) 	4000	-	-	-	2.0	5.0	5.0	5.0	-
	2800	-	-	-	3.0	5.0	5.0	-	-
	1800	-	-	4.0	5.0	-	-	-	-
	2000	-	-	4.0	3.0	-	-	-	-
D370 (360° head) 	3000	-	-	4.0	5.0	5.0	5.0	5.0	-
	3000	-	-	-	5.0	5.0	5.0	5.0	-
F32 (90° head) 	4500	-	-	-	-	3.0	5.0	5.0	5.0
	3100	-	-	-	3.0	5.0	5.0	5.0	-
	2200	-	3.0	4.0	5.0	-	-	-	-
	1200	-	4.0	5.0	-	-	-	-	-
	830	2.0	5.0	-	-	-	-	-	-
580	5.0	-	-	-	-	-	-	-	
D314 (90° head) 	4400	-	-	-	-	3.0	6.0	5.0	6.5
	2800	-	-	-	3.0	5.0	6.5	6.5	-
	1750	-	3.0	4.0	6.0	6.5	-	6.5	-
	1050	-	4.0	6.0	6.5	-	-	-	-
D315 (45° head) 	400	6.0	6.5	6.5	-	-	-	-	-
	4400	-	-	-	-	3.0	6.0	5.0	6.5
	2800	-	-	-	3.0	5.0	6.5	6.5	-
D374 (360° head) 	1750	-	3.0	4.0	6.0	6.5	-	6.5	-
	1050	-	4.0	6.0	6.5	-	-	6.5	-
	2800	-	-	-	3.0	5.0	6.5	6.5	6.5
D3141 (90° head) 	2100	-	3.0	3.0	6.0	8.0	8.0	8.0	8.0
	770	-	7.0	8.0	8.0	-	-	-	-
D3143 (90° head)	2100	-	3.0	3.0	6.0	6.5	6.5	6.5	6.5
	770	-	6.5	6.5	6.5	-	-	-	-

Modular Angle Heads

Collet spindle 1/4" x 28 spindle

90° head
3/16" - 5mm capacity

120W
0.16HP

200W
0.27HP

280W
0.38HP

390W
0.52HP

Collet spindle & 1/4" x 28 spindle

30° head
3/16" - 5mm capacity

360° head
3/16" - 5mm capacity

120W
0.16HP

Collet spindle & 1/4" x 28 spindle

90° head
1/4" - 6.4mm capacity

360° head
1/4" - 6.4mm capacity

45° head
1/4" - 6.4mm capacity

280W
0.38HP

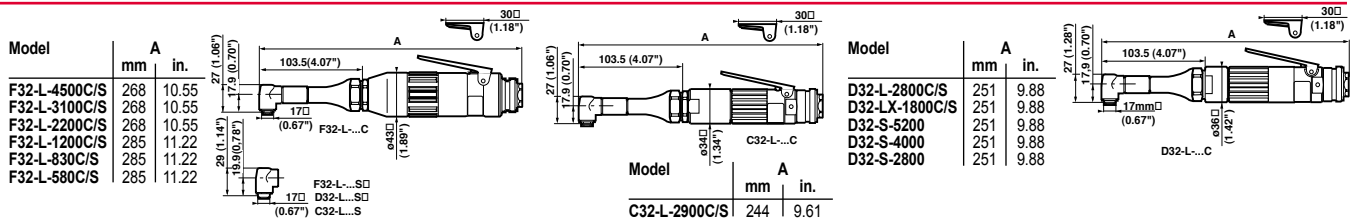
Collet Spindle Key chuck

90° head
8mm capacity

90° head
6.5mm capacity

280W
0.38HP

Accessories



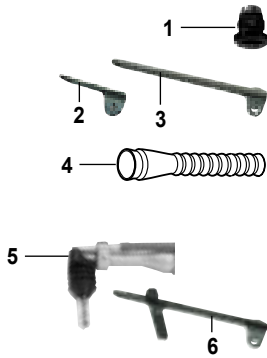
F32-L-.. / D32-L-.. / D32-LX-.. / D32-S-.. / C32-L-..

