



Drills, Tappers, Rack Feed Drills

Pistol Grip, Straight Grip, Angle Drills - Multi Drills

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

Typical construction (illustration shows DR750)



Pistol Grips Drills

Ideal for all general industrial drilling tasks. Best ergonomic shape, single and double handed use



Straight Drills

Mainly smaller diameter drilling. Suitable for production line repetitive operations



Angle Drills

Ideal for restricted access applications



Right Drill Selection

High power - Durable: long life - High precision - Ergonomic



Choosing the right Drill

Pistol Grip Drills

- Ideal for all general industrial drilling tasks
- Drilling capacity up to 13mm (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 10mm (3/8") Ø Steel
- Favoured for vertical drilling
- Suitable for production line repetitive operations



Angle Drills

- Most commonly used in aerospace
- Ideal for restricted access applications
- Drill capacity up to 8mm (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

Collet Chuck / Spindle

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

Screw Shank

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

How to select your tool:

- 1 Select material 2 Select hole size 3 Define speed

TOOL TYPE	FREE SPEED	TITANIUM	STAINLESS STEEL	HARD CAST IRON, MEDIUM HARD STEEL	SOFT CAST IRON, MILD STEEL	HARD PLASTICS	ALUMINIUM, BRASS, COPPER, BRONZE 1	COMPOSITE	WOOD, SOFT PLASTICS, CHIPBOARD
	rpm		9-15m/min	10-20m/min	20-35m/min	30-40m/min	50-80m/min	50-100m/min	80-120m/min
Drill Ø mm (in.)									

PISTOL GRIP

DR350 ø8-10mm (5/16" - 3/8") cap.	20000							4.0 (5/32")	2.0 (5/64")
	5500						4.0 (5/32")	5.0 (3/16")	6.0 (1/4")
	4500					3.0 (1/8")	6.0 (1/4")	8.0 (5/16")	
	3000 3				4.0 (5/32")	5.0 (3/16")	8.0 (5/16") 2		
	2000		3.0 (1/8")	4.0 (5/32")	6.0 (1/4")	8.0 (5/16")	10.0 (13/32")		
	1000		4.0 (5/32")	6.0 (1/4")	8.0 (5/16")				
	550	6.0 (1/4")	8.0 (5/16")						

DR500 ø8-13mm (5/16" - 1/2") cap.	18500							4.0 (5/32")	2.0 (5/64")
	5800						4.0 (5/32")	5.0 (3/16")	6.0 (1/4")
	4300					3.0 (1/8")	6.0 (1/4")	10.0 (13/32")	12.0 (1/2")
	2700			3.0 (1/8")	4.0 (5/32")	5.0 (3/16")	8.0 (5/16")	12.0 (1/2")	
	1800		3.0 (1/8")	4.0 (5/32")	6.0 (1/4")	8.0 (5/16")	10.0 (13/32")		
	1400		4.0 (5/32")	5.0 (3/16")	9.0 (11/32")	11.0 (7/16")			
	1000		5.0 (3/16")	6.0 (1/4")	10.0 (13/32")				
	600	3.0 (1/8")	7.0 (9/32")	8.0 (5/16")	12.0 (1/3")				
	400	6.0 (1/4")	8.0 (5/16")	10.0 (13/32")					

DR750 ø8-13mm (5/16" - 1/2") cap.	20000						2.0 (5/64")	2.0 (5/64")	
	6000						4.0 (5/32")	5.0 (3/16")	6.0 (1/4")
	4100					3.0 (1/8")	6.0 (1/4")	8.0 (5/16")	10.0 (13/32")
	3300				3.0 (1/8")	4.0 (5/32")	8.0 (5/16")	10.0 (13/32")	12.0* (1/2")
	2700			3.0 (1/8")	4.0 (5/32")	5.0 (3/16")	10.0 (13/32")	13.0* (1/2")	15.0* (19/32")
	1300		4.0 (5/32")	5.0 (3/16")	9.0 (11/32")	11.0* (7/16")	19.0* (3/4")		30.0* (13/16")
	750	3.0 (1/8")	7.0 (9/32")	8.0 (5/16")	15.0* (19/32")	19.0* (3/4")	30.0* (13/16")		
	400	6.0 (1/4")	8.0 (5/16")	10.0 (13/32")					

STRAIGHT CASE

DR300-T... ø8-10mm (5/16" - 3/8") cap.	20000							4.0 (5/32")	2.0 (5/64")
	5500						4.0 (5/32")	5.0 (3/16")	6.0 (1/4")
	4500					3.0 (1/8")	6.0 (1/4")	8.0 (5/16")	
	3000				4.0 (5/32")	5.0 (3/16")	8.0 (5/16")		
	2000		3.0 (1/8")	4.0 (5/32")	6.0 (1/4")	8.0 (5/16")			
	1000	3.0 (1/8")	4.0 (5/32")	6.0 (1/4")	8.0 (5/16")				
	550	6.0 (1/4")	8.0 (5/16")						