ACCESSORIES INCLUDED

ITEM	PART NO.
1 ø 4.8mm (3/16") capacity collet	2552
2 Compact lever	410303
3 Standard lever	305983
4 Exhaust hose	222458
• Clamp	235203

OPTIONAL ACCESSORIES

ITEM	F32-L / D32-L C32-L
5 Dust extractor kit	94972
6 Lock off lever	323893



Collets		Capacity	
Capacity	PART NO.	Capacity	PART NO.
• ø 0.8mm	2152	• ø 3.2mm	2392
• ø 0.9mm	2162	• ø 3.3mm	2402
• ø 1.0mm	2172	• ø 3.4mm	2412
• ø 1.1mm	2182	• ø 3.5mm	2422
• ø 1.2mm	2192	• ø 3.6mm	2432
• ø 1.3mm	2202	• ø 3.7mm	2442
• ø 1.4mm	2212	• ø 3.8mm	2452
• ø 1.5mm	2222	• ø 3.9mm	2462
• ø 1.6mm	2232	• ø 4.0mm	2472
• ø 1.7mm	2242	• ø 4.1mm	2482
• ø 1.8mm	2252	• ø 4.2mm	2492
• ø 1.9mm	2262	• ø 4.3mm	2502
• ø 2.0mm	2272	• ø 4.4mm	2512
• ø 2.1mm	2282	• ø 4.5mm	2522
• ø 2.2mm	2292	• ø 4.6mm	2532
• ø 2.3mm	2302	• ø 4.7mm	2542
• ø 2.4mm	2312	• ø 4.8mm	2552
• ø 2.5mm	2322	• ø 4.9mm	2562
• ø 2.6mm	2332	• ø 5.0mm	2572
• ø 2.7mm	2342	• 1/16"	91442
• ø 2.8mm	2352	• 3/32"	91452
• ø 2.9mm	2362	• 1/8"	91462
• ø 3.0mm	2372	• 5/32"	91472
• ø 3.1mm	2382	• 3/16"	91482

Angle Drills

Compact 90° Angle Head

0.16 - 0.50 Hp (0.12 - 0.38 kW) - 580 to 5200 r/min



Vibration level: <2.5 m/s²

PICTURE REF	MODEL	PART NUMBER	FREE SPEED		MOTOR POWER		WEIGHT		AIR FLOW		AIR INLET	MIN HOSE BORE		SOUND LEVEL
			r/min	kW	Hp	kg	lb	l/s	cfm	BSP/NPT	mm	in.	dB(A)	
COLLET SPINDLE – 5mm (3/16") CAPACITY														
Lever Start														
A	F32-L-4500C	1462124	4500	0.38	0.50	1.00	2.2	11.5	24.4	1/4	10	3/8	76	
A	F32-L-3100C	1462104	3100	0.38	0.50	1.00	2.2	11.5	24.4	1/4	10	3/8	76	
A	F32-L-2200C	1462084	2200	0.38	0.50	1.00	2.2	11.5	24.4	1/4	10	3/8	76	
A	F32-L-1200C	1462064	1200	0.38	0.50	1.15	2.5	11.5	24.4	1/4	10	3/8	76	
A	F32-L-830C	1462044	835	0.38	0.50	1.15	2.5	11.5	24.4	1/4	10	3/8	76	
A	F32-L-580C	1462024	580	0.38	0.50	1.15	2.5	11.5	24.4	1/4	10	3/8	76	
B	D32-L-2800C	1460764	2800	0.28	0.38	0.72	1.6	9.4	19.9	1/4	10	3/8	77	
B	D32-LX-1800C	1458224	1800	0.12	0.16	0.72	1.6	5.0	10.6	1/4	6	1/4	73	
Button Start														
C	D32-S-5200	1465344	5200	0.28	0.38	0.72	1.6	9.4	19.9	1/4	10	3/8	77	
C	D32-S-4000	1465354	4000	0.28	0.38	0.72	1.6	9.4	19.9	1/4	10	3/8	77	
C	D32-S-2800	1465364	2800	0.28	0.38	0.72	1.6	9.4	19.9	1/4	10	3/8	77	
Lever Start														
D	C32-L-2900C	1394434	2900	0.20	0.27	0.65	1.4	7.8	16.5	1/4	6	1/4	76	
1/4" x 28 SPINDLE – 5mm (3/16") CAPACITY														
Lever Start														
A	F32-L-4500S	1462114	4500	0.38	0.50	1.00	2.2	11.5	24.4	1/4	10	3/8	76	
A	F32-L-3100S	1462094	3100	0.38	0.50	1.00	2.2	11.5	24.4	1/4	10	3/8	76	
A	F32-L-2200S	1462074	2200	0.38	0.50	1.00	2.2	11.5	24.4	1/4	10	3/8	76	
A	F32-L-1200S	1462054	1200	0.38	0.50	1.15	2.5	11.5	24.4	1/4	10	3/8	76	
A	F32-L-830S	1462034	835	0.38	0.50	1.15	2.5	11.5	24.4	1/4	10	3/8	76	
A	F32-L-580S	1462014	580	0.38	0.50	1.15	2.5	11.5	24.4	1/4	10	3/8	76	
B	D32-L-2800S	1460754	2800	0.28	0.38	0.72	1.6	9.4	19.9	1/4	10	3/8	77	
B	D32-LX-1800S	1458204	1800	0.12	0.16	0.72	1.6	5.0	10.6	1/4	6	1/4	73	
D	C32-L-2900S	1394354	2900	0.20	0.27	0.65	1.4	7.8	16.5	1/4	6	1/4	76	

Accessories

Model	A	
	mm	in.
D314-L-4400	244	9.61
D314-L-2800	244	9.61
D314-L-1750	266	10.47
D314-L-1050	266	10.47
D314-L-400	266	10.47

Model	A	
	mm	in.
D314-S/L-4400	244	9.61
D314-S/L-2800	244	9.61
D314-S/L-1750	266	10.47
D314-S/L-1050	266	10.47
D314-S/L-400	266	10.47

D314-S-.. / D314-L-..

ACCESSORIES INCLUDED

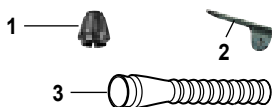
ITEM		PART NO.
1	ø 6.4mm (1/4") capacity collet	19182
2	Compact lever	410303
3	Exhaust hose	222458
	• Clamp	235203

OPTIONAL ACCESSORIES

ITEM		PART NO.
4	Lock off lever	323893

Collets

Capacity	PART NO.
• ø 1.6mm	18922
• ø 1.8mm	18932
• ø 2.0mm	18942
• ø 2.2mm	18952
• ø 2.4mm	18962
• ø 2.6mm	18972
• ø 2.8mm	18982
• ø 3.0mm	18992
• ø 3.2mm	19002
• ø 3.4mm	19022
• ø 3.6mm	19032
• ø 3.8mm	19042
• ø 4.0mm	19052
• ø 4.2mm	19062
• ø 4.4mm	19072
• ø 4.6mm	19082
• ø 4.8mm	19092
• ø 5.0mm	19102
• ø 5.2mm	19122
• ø 5.4mm	19132
• ø 5.6mm	19142
• ø 5.8mm	19152
• ø 6.0mm	19162
• ø 6.2mm	19172
• ø 6.4mm (1/4")	19182



Angle Drills

Standard 90° Angle Head
0.38 Hp (0.28 kW) - 400 to 4400 r/min



A



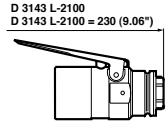
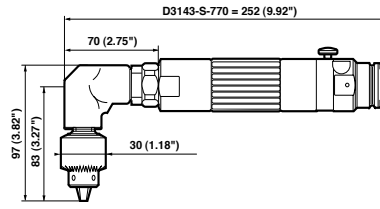
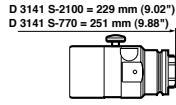
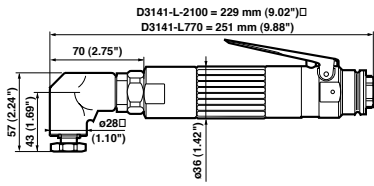
B