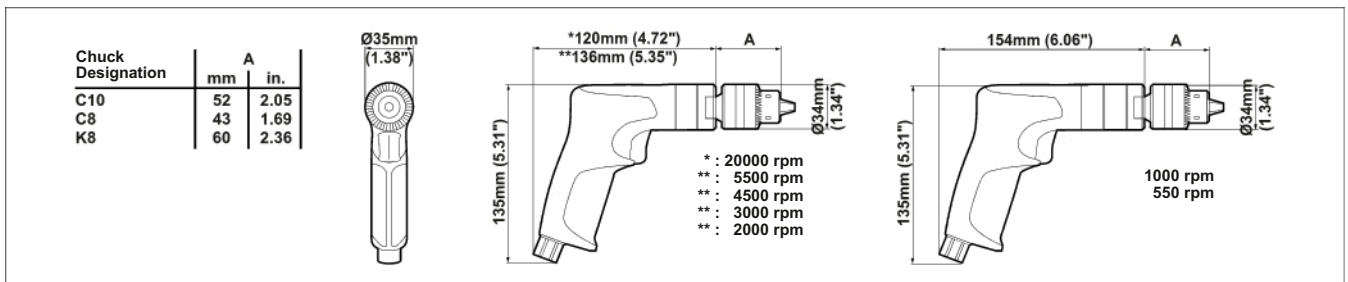
* above standard chuck capacity

Pistol Grip Drills

0.35 kW (0.5 hp) - 550 to 20000 rpm



Accessories: see page 266-268



PIC REF	MODEL	PART NUMBER	FREE SPEED	CHUCK SIZE		MOTOR POWER		STALL TORQUE		WEIGHT		AIR FLOW		AIR INLET	HOSE INT. Ø	
				rpm	mm	in.	kW	hp	Nm	ln lb	kg	lb	l/s	cfm	in.	mm
TRIGGER START – KEY CHUCK MODELS																
A	DR350-P20000-C8	205 147 252 4	20000	8	5/16	0.35	0.5	0.6	5.3	0.62	1.36	9.5	20	1/4	6	1/4
A	DR350-P5500-C8	205 147 250 4	5500	8	5/16	0.35	0.5	2.3	20.4	0.62	1.36	9.5	20	1/4	6	1/4
A	DR350-P4500-C8	205 147 382 4	4500	8	5/16	0.35	0.5	2.7	23.9	0.62	1.36	9.5	20	1/4	6	1/4
A	DR350-P3000-C8	205 147 248 4	3000	8	5/16	0.35	0.5	4.0	35.4	0.62	1.36	9.5	20	1/4	6	1/4
A	DR350-P2000-C8	205 147 246 4	2000	8	5/16	0.35	0.5	5.4	47.8	0.62	1.36	9.5	20	1/4	6	1/4
B	DR350-P1000-C10	205 147 244 4	1000	10	3/8	0.35	0.5	12.7	112.4	0.79	1.74	9.5	20	1/4	6	1/4
B	DR350-P550-C10	205 147 242 4	550	10	3/8	0.35	0.5	18.6	164.6	0.79	1.74	9.5	20	1/4	6	1/4
TRIGGER START – KEYLESS CHUCK MODELS																
C	DR350-P5500-K8	205 147 251 4	5500	8	5/16	0.35	0.5	2.3	20.4	0.64	1.41	9.5	20	1/4	6	1/4
C	DR350-P4500-K8	205 147 383 4	4500	8	5/16	0.35	0.5	2.7	23.9	0.64	1.41	9.5	20	1/4	6	1/4
C	DR350-P3000-K8	205 147 249 4	3000	8	5/16	0.35	0.5	4.0	35.4	0.64	1.41	9.5	20	1/4	6	1/4
C	DR350-P2000-K8	205 147 247 4	2000	8	5/16	0.35	0.5	5.4	47.8	0.64	1.41	9.5	20	1/4	6	1/4
D	DR350-P1000-K8	205 147 245 4	1000	8	5/16	0.35	0.5	12.7	112.4	0.72	1.59	9.5	20	1/4	6	1/4
D	DR350-P550-K8	205 147 243 4	550	8	5/16	0.35	0.5	18.6	164.6	0.72	1.59	9.5	20	1/4	6	1/4
TRIGGER START – WITHOUT CHUCK MODELS																
E	DR350-P20000*	205 147 359 4	20000			0.35	0.5	0.6	5.3	0.49	1.1	9.5	20	1/4	6	1/4
E	DR350-P5500*	205 147 358 4	5500			0.35	0.5	2.3	20.4	0.49	1.1	9.5	20	1/4	6	1/4
E	DR350-P4500*	205 147 384 4	4500			0.35	0.5	2.7	23.9	0.49	1.1	9.5	20	1/4	6	1/4
E	DR350-P3000*	205 147 357 4	3000			0.35	0.5	4.0	35.4	0.49	1.1	9.5	20	1/4	6	1/4
E	DR350-P2000*	205 147 356 4	2000			0.35	0.5	5.4	47.8	0.49	1.1	9.5	20	1/4	6	1/4
F	DR350-P1000*	205 147 355 4	1000			0.35	0.5	12.7	112.4	0.57	1.3	9.5	20	1/4	6	1/4
F	DR350-P550*	205 147 354 4	550			0.35	0.5	18.6	164.6	0.57	1.3	9.5	20	1/4	6	1/4

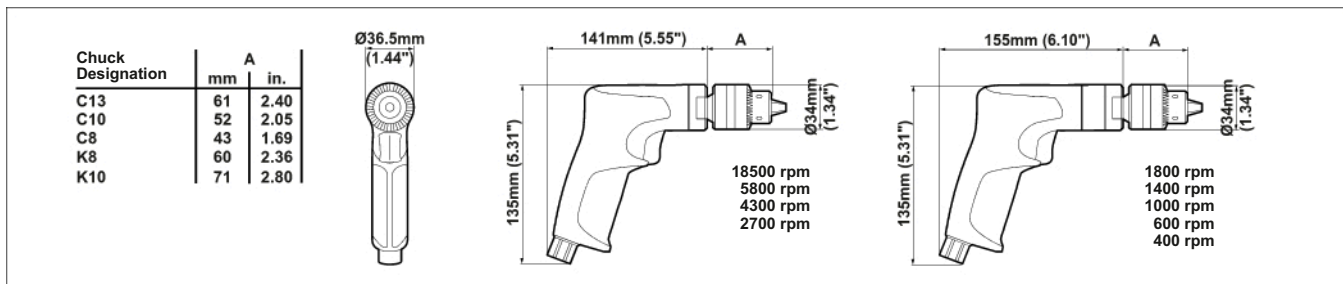
* Chuck spindle 3/8" x 24 UNF

Pistol Grip Drills

0.5 kW (0.68 hp) - 400 to 18500 rpm



Accessories: see page 266-268



PIC REF	MODEL	PART NUMBER	FREE SPEED	CHUCK SIZE		MOTOR POWER		STALL TORQUE		WEIGHT		AIR FLOW		AIR INLET		HOSE INT. Ø	
				mm	in.	kW	hp	Nm	In lb	kg	lb	l/s	cfm	in.	mm	in.	
TRIGGER START – KEY CHUCK MODELS																	
A	DR500-P18500-C8	205 147 676 4	18500	8	5/16	0.5	0.68	1.0	8.85	0.67	1.5	14	30	1/4	10	3/8	
A	DR500-P5800-C8	205 147 673 4	5800	8	5/16	0.5	0.68	3.1	27.44	0.67	1.5	14	30	1/4	10	3/8	
A	DR500-P4300-C8	205 147 670 4	4300	8	5/16	0.5	0.68	4.2	37.17	0.67	1.5	14	30	1/4	10	3/8	
A	DR500-P2700-C8	205 147 667 4	2700	8	5/16	0.5	0.68	6.9	61.07	0.67	1.5	14	30	1/4	10	3/8	
B	DR500-P1800-C10	205 147 664 4	1800	10	3/8	0.5	0.68	9.9	87.62	0.84	1.8	14	30	1/4	10	3/8	
B	DR500-P1400-C10	205 147 661 4	1400	10	3/8	0.5	0.68	13.4	118.59	0.84	1.8	14	30	1/4	10	3/8	
B	DR500-P1000-C10	205 147 658 4	1000	10	3/8	0.5	0.68	18.0	159.30	0.84	1.8	14	30	1/4	10	3/8	
B	DR500-P600-C13	205 147 655 4	600	13	1/2	0.5	0.68	28.7	254.00	0.96	2.1	14	30	1/4	10	3/8	
B	DR500-P400-C13	205 147 652 4	400	13	1/2	0.5	0.68	46.0	407.10	0.96	2.1	14	30	1/4	10	3/8	
TRIGGER START – KEYLESS CHUCK MODELS																	
C	DR500-P5800-K8	205 147 674 4	5800	8	5/16	0.5	0.68	3.1	27.44	0.85	1.9	14	30	1/4	10	3/8	
C	DR500-P4300-K8	205 147 671 4	4300	8	5/16	0.5	0.68	4.2	37.17	0.85	1.9	14	30	1/4	10	3/8	
C	DR500-P2700-K8	205 147 668 4	2700	8	5/16	0.5	0.68	6.9	61.07	0.85	1.9	14	30	1/4	10	3/8	
D	DR500-P1800-K10	205 147 665 4	1800	10	3/8	0.5	0.68	9.9	87.62	1.00	2.2	14	30	1/4	10	3/8	
D	DR500-P1400-K10	205 147 662 4	1400	10	3/8	0.5	0.68	13.4	118.59	1.00	2.2	14	30	1/4	10	3/8	
D	DR500-P1000-K10	205 147 659 4	1000	10	3/8	0.5	0.68	18.0	159.30	1.00	2.2	14	30	1/4	10	3/8	
D	DR500-P600-K10	205 147 656 4	600	10	3/8	0.5	0.68	28.7	254.00	1.00	2.2	14	30	1/4	10	3/8	
D	DR500-P400-K10	205 147 653 4	400	10	3/8	0.5	0.68	46.0	407.10	1.00	2.2	14	30	1/4	10	3/8	
TRIGGER START – WITHOUT CHUCK MODELS																	
E	DR500-P18500*	205 147 678 4	18500			0.5	0.68	1.0	8.85	0.56	1.2	14	30	1/4	10	3/8	
E	DR500-P5800*	205 147 675 4	5800			0.5	0.68	3.1	27.44	0.56	1.2	14	30	1/4	10	3/8	
E	DR500-P4300*	205 147 672 4	4300			0.5	0.68	4.2	37.17	0.56	1.2	14	30	1/4	10	3/8	
E	DR500-P2700*	205 147 669 4	2700			0.5	0.68	6.9	61.07	0.56	1.2	14	30	1/4	10	3/8	
F	DR500-P1800*	205 147 666 4	1800			0.5	0.68	9.9	87.62	0.64	1.4	14	30	1/4	10	3/8	
F	DR500-P1400*	205 147 663 4	1400			0.5	0.68	13.4	118.59	0.64	1.4	14	30	1/4	10	3/8	
F	DR500-P1000*	205 147 660 4	1000			0.5	0.68	18.0	159.30	0.64	1.4	14	30	1/4	10	3/8	
F	DR500-P600*	205 147 657 4	600			0.5	0.68	28.7	254.00	0.64	1.4	14	30	1/4	10	3/8	
F	DR500-P400*	205 147 654 4	400			0.5	0.68	46.0	407.10	0.64	1.4	14	30	1/4	10	3/8	