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Vibration level: <2.5 m/s²

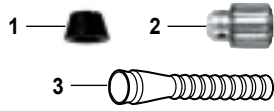
PICTURE REF	MODEL	PART NUMBER	FREE SPEED		MOTOR POWER		WEIGHT		AIR FLOW		AIR INLET	MIN HOSE BORE		SOUND LEVEL
			r/min	kW	Hp	kg	lb	l/s	cfm	BSP/NPT	mm	in.	dB(A)	
COLLET SPINDLE – 6.4mm (1/4") CAPACITY														
Button Start														
A	D314-S-4400	1380814	4400	0.28	0.38	0.77	1.7	9.4	19.9	1/4	6	1/4	77	
A	D314-S-2800	1381204	2800	0.28	0.38	0.77	1.7	9.4	19.9	1/4	6	1/4	77	
A	D314-S-1750	1381884	1750	0.28	0.38	0.90	2.0	9.4	19.9	1/4	6	1/4	77	
A	D314-S-1050	1382274	1050	0.28	0.38	0.90	2.0	9.4	19.9	1/4	6	1/4	77	
Lever Start														
B	D314-L-4400	1380994	4400	0.28	0.38	0.77	1.7	9.4	19.9	1/4	6	1/4	77	
B	D314-L-2800	1381384	2800	0.28	0.38	0.77	1.7	9.4	19.9	1/4	6	1/4	77	
B	D314-L-1750	1381964	1750	0.28	0.38	0.90	2.0	9.4	19.9	1/4	6	1/4	77	
B	D314-L-1050	1382354	1050	0.28	0.38	0.90	2.0	9.4	19.9	1/4	6	1/4	77	
B	D314-L-400	1382774	400	0.28	0.38	0.90	2.0	9.4	19.9	1/4	6	1/4	77	
1/4" x 28 SPINDLE – 6.4mm (1/4") CAPACITY														
Lever Start														
B	D314-L-4400	1456054	4400	0.28	0.38	0.77	1.7	9.4	19.9	1/4	6	1/4	77	
B	D314-L-2800	1456884	2800	0.28	0.38	0.77	1.7	9.4	19.9	1/4	6	1/4	77	
B	D314-L-1750	1456894	1750	0.28	0.38	0.90	2.0	9.4	19.9	1/4	6	1/4	77	
B	D314-L-1050	1456904	1050	0.28	0.38	0.90	2.0	9.4	19.9	1/4	6	1/4	77	
B	D314-L-400	1456914	400	0.28	0.38	0.90	2.0	9.4	19.9	1/4	6	1/4	77	

Accessories



D3141-S-.. / D3141-L-.. / D3143-S-.. / D3143-L-..

ACCESSORIES INCLUDED



ITEM	PART NO.	
	D3141	D3143
1 ø 8mm (5/16") capacity collet	2872	
2 Chuck threaded 3/8" UNF capacity 6.5mm (1/4")		28942
3 Exhaust hose	222458	222458
• Clamp	235203	235203



OPTIONAL ACCESSORIES

ITEM	D3141	D3143
4 Lock off lever	323893	323893



Collets		Capacity	
Capacity	D3141	Capacity	D3141
• ø 2.4mm	2592	• ø 5.2mm	2732
• ø 2.6mm	2602	• ø 5.4mm	2742
• ø 2.8mm	2612	• ø 5.6mm	2752
• ø 3.0mm	2622	• ø 5.8mm	2562
• ø 3.2mm	2632	• ø 6.0mm	2772
• ø 3.4mm	2642	• ø 6.2mm	2782
• ø 3.6mm	2652	• ø 6.4mm	2792
• ø 3.8mm	2662	• ø 6.6mm	2802
• ø 4.0mm	2672	• ø 6.8mm	2812
• ø 4.2mm	2682	• ø 7.0mm	2822
• ø 4.4mm	2692	• ø 7.2mm	2832
• ø 4.6mm	2702	• ø 7.4mm	2842
• ø 4.8mm	2712	• ø 7.6mm	2852
• ø 5.0mm	2722	• ø 7.8mm	2862
		• ø 8.0mm	2872

Angle Drills

Heavy Duty 90° Angle Head 0.38 Hp (0.28 kW) - 770 to 2100 r/min

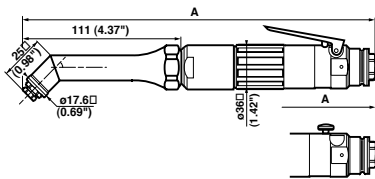


Vibration level: <math><2.5\text{ m/s}^2</math>

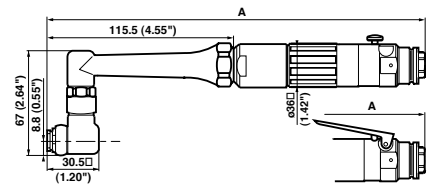
PICTURE REF	MODEL	PART NUMBER	FREE SPEED		MOTOR POWER		WEIGHT		AIR FLOW		AIR INLET	MIN HOSE BORE		SOUND LEVEL
			r/min		kW	Hp	kg	lb	l/s	cfm	BSP/NPT	mm	in.	dB(A)
COLLET SPINDLE – 8mm (5/16") CAPACITY														
Button Start														
A	D3141-S-2100	1383084	2100		0.28	0.38	0.86	1.9	9.4	19.9	1/4	6	1/4	77
A	D3141-S-770	1383244	770		0.28	0.38	1.00	2.2	9.4	19.9	1/4	6	1/4	77
Lever Start														
B	D3141-L-2100	1383164	2100		0.28	0.38	0.86	1.9	9.4	19.9	1/4	6	1/4	77
B	D3141-L-770	1383324	770		0.28	0.38	1.00	2.2	9.4	19.9	1/4	6	1/4	77
KEY CHUCK – 6.5mm (1/4") CAPACITY														
Button Start														
C	D3143-S-2100	1383404	2100		0.28	0.38	0.96	2.1	9.4	19.9	1/4	6	1/4	77
C	D3143-S-770	1383664	770		0.28	0.38	1.00	2.2	9.4	19.9	1/4	6	1/4	77
Lever Start														
D	D3143-L-2100	1383584	2100		0.28	0.38	0.96	2.1	9.4	19.9	1/4	6	1/4	77

Accessories

Model	mm	A	in.
D33-LX-2000	258		10.16
D33-L-3000	258		10.16
Model	mm	A	in.
D33-SX-2000	258		10.16
D33-S-5700	258		10.16
D33-S-4400	258		10.16
D33-S-2800	258		10.16



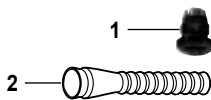
Model	mm	A	in.
D370-SX-2000	262		10.31
Model	mm	A	in.
D370-LX-2000	262		10.31
D370-L-3000	262		10.31



D33-SX-.. / D33-S-.. / D33-LX-.. / D33-L-.. / D370-SX-.. / D370-LX-.. / D370-L-..

ACCESSORIES INCLUDED

ITEM		PART NO.
1	ø 4.8mm (3/16") capacity collet	2552
2	Exhaust hose	222458
	• Clamp	235203



OPTIONAL ACCESSORIES

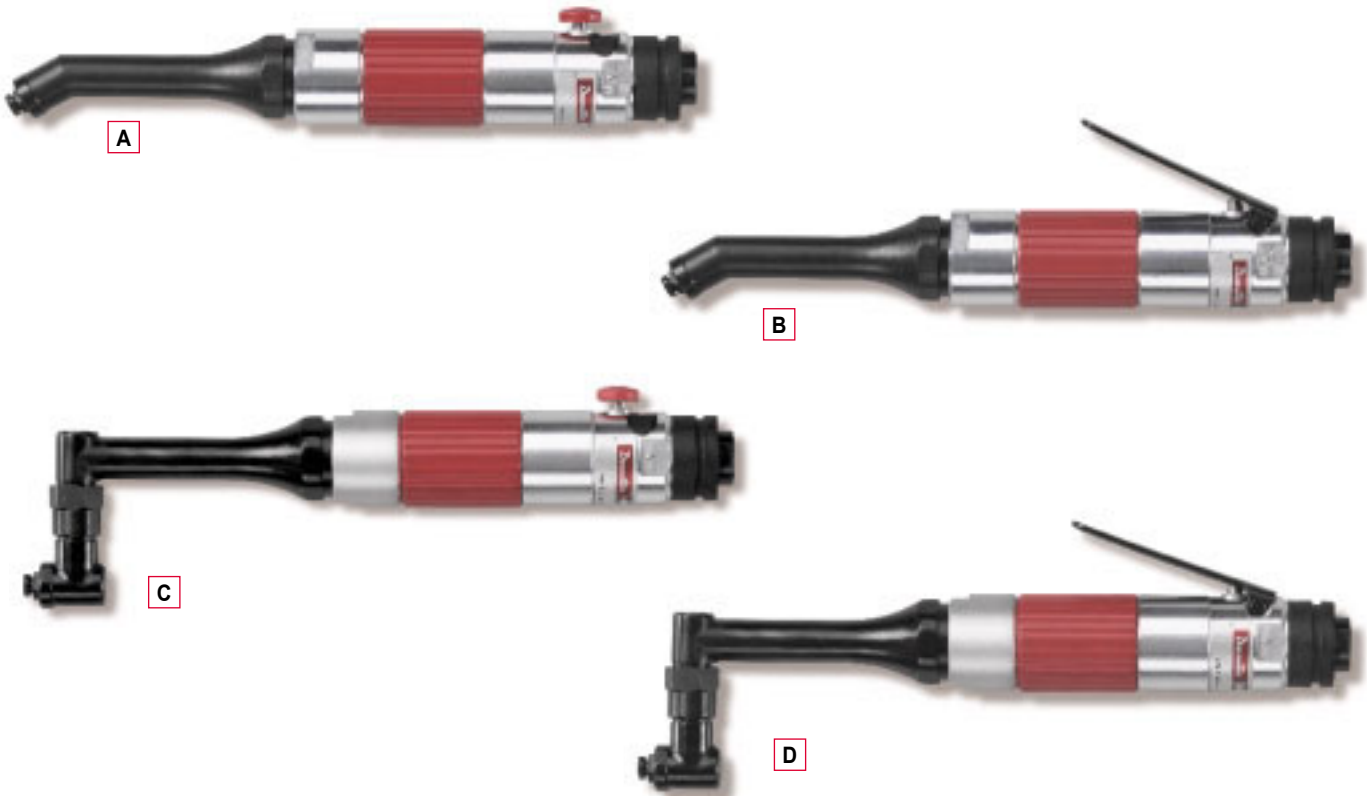
ITEM		D33-... D370-..
3	Lock off lever	323893
4	Compact lever	410303