* Chuck spindle 3/8" x 24 UNF

Pistol Grip Drills

High Power Drill 0.75 kW (1 hp) - 400 to 20000 rpm



Accessories: see page 266-268



Chuck Designation	mm	A in.
C13	61	2.40
C10	52	2.05
C8	43	1.69
K10	71	2.80
K8	60	2.36

Model	Chuck Designation	Chuck Size	Spindle Length	Spindle Diameter
DR750-P20000	JT1	8 5/16"	152 mm (5.98")	ø41.3mm (1.63")
DR750-P6000	JT1	8 5/16"	152 mm (5.98")	ø41.3mm (1.63")
DR750-P4100	JT1	8 5/16"	152 mm (5.98")	ø41.3mm (1.63")
DR750-P3300	JT1	8 5/16"	152 mm (5.98")	ø41.3mm (1.63")
DR750-P2700	JT1	8 5/16"	152 mm (5.98")	ø41.3mm (1.63")
DR750-P13000	JT1	10 3/8"	184 mm (7.24")	ø41.3mm (1.63")
DR750-P750	JT1	10 3/8"	184 mm (7.24")	ø41.3mm (1.63")
DR750-P400	JT1	10 3/8"	184 mm (7.24")	ø41.3mm (1.63")

PIC REF	MODEL	PART NUMBER	FREE SPEED	CHUCK SIZE		MOTOR POWER		STALL TORQUE		WEIGHT		AIR FLOW		AIR INLET		HOSE INT. Ø	
				mm	in.	kW	hp	Nm	in lb	kg	lb	l/s	cfm	in.	mm	in.	

TRIGGER START - KEY CHUCK MODELS

A	DR750-P20000-C8	205 146 659 4	20000	8	5/16	0.75	1.00	1.6	14.2	1.1	2.4	14	30	1/4	10	3/8
A	DR750-P6000-C8	1465124	6000	8	5/16	0.75	1.00	5.3	46.9	1.1	2.4	14	30	1/4	10	3/8
A	DR750-P4100-C8	1465114	4100	8	5/16	0.75	1.00	7.1	62.8	1.1	2.4	14	30	1/4	10	3/8
A	DR750-P3300-C10	1465104	3300	10	3/8	0.75	1.00	9.6	85.0	1.1	2.4	14	30	1/4	10	3/8
A	DR750-P2700-C10	1465094	2700	10	3/8	0.75	1.00	11.1	98.2	1.1	2.4	14	30	1/4	10	3/8
B	DR750-P1300-C10	1465084	1300	10	3/8	0.75	1.00	23.9	211.5	1.6	3.5	14	30	1/4	10	3/8
B	DR750-P750-C13	1465074	750	13	1/2	0.75	1.00	41.0	362.9	1.6	3.5	14	30	1/4	10	3/8
B	DR750-P400-C13	205 146 658 4	400	13	1/2	0.75	1.00	55.0	486.8	1.6	3.5	14	30	1/4	10	3/8

TRIGGER START - JACOBS TAPER 1 SPINDLE - WITHOUT CHUCK

C	DR750-P20000-JT1	205 146 667 4	20000			0.75	1.00	1.6	14.2	0.9	2.0	14	30	1/4	10	3/8
C	DR750-P6000-JT1	205 146 666 4	6000			0.75	1.00	5.3	46.9	0.9	2.0	14	30	1/4	10	3/8
C	DR750-P4100-JT1	205 146 665 4	4100			0.75	1.00	7.1	62.8	0.9	2.0	14	30	1/4	10	3/8
C	DR750-P3300-JT1	205 146 664 4	3300			0.75	1.00	9.6	85.0	0.9	2.0	14	30	1/4	10	3/8
C	DR750-P2700-JT1	205 146 663 4	2700			0.75	1.00	11.1	98.2	0.9	2.0	14	30	1/4	10	3/8
D	DR750-P1300-JT1	205 146 662 4	1300			0.75	1.00	23.9	211.5	1.15	2.5	14	30	1/4	10	3/8
D	DR750-P750-JT1	205 146 661 4	750			0.75	1.00	41.0	362.9	1.15	2.5	14	30	1/4	10	3/8
D	DR750-P400-JT1	205 146 660 4	400			0.75	1.00	55.0	486.8	1.15	2.5	14	30	1/4	10	3/8

TRIGGER START - KEYLESS CHUCK MODELS

E	DR750-P6000-K8	1465164	6000	8	5/16	0.75	1.00	5.3	46.9	1.1	2.4	14	30	1/4	10	3/8
E	DR750-P4100-K8	1465154	4100	8	5/16	0.75	1.00	7.1	62.8	1.1	2.4	14	30	1/4	10	3/8
E	DR750-P3300-K10	1465144	3300	10	3/8	0.75	1.00	9.6	85.0	1.1	2.4	14	30	1/4	10	3/8
E	DR750-P2700-K10	1465134	2700	10	3/8	0.75	1.00	11.1	98.2	1.1	2.4	14	30	1/4	10	3/8

TRIGGER START - WITHOUT CHUCK

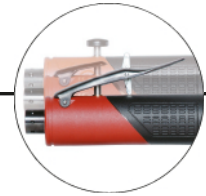
F	DR750-P20000*	205 147 458 4	20000			0.75	1.00	1.6	14.2	0.9	2.0	14	30	1/4	10	3/8
F	DR750-P6000*	205 147 417 4	6000			0.75	1.00	5.3	46.9	0.9	2.0	14	30	1/4	10	3/8
F	DR750-P4100*	205 147 456 4	4100			0.75	1.00	7.1	62.8	0.9	2.0	14	30	1/4	10	3/8
F	DR750-P3300*	205 147 455 4	3300			0.75	1.00	9.6	85.0	0.9	2.0	14	30	1/4	10	3/8
F	DR750-P2700*	205 147 416 4	2700			0.75	1.00	11.1	98.2	0.9	2.0	14	30	1/4	10	3/8
G	DR750-P1300*	205 147 415 4	1300			0.75	1.00	23.9	211.5	1.15	2.5	14	30	1/4	10	3/8
G	DR750-P750**	205 147 452 4	750			0.75	1.00	41.0	362.9	1.15	2.5	14	30	1/4	10	3/8
G	DR750-P400**	205 147 451 4	400			0.75	1.00	55.0	486.8	1.15	2.5	14	30	1/4	10	3/8

* Chuck spindle 3/8" x 24 UNF

** Chuck spindle 1/2" x 20 UNF

Straight Grip Drills

0.3 kW (0.4 hp) - 550 to 20000 rpm



Interchangeable lever included



A



B



C



D

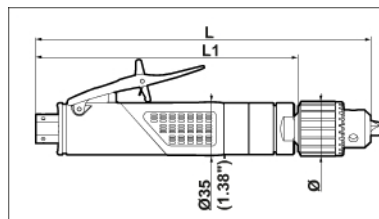


E



F

Accessories: see page 266-268



Model	L		L1		Ø	
	mm	in.	mm	in.	mm	in.
DR300-T20000-C8	197	7.76	145	5.71	30	1.18
DR300-T5500-C8	214	8.43	159	6.26	30	1.18
DR300-T4500-C8	214	8.43	159	6.26	30	1.18
DR300-T3000-C8	214	8.43	159	6.26	30	1.18
DR300-T2000-C8	214	8.43	159	6.26	30	1.18
DR300-T1000-C10	231	9.09	176	6.93	36	1.42
DR300-T550-C10	231	9.09	176	6.93	36	1.42