Collets		Capacity	
Capacity	D33-... D370-..	Capacity	D33-... D370-..
• ø 0.8mm	2152	• ø 3.2mm	2392
• ø 0.9mm	2162	• ø 3.3mm	2402
• ø 1.0mm	2172	• ø 3.4mm	2412
• ø 1.1mm	2182	• ø 3.5mm	2422
• ø 1.2mm	2192	• ø 3.6mm	2432
• ø 1.3mm	2202	• ø 3.7mm	2442
• ø 1.4mm	2212	• ø 3.8mm	2452
• ø 1.5mm	2222	• ø 3.9mm	2462
• ø 1.6mm	2232	• ø 4.0mm	2472
• ø 1.7mm	2242	• ø 4.1mm	2482
• ø 1.8mm	2252	• ø 4.2mm	2492
• ø 1.9mm	2262	• ø 4.3mm	2502
• ø 2.0mm	2272	• ø 4.4mm	2512
• ø 2.1mm	2282	• ø 4.5mm	2522
• ø 2.2mm	2292	• ø 4.6mm	2532
• ø 2.3mm	2302	• ø 4.7mm	2542
• ø 2.4mm	2312	• ø 4.8mm	2552
• ø 2.5mm	2322	• ø 4.9mm	2562
• ø 2.6mm	2332	• ø 5.0mm	2572
• ø 2.7mm	2342	• 1/16"	91442
• ø 2.8mm	2352	• 3/32"	91452
• ø 2.9mm	2362	• 1/8"	91462
• ø 3.0mm	2372	• 5/32"	91472
• ø 3.1mm	2382	• 3/16"	91482



Angle Drills

Compact 30° and 90° x 90° Angle Head 0.16 - 0.38 Hp (0.12 - 0.28 kW) - 2000 to 5700 r/min



Vibration level: <math><2.5 \text{ m/s}^2</math>

PICTURE REF	MODEL	PART NUMBER	FREE SPEED		MOTOR POWER		WEIGHT		AIR FLOW		AIR INLET	MIN HOSE BORE		SOUND LEVEL
			r/min	kW	Hp	kg	lb	l/s	cfm	BSP/NPT	mm	in.	dB(A)	

COLLET SPINDLE – 5mm (3/16") CAPACITY

Button Start

A	D33-SX-2000	1379204	2000	0.12	0.16	0.62	1.4	5.0	10.6	1/4	6	1/4	73
A	D33-S-5700	1465374	5700	0.28	0.38	0.62	1.4	9.4	19.9	1/4	10	3/8	77
A	D33-S-4400	1465384	4400	0.28	0.38	0.62	1.4	9.4	19.9	1/4	10	3/8	77
A	D33-S-2800	1465394	2800	0.28	0.38	0.62	1.4	9.4	19.9	1/4	10	3/8	77

Lever Start

B	D33-LX-2000	1379384	2000	0.12	0.16	0.62	1.4	5.0	10.6	1/4	6	1/4	73
B	D33-L-3000	1464764	3000	0.28	0.38	0.62	1.4	9.4	19.9	1/4	10	3/8	77

1/4" x 28 SPINDLE – 5mm (3/16") CAPACITY

Lever Start

B	D33-LX-2000S	1464834	2000	0.12	0.16	0.62	1.4	5.0	10.6	1/4	6	1/4	73
B	D33-L-3000S	1464824	3000	0.28	0.38	0.62	1.4	9.4	19.9	1/4	10	3/8	77

COLLET SPINDLE – 5mm (3/16") CAPACITY

Button Start

C	D370-SX-2000	1379464	2000	0.12	0.16	0.72	1.6	5.0	10.6	1/4	6	1/4	73
D	D370-LX-2000	1379544	2000	0.12	0.16	0.72	1.6	5.0	10.6	1/4	6	1/4	73
D	D370-L-3000	1464794	3000	0.28	0.38	0.72	1.6	9.4	19.9	1/4	10	3/8	77