PIC REF	MODEL	PART NUMBER	FREE SPEED	CHUCK SIZE		MOTOR POWER		STALL TORQUE		WEIGHT		AIR FLOW		AIR INLET	HOSE INT. Ø	
				rpm	mm	in.	kW	hp	Nm	in lb	kg	lb	l/s	cfm	in.	mm

KEY CHUCK MODELS

A	DR300-T20000-C8	205 147 496 4	20000	8	5/16	0.3	0.4	0.6	5.3	0.47	1.03	9.5	20	1/4	6	1/4
B	DR300-T5500-C8	205 147 493 4	5500	8	5/16	0.3	0.4	2.3	20.4	0.6	1.32	9.5	20	1/4	6	1/4
B	DR300-T4500-C8	205 147 490 4	4500	8	5/16	0.3	0.4	2.7	23.9	0.6	1.32	9.5	20	1/4	6	1/4
B	DR300-T3000-C8	205 147 487 4	3000	8	5/16	0.3	0.4	4.0	35.4	0.6	1.32	9.5	20	1/4	6	1/4
B	DR300-T2000-C8	205 147 484 4	2000	8	5/16	0.3	0.4	5.4	47.8	0.6	1.32	9.5	20	1/4	6	1/4
C	DR300-T1000-C10	205 147 481 4	1000	10	3/8	0.3	0.4	12.7	112.4	0.75	1.65	9.5	20	1/4	6	1/4
C	DR300-T550-C10	205 147 478 4	550	10	3/8	0.3	0.4	18.6	164.6	0.75	1.65	9.5	20	1/4	6	1/4

WITHOUT CHUCK MODELS

F	DR300-T20000*	205 147 495 4	20000			0.3	0.4	0.6	5.3	0.34	0.75	9.5	20	1/4	6	1/4
D	DR300-T5500*	205 147 492 4	5500			0.3	0.4	2.3	20.4	0.47	1.04	9.5	20	1/4	6	1/4
D	DR300-T4500*	205 147 489 4	4500			0.3	0.4	2.7	23.9	0.47	1.04	9.5	20	1/4	6	1/4
D	DR300-T3000*	205 147 486 4	3000			0.3	0.4	4.0	35.4	0.47	1.04	9.5	20	1/4	6	1/4
D	DR300-T2000*	205 147 483 4	2000			0.3	0.4	5.4	47.8	0.47	1.04	9.5	20	1/4	6	1/4
E	DR300-T1000*	205 147 480 4	1000			0.3	0.4	12.7	112.4	0.52	1.15	9.5	20	1/4	6	1/4
E	DR300-T550*	205 147 477 4	550			0.3	0.4	18.6	164.6	0.52	1.15	9.5	20	1/4	6	1/4

* Chuck spindle 3/8" x 24 UNF

Angle Drill Selection



DR300-T5/S5

DR300-T6/S6



Ergonomics

Spindle and lock ring
By locking the spindle the drill bit can be replaced using a single tool.

How to select your tool:

- 1 Select material 2 Select hole size 3 Define speed

DRILL SELECTION GUIDE – ANGLE DRILL

TOOL TYPE	FREE SPEED	TITANIUM	STAINLESS STEEL	HARD CAST IRON, MEDIUM HARD STEEL	SOFT CAST IRON, MILD STEEL 1	HARD PLASTICS	ALUMINIUM, BRASS, COPPER, BRONZE	COMPOSITE	WOOD, SOFT PLASTICS, CHIPBOARD
	rpm		9-15m/min	10-20m/min	20-35m/min	30-40m/min	50-80m/min	50-100m/min	80-120m/min
					Drill ø mm				

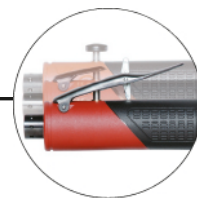
COMPACT HEAD									
DR300-T5/S5 (30°, 90° & 360° head)	5500	-	-	-	-	3.0 (1/8")	5.0 (3/16")	5.0 (3/16")	5.0 (3/16")
	4500	-	-	-	-	3.0 (1/8")	5.0 (3/16")	5.0 (3/16")	5.0 (3/16")
DR300-QR (30°, 90° & 360° head)	3000 3	-	-	-	3.0 (1/8") 2	5.0 (3/16")	5.0 (3/16")	5.0 (3/16")	-
	2000	-	3.0 (1/8")	4.0 (5/32")	5.0 (3/16")	-	-	-	-
	1000	-	4.0 (5/32")	5.0 (3/16")	-	-	-	-	-

STANDARD HEAD									
DR300-T6/S6 (45°, 90° & 360° head)	5500	-	-	-	-	3.0 (1/8")	6.0 (1/4")	5.0 (3/16")	6.5 (1/4")
	4500	-	-	-	-	3.0 (1/8")	6.0 (1/4")	5.0 (3/16")	6.5 (1/4")
	3000	-	-	-	3.0 (1/8")	5.0 (3/16")	6.5 (1/4")	6.5 (1/4")	-
DR300-QR (45°, 90° & 360° head)	2000	-	3.0 (1/8")	4.0 (5/32")	6.5 (1/4")	6.5 (1/4")	-	6.5 (1/4")	-
	1000	-	4.0 (5/32")	6.0 (1/4")	6.5 (1/4")	-	-	-	-
	550	6.0 (1/4")	6.5 (1/4")	6.5 (1/4")	-	-	-	-	-

HEAVY DUTY									
DR3141 (90° head)	2100	-	3.0 (1/8")	3.0 (1/8")	6.0 (1/4")	8.0 (5/16")	8.0 (5/16")	8.0 (5/16")	8.0 (5/16")
DR3143 (90° head)	770	-	7.0 (9/32")	8.0 (5/16")	8.0 (5/16")	-	-	-	-
	2100	-	3.0 (1/8")	3.0 (1/8")	6.0 (1/4")	6.5 (1/4")	6.5 (1/4")	6.5 (1/4")	6.5 (1/4")
	770	-	6.5 (1/4")	6.5 (1/4")	6.5 (1/4")	-	-	-	-

Angle Drills

Compact 90° Angle Head 0.3 kW (0.4 hp) - 1000 to 5500 rpm



Interchangeable lever included



A



B

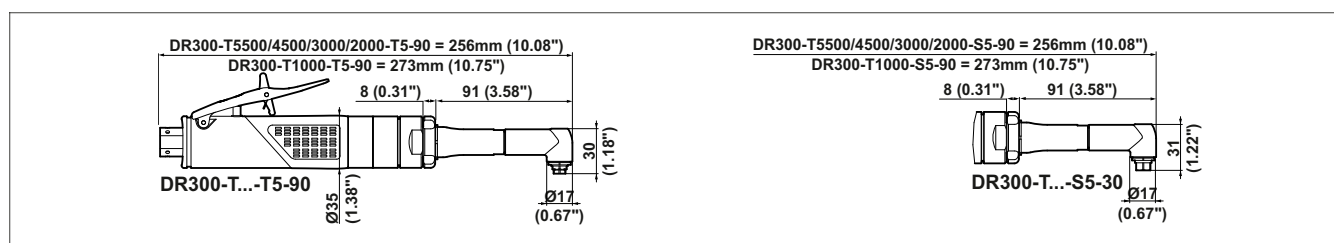


C

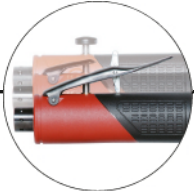


D

Accessories: see page 267



PIC REF	MODEL	PART NUMBER	FREE SPEED	MOTOR POWER		WEIGHT		AIR FLOW		AIR INLET		HOSE INT. Ø	
			rpm	kW	hp	kg	lb	l/s	cfm	in.	mm	in.	
COLLET SPINDLE - 5mm (3/16") CAPACITY													
A	DR300-T5500-T5-90	205 147 551 4	5500	0.3	0.4	0.62	1.36	9.5	20	1/4	6	1/4	
A	DR300-T4500-T5-90	205 147 549 4	4500	0.3	0.4	0.62	1.36	9.5	20	1/4	6	1/4	
A	DR300-T3000-T5-90	205 147 547 4	3000	0.3	0.4	0.62	1.36	9.5	20	1/4	6	1/4	
A	DR300-T2000-T5-90	205 147 545 4	2000	0.3	0.4	0.62	1.36	9.5	20	1/4	6	1/4	
B	DR300-T1000-T5-90	205 147 543 4	1000	0.3	0.4	0.70	1.54	9.5	20	1/4	6	1/4	
1/4" x 28 SPINDLE - MAX. CAPACITY: 5mm (3/16")													
C	DR300-T5500-S5-90	205 147 552 4	5500	0.3	0.4	0.62	1.36	9.5	20	1/4	6	1/4	
C	DR300-T4500-S5-90	205 147 550 4	4500	0.3	0.4	0.62	1.36	9.5	20	1/4	6	1/4	
C	DR300-T3000-S5-90	205 147 548 4	3000	0.3	0.4	0.62	1.36	9.5	20	1/4	6	1/4	
C	DR300-T2000-S5-90	205 147 546 4	2000	0.3	0.4	0.62	1.36	9.5	20	1/4	6	1/4	
D	DR300-T1000-S5-90	205 147 544 4	1000	0.3	0.4	0.70	1.54	9.5	20	1/4	6	1/4	