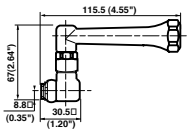
1/4" x 28 SPINDLE – 5mm (3/16") CAPACITY

Lever Start

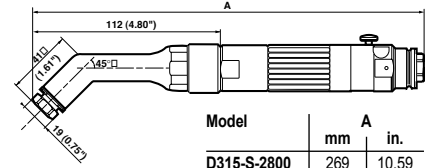
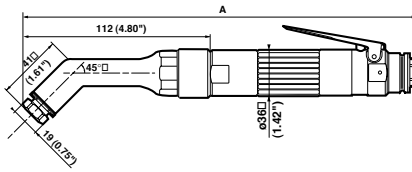
D	D370-LX-2000S	1464804	2000	0.12	0.16	0.72	1.6	5.0	10.6	1/4	6	1/4	73
D	D370-L-3000S	1464814	3000	0.28	0.38	0.72	1.6	9.4	19.9	1/4	10	3/8	77

Accessories

Model	A	
	mm	in.
D374-L/S-2800	262	10.31
D374-L-400	262	10.31



Model	A	
	mm	in.
D315-L-4400	269	10.59
D315-L-2800	269	10.59
D315-L-1750	291	11.46
D315-L-1050	291	11.46
D315-L-400	291	11.46



Model	A	
	mm	in.
D315-S-2800	269	10.59
D315-S-1750	291	11.46
D315-S-1050	291	11.46

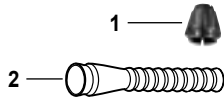
D315-S-.. / D315-L-.. / D374-S-.. / D374-L-..

ACCESSORIES INCLUDED

ITEM		PART NO.
1	ø 6.4mm (1/4") capacity collet	19182
2	Exhaust hose	222458
	• Clamp	235203

OPTIONAL ACCESSORIES

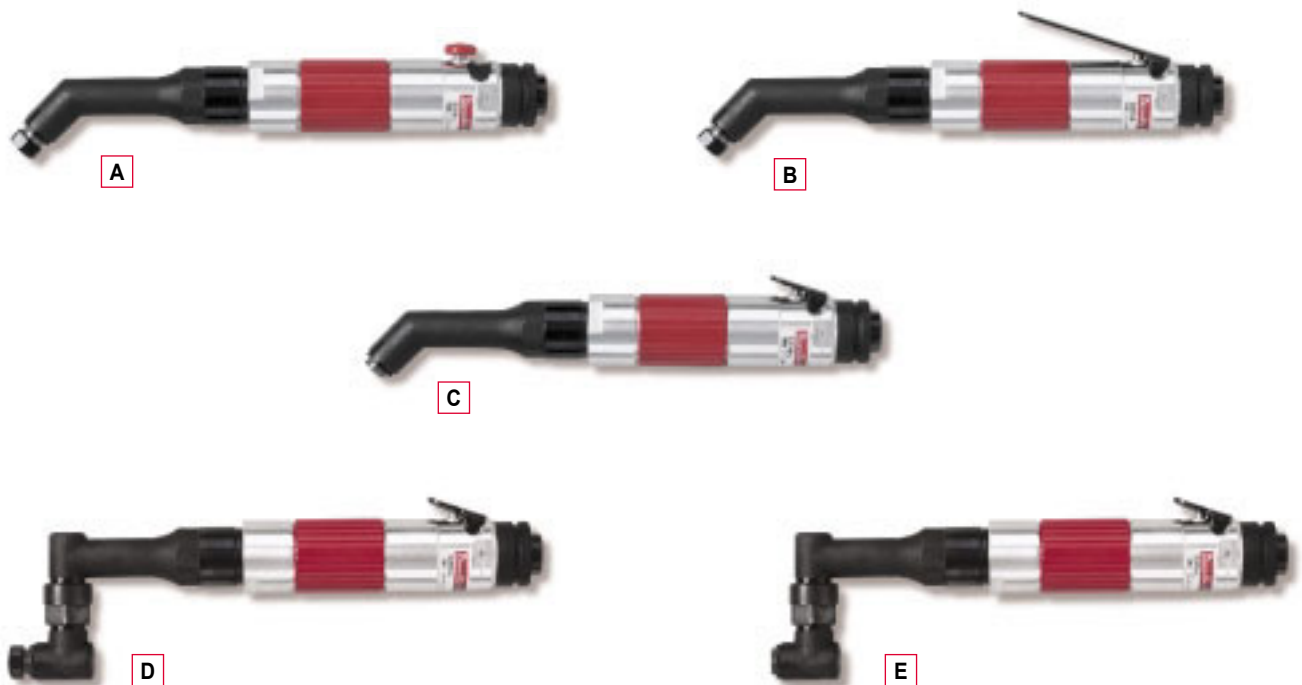
ITEM		PART NO.
3	Lock off lever	323893
4	Compact lever	410303