Interchangeable lever included

Angle Drills

Standard 90° Angle Head
 0.3 kW (0.4 hp) - 550 to 5500 rpm



A



B

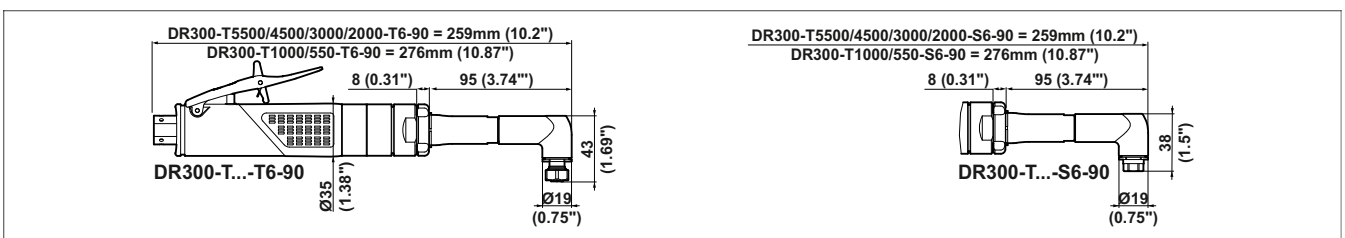


C



D

Accessories: see page 267

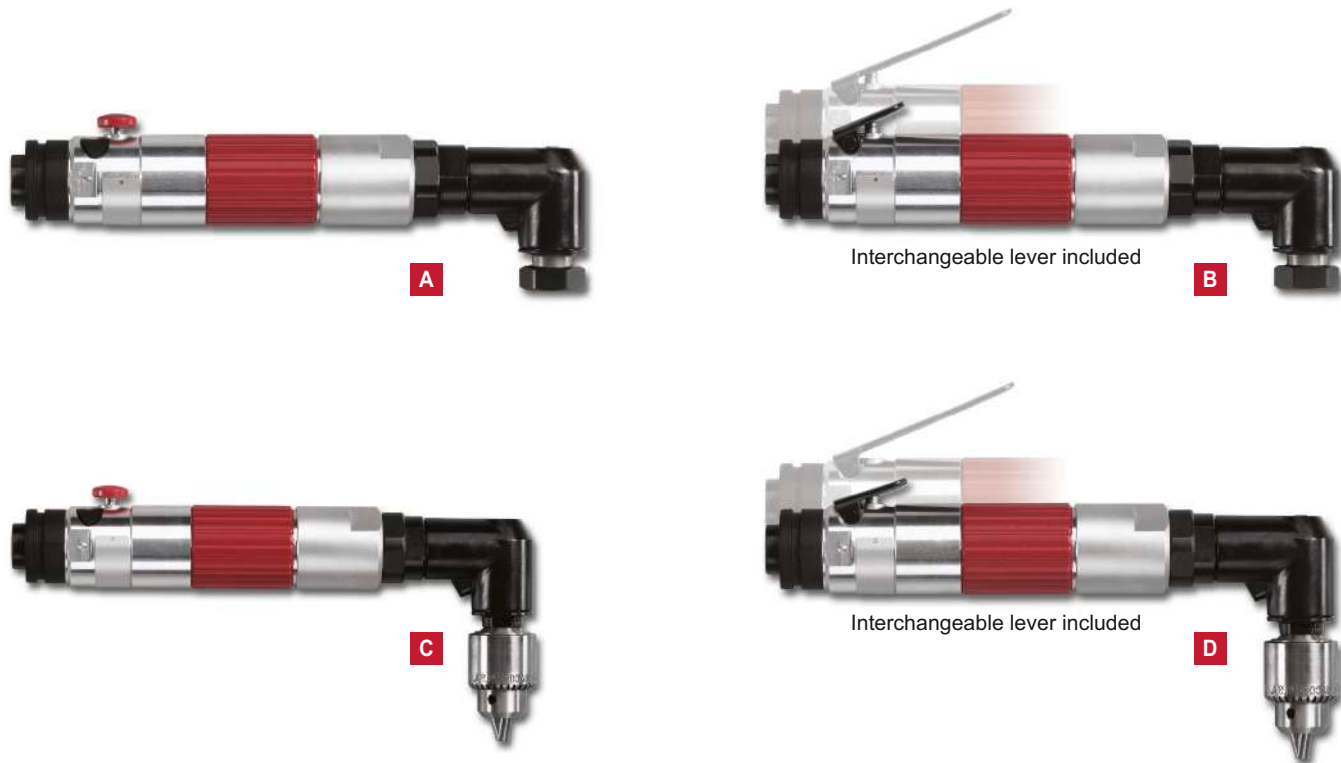


PIC REF	MODEL	PART NUMBER	FREE SPEED		MOTOR POWER		WEIGHT		AIR FLOW		AIR INLET		HOSE INT. Ø	
			rpm	kW	hp	kg	lb	l/s	cfm	in.	mm	in.		
COLLET SPINDLE - 6.4mm (1/4") CAPACITY														
A	DR300-T5500-T6-90	205 147 598 4	5500	0.3	0.4	0.68	1.50	9.5	20	1/4	6	1/4		
A	DR300-T4500-T6-90	205 147 595 4	4500	0.3	0.4	0.68	1.50	9.5	20	1/4	6	1/4		
A	DR300-T3000-T6-90	205 147 592 4	3000	0.3	0.4	0.68	1.50	9.5	20	1/4	6	1/4		
A	DR300-T2000-T6-90	205 147 589 4	2000	0.3	0.4	0.68	1.50	9.5	20	1/4	6	1/4		
B	DR300-T1000-T6-90	205 147 586 4	1000	0.3	0.4	0.76	1.67	9.5	20	1/4	6	1/4		
B	DR300-T550-T6-90	205 147 583 4	550	0.3	0.4	0.76	1.67	9.5	20	1/4	6	1/4		
1/4" x 28 SPINDLE - MAX. CAPACITY: 6.4mm (1/4")														
C	DR300-T5500-S6-90	205 147 599 4	5500	0.3	0.4	0.68	1.50	9.5	20	1/4	6	1/4		
C	DR300-T4500-S6-90	205 147 596 4	4500	0.3	0.4	0.68	1.50	9.5	20	1/4	6	1/4		
C	DR300-T3000-S6-90	205 147 593 4	3000	0.3	0.4	0.68	1.50	9.5	20	1/4	6	1/4		
C	DR300-T2000-S6-90	205 147 590 4	2000	0.3	0.4	0.68	1.50	9.5	20	1/4	6	1/4		
D	DR300-T1000-S6-90	205 147 587 4	1000	0.3	0.4	0.76	1.67	9.5	20	1/4	6	1/4		
D	DR300-T550-S6-90	205 147 584 4	550	0.3	0.4	0.76	1.67	9.5	20	1/4	6	1/4		

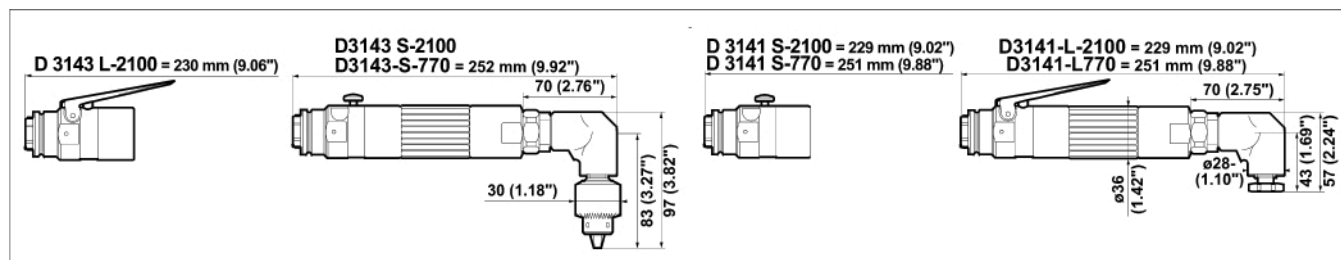
Angle Drills

Heavy Duty 90° Angle Head

0.28 kW (0.38 hp) - 770 - 2100 rpm



Accessories: see page 267



PIC REF	MODEL	PART NUMBER	FREE SPEED	MOTOR POWER		WEIGHT		AIR FLOW		AIR INLET	HOSE INT. Ø	
			rpm	kW	hp	kg	lb	l/s	cfm	in.	mm	in.

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
A	D3141-S-770	1383244	770	0.28	0.38	1.00	2.2	9.4	19.9	1/4	6	1/4

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
B	D3141-L-770	1383324	770	0.28	0.38	1.00	2.2	9.4	19.9	1/4	6	1/4

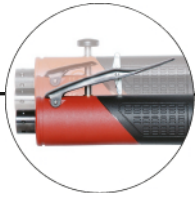
KEY CHUCK – 8mm (5/16") CAPACITY

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
C	D3143-S-770	1383664	770	0.28	0.38	1.00	2.2	9.4	19.9	1/4	6	1/4

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
---	--------------	---------	------	------	------	------	-----	-----	------	-----	---	-----



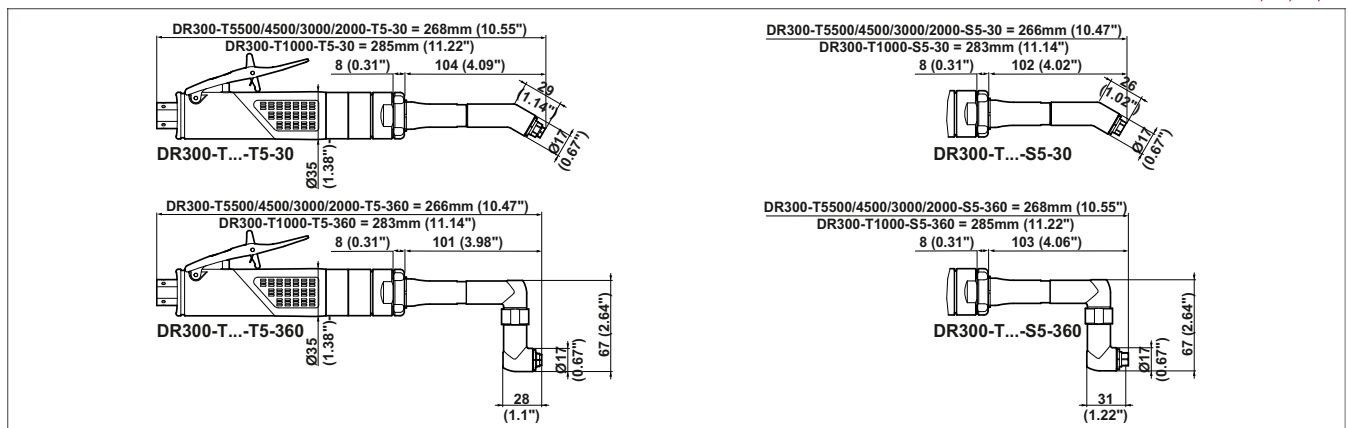
Angle Drills

Interchangeable lever included

Compact 30° and 360° Angle Head 0.3 kW (0.4 hp) - 1000 to 5500 rpm

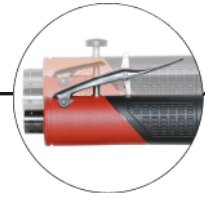


Accessories: see page 267



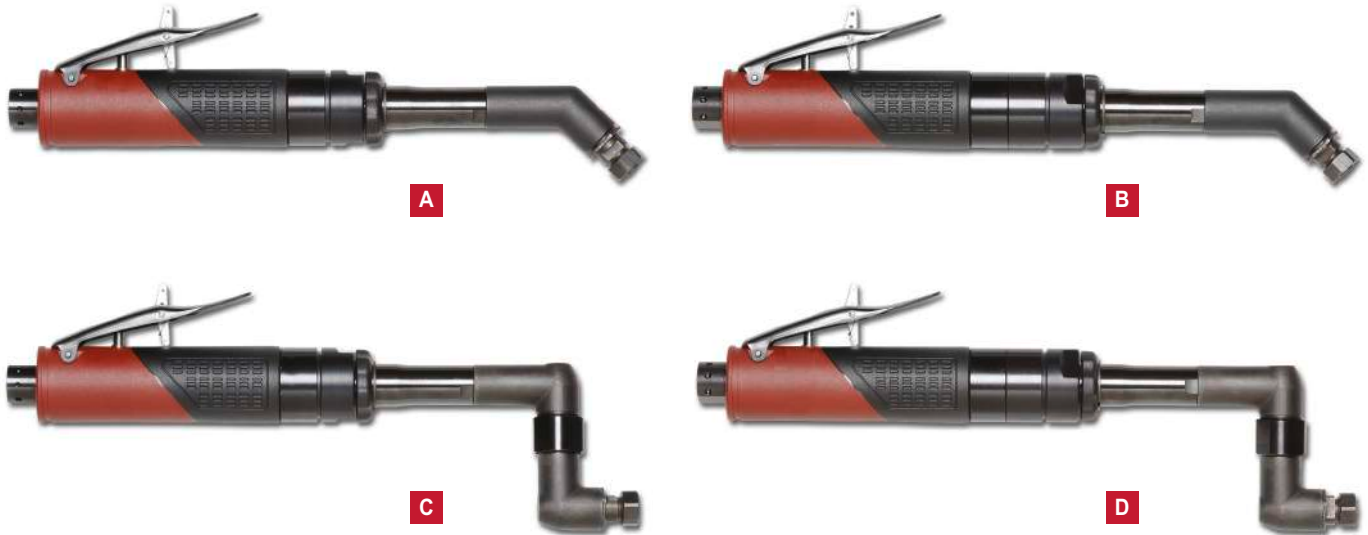
PIC REF	MODEL	PART NUMBER	FREE SPEED	MOTOR POWER		WEIGHT		AIR FLOW		AIR INLET	HOSE INT. Ø	
			rpm	kW	hp	kg	lb	l/s	cfm	in.	mm	in.
COLLET SPINDLE - 5mm (3/16") CAPACITY												
A	DR300-T5500-T5-30	205 147 539 4	5500	0.3	0.4	0.62	1.36	9.5	20	1/4	6	1/4
A	DR300-T4500-T5-30	205 147 537 4	4500	0.3	0.4	0.62	1.36	9.5	20	1/4	6	1/4
A	DR300-T3000-T5-30	205 147 535 4	3000	0.3	0.4	0.62	1.36	9.5	20	1/4	6	1/4
A	DR300-T2000-T5-30	205 147 533 4	2000	0.3	0.4	0.62	1.36	9.5	20	1/4	6	1/4
B	DR300-T1000-T5-30	205 147 531 4	1000	0.3	0.4	0.70	1.54	9.5	20	1/4	6	1/4
1/4" x 28 SPINDLE - MAX. CAPACITY: 5mm (3/16")												
A	DR300-T5500-S5-30	205 147 540 4	5500	0.3	0.4	0.62	1.36	9.5	20	1/4	6	1/4
A	DR300-T4500-S5-30	205 147 538 4	4500	0.3	0.4	0.62	1.36	9.5	20	1/4	6	1/4
A	DR300-T3000-S5-30	205 147 536 4	3000	0.3	0.4	0.62	1.36	9.5	20	1/4	6	1/4
A	DR300-T2000-S5-30	205 147 534 4	2000	0.3	0.4	0.62	1.36	9.5	20	1/4	6	1/4
B	DR300-T1000-S5-30	205 147 532 4	1000	0.3	0.4	0.70	1.54	9.5	20	1/4	6	1/4
COLLET SPINDLE - 5mm (3/16") CAPACITY												
C	DR300-T5500-T5-360	205 147 563 4	5500	0.3	0.4	0.70	1.54	9.5	20	1/4	6	1/4
C	DR300-T4500-T5-360	205 147 561 4	4500	0.3	0.4	0.70	1.54	9.5	20	1/4	6	1/4
C	DR300-T3000-T5-360	205 147 559 4	3000	0.3	0.4	0.70	1.54	9.5	20	1/4	6	1/4
C	DR300-T2000-T5-360	205 147 557 4	2000	0.3	0.4	0.70	1.54	9.5	20	1/4	6	1/4
D	DR300-T1000-T5-360	205 147 555 4	1000	0.3	0.4	0.78	1.72	9.5	20	1/4	6	1/4
1/4" x 28 SPINDLE - MAX. CAPACITY: 5mm (3/16")												
C	DR300-T5500-S5-360	205 147 564 4	5500	0.3	0.4	0.70	1.54	9.5	20	1/4	6	1/4
C	DR300-T4500-S5-360	205 147 562 4	4500	0.3	0.4	0.70	1.54	9.5	20	1/4	6	1/4
C	DR300-T3000-S5-360	205 147 560 4	3000	0.3	0.4	0.70	1.54	9.5	20	1/4	6	1/4
C	DR300-T2000-S5-360	205 147 558 4	2000	0.3	0.4	0.70	1.54	9.5	20	1/4	6	1/4
D	DR300-T1000-S5-360	205 147 556 4	1000	0.3	0.4	0.78	1.72	9.5	20	1/4	6	1/4