Collets	PART NO.
Capacity	
• ø 1.6mm	18922
• ø 1.8mm	18932
• ø 2.0mm	18942
• ø 2.2mm	18952
• ø 2.4mm	18962
• ø 2.6mm	18972
• ø 2.8mm	18982
• ø 3.0mm	18992
• ø 3.2mm	19002
• ø 3.4mm	19022
• ø 3.6mm	19032
• ø 3.8mm	19042
• ø 4.0mm	19052
• ø 4.2mm	19062
• ø 4.4mm	19072
• ø 4.6mm	19082
• ø 4.8mm	19092
• ø 5.0mm	19102
• ø 5.2mm	19122
• ø 5.4mm	19132
• ø 5.6mm	19142
• ø 5.8mm	19152
• ø 6.0mm	19162
• ø 6.2mm	19172
• ø 6.4mm (1/4")	19182

Angle Drills

Standard 45° and 90° x 90° Angle Head 0.38 Hp (0.28 kW) - 400 to 4400 r/min



Vibration level: <2.5 m/s²

PICTURE REF	MODEL	PART NUMBER	FREE SPEED		MOTOR POWER		WEIGHT		LENGTH		AIR FLOW		AIR INLET	MIN HOSE BORE		SOUND LEVEL
			r/min		kW	Hp	kg	lb	mm	in.	l/s	cfm	BSP/NPT	mm	in.	dB(A)
COLLET SPINDLE – 6.4mm (1/4") CAPACITY																
Button Start																
A	D315-S-2800	1381464	2800		0.28	0.38	0.79	1.7	269	10.59	9.4	19.9	1/4	10	3/8	77
A	D315-S-1750	1382014	1750		0.28	0.38	0.79	1.7	291	11.46	9.4	19.9	1/4	10	3/8	77
A	D315-S-1050	1382434	1050		0.28	0.38	0.90	2.0	291	11.46	9.4	19.9	1/4	10	3/8	77
Lever Start																
B	D315-L-4400	1462134	4400		0.28	0.38	0.79	1.7	269	10.59	9.4	19.9	1/4	10	3/8	77
B	D315-L-2800	1381544	2800		0.28	0.38	0.79	1.7	269	10.59	9.4	19.9	1/4	10	3/8	77
B	D315-L-1750	1382194	1750		0.28	0.38	0.90	2.0	291	11.46	9.4	19.9	1/4	10	3/8	77
1/4" x 28 SPINDLE – 6.4mm (1/4") CAPACITY																
Lever Start																
C	D315-L-4400S	1456934	4400		0.28	0.38	0.79	1.7	269	10.59	9.4	19.9	1/4	10	3/8	77
C	D315-L-2800S	1456944	2800		0.28	0.38	0.79	1.7	269	10.59	9.4	19.9	1/4	10	3/8	77
C	D315-L-1750S	1456954	1750		0.28	0.38	0.90	2.0	291	11.46	9.4	19.9	1/4	10	3/8	77
C	D315-L-1050S	1456964	1050		0.28	0.38	0.90	2.0	291	11.46	9.4	19.9	1/4	10	3/8	77
C	D315-L-400S	1456974	400		0.28	0.38	0.90	2.0	291	11.46	9.4	19.9	1/4	10	3/8	77
COLLET SPINDLE – 6.4mm (1/4") CAPACITY																
Button Start																
D	D374-S-2800	1381624	2800		0.28	0.38	0.88	1.9	262	10.31	9.4	19.9	1/4	6	1/4	77
Lever Start																
D	D374-L-2800	1381704	2800		0.28	0.38	0.88	1.9	262	10.31	9.4	19.9	1/4	6	1/4	77
D	D374-L-400	1465334	400		0.28	0.38	0.99	2.2	284	11.18	9.5	19.1	1/4	6	1/4	77
1/4" x 28 SPINDLE – 6.4mm (1/4") CAPACITY																
Lever Start																
E	D374-L-2800S	1456994	2800		0.28	0.38	0.88	1.9	262	10.31	9.4	19.9	1/4	6	1/4	77