Angle Drills

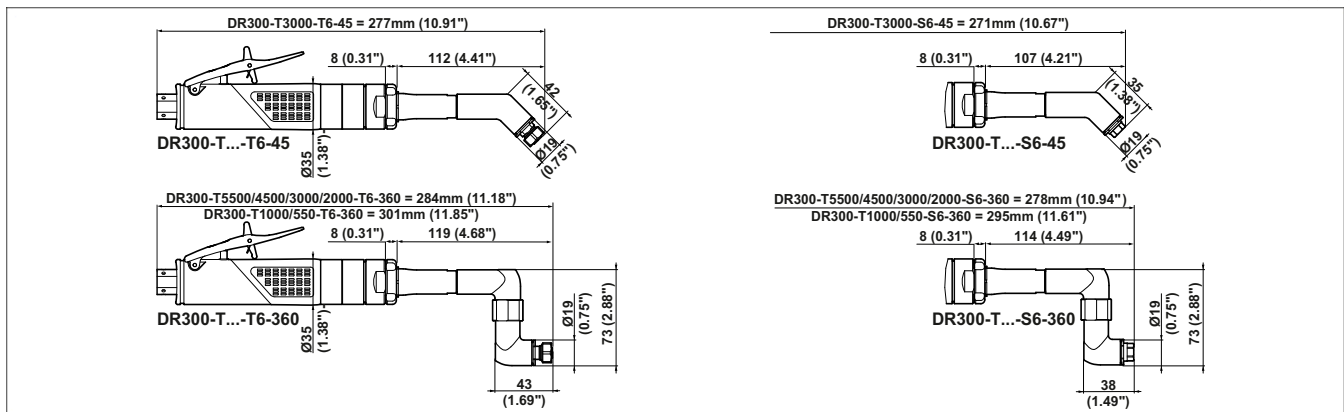


Interchangeable lever included

Standard 45° and 360° Angle Head
 0.3 kW (0.4 hp) - 550 to 5500 rpm



Accessories: see page 267



PIC REF	MODEL	PART NUMBER	FREE SPEED	MOTOR POWER		WEIGHT		AIR FLOW		AIR INLET		HOSE INT. Ø	
			rpm	kW	hp	kg	lb	l/s	cfm	in.	mm	in.	

COLLET SPINDLE - 6.4mm (1/4") CAPACITY

A	DR300-T3000-T6-45	205 147 574 4	3000	0.3	0.4	0.68	1.49	9.5	20	1/4	6	1/4
---	-------------------	---------------	------	-----	-----	------	------	-----	----	-----	---	-----

1/4" x 28 SPINDLE - MAX. CAPACITY: 6.4mm (1/4")

A	DR300-T3000-S6-45	205 147 575 4	3000	0.3	0.4	0.68	1.49	9.5	20	1/4	6	1/4
---	-------------------	---------------	------	-----	-----	------	------	-----	----	-----	---	-----

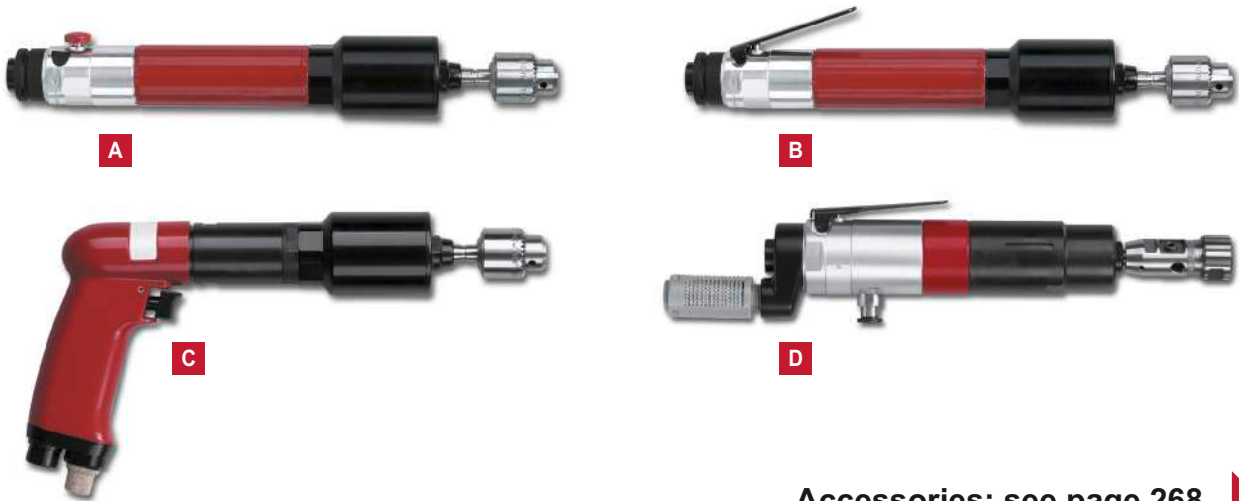
COLLET SPINDLE - 6.4mm (1/4") CAPACITY

C	DR300-T5500-T6-360	205 147 616 4	5500	0.3	0.4	0.77	1.69	9.5	20	1/4	6	1/4
C	DR300-T4500-T6-360	205 147 613 4	4500	0.3	0.4	0.77	1.69	9.5	20	1/4	6	1/4
C	DR300-T3000-T6-360	205 147 610 4	3000	0.3	0.4	0.77	1.69	9.5	20	1/4	6	1/4
C	DR300-T2000-T6-360	205 147 607 4	2000	0.3	0.4	0.77	1.69	9.5	20	1/4	6	1/4
D	DR300-T1000-T6-360	205 147 604 4	1000	0.3	0.4	0.85	1.87	9.5	20	1/4	6	1/4
D	DR300-T550-T6-360	205 147 601 4	550	0.3	0.4	0.85	1.87	9.5	20	1/4	6	1/4

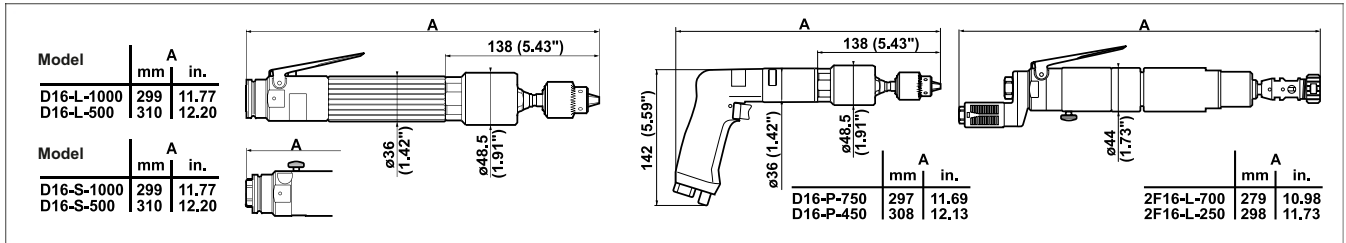
1/4" x 28 SPINDLE - MAX. CAPACITY: 6.4mm (1/4")

C	DR300-T5500-S6-360	205 147 617 4	5500	0.3	0.4	0.77	1.69	9.5	20	1/4	6	1/4
C	DR300-T4500-S6-360	205 147 614 4	4500	0.3	0.4	0.77	1.69	9.5	20	1/4	6	1/4
C	DR300-T3000-S6-360	205 147 611 4	3000	0.3	0.4	0.77	1.69	9.5	20	1/4	6	1/4
C	DR300-T2000-S6-360	205 147 608 4	2000	0.3	0.4	0.77	1.69	9.5	20	1/4	6	1/4
D	DR300-T1000-S6-360	205 147 605 4	1000	0.3	0.4	0.85	1.87	9.5	20	1/4	6	1/4
D	DR300-T550-S6-360	205 147 602 4	550	0.3	0.4	0.85	1.87	9.5	20	1/4	6	1/4

Tappers



Accessories: see page 268 



PIC REF	MODEL	PART NUMBER	FREE SPEED		REVERSE SPEED		CHUCK SIZE		MAX. TAPPING TORQUE		WEIGHT		AIR FLOW		AIR INLET		HOSE INT. Ø	
			rpm	rpm	mm	in.	N.m	ft.lb	kg	lb	l/s	cfm	in.	mm	in.			

D SERIES

Button Start – push/pull reverse

A	D16-S-1000	1274544	1000	2000	6.5	1/4	4.3	3.17	1.3	2.86	9.4	19.9	1/4	10	3/8
A	D16-S-500	1274384	500	1000	10.0	3/8	8.6	6.34	1.4	3.08	9.4	19.9	1/4	10	3/8

Lever Start – push/pull reverse

B	D16-L-1000	1274624	1000	2000	6.5	1/4	4.3	3.17	1.3	2.86	9.4	19.9	1/4	10	3/8
B	D16-L-500	1274464	500	1000	10.0	3/8	8.6	6.34	1.4	3.08	9.4	19.9	1/4	10	3/8

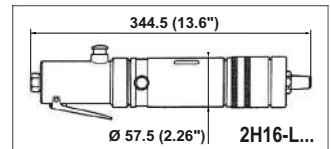
Trigger Start – push/pull reverse

C	D16-P-750	1288084	750	1500	6.5	1/4	6.2	4.57	1.7	3.75	8.5	18.0	1/4	10	3/8
C	D16-P-450	1287934	450	900	10.0	3/8	11.1	8.18	1.8	3.97	8.5	18.0	1/4	10	3/8

F SERIES

Lever Start – button reverse – stand mounted

D	2F16-L-700	1241394	700	700	6.5	1/4	6.7	4.94	1.7	3.75	11.1	23.5	1/4	10	3/8
D	2F16-L-250	1241474	250	250	6.5	1/4	17.5	12.90	1.8	3.97	11.1	23.5	1/4	10	3/8



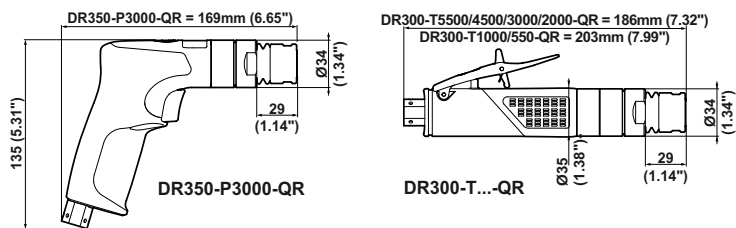
PIC REF	MODEL	PART NUMBER	LOW SPEED SETTING		HIGH SPEED SETTING		MAX. TAPPING TORQUE		WEIGHT		AIR FLOW		AIR INLET		HOSE INT. Ø	
			rpm	rpm	N.m	ft.lb	N.m	ft.lb	kg	lb	l/s	cfm	in.	mm	in.	

H SERIES

Lever Start - button reverse - stand mounted

E	2H16-L-250/800 - B16	1452444	250	800	90	66.4	29	21.4	3.1	6.8	15.6	33	3/8	10	3/8
E	2H16-L-250/800 - B18	1434184	250	800	90	66.4	29	21.4	3.1	6.8	15.6	33	3/8	10	3/8
E	2H16-L-160/500 - B18	1434264	130	500	140	103.3	47	34.7	3.1	6.8	15.6	33	3/8	10	3/8
E	2H16-L-90/250 - B18	1434344	90	250	240	177.0	90	66.4	3.1	6.8	15.6	33	3/8	10	3/8

Accessories



DR350-P3000-QR / DR300-T550/1000/2000/3000/4500/5500-QR

ACCESSORIES INCLUDED

ITEM	ANGLE HEAD	DRILLS
• ø 4.8mm (3/16") capacity collet	205 050 331 3	205 050 353 3
• ø 6.4mm (1/4") capacity collet	205 050 341 3	DR300
• ø 8mm (5/16") capacity collet	205 050 335 3	
1 Short lever	2552	
2 Safety lever		615 526 088 0
3 Inlet button (with lever recess plugs)		205 050 299 3
4 Side handle (for DR300-T550/1000/2000/3000)		205 050 288 3
• Exhaust hose (with clamping)		205 050 045 3
• Wrench 8-9mm (Qty 2)	268263	205 050 746 3
• Wrench 10mm	82623	



OPTIONAL ACCESSORIES

ITEM	PART NO.
4 Side handle	205 049 446 3



Collet Capacity	205 050 331 3	205 050 338 3	205 050 353 3	Collet Capacity	205 050 331 3	205 050 338 3	205 050 353 3
	A	B	C		A	B	C
• ø 1.0mm	2172			• ø 3.9mm	2462		
• ø 1.1mm	2182			• ø 4.0mm (5/32")	2472	19052	615 526 071 0
• ø 1.2mm	2192			• ø 4.1mm	2482		
• ø 1.3mm	2202			• ø 4.2mm	2492	19062	
• ø 1.4mm	2212			• ø 4.3mm	2502		
• ø 1.5mm	2222			• ø 4.4mm	2512	19072	
• ø 1.6mm	2232	18922		• ø 4.5mm	2522		615 526 073 0
• ø 1.7mm	2242			• ø 4.6mm	2532	19082	
• ø 1.8mm	2252	18932		• ø 4.7mm	2542		
• ø 1.9mm	2262			• ø 4.8mm (3/16")	2552	19092	
• ø 2.0mm	2272	18942	615 526 066 0	• ø 4.9mm	2562		
• ø 2.1mm	2282			• ø 5.0mm	2572	19102	615 526 075 0
• ø 2.2mm	2292	18952		• ø 5.2mm		19122	
• ø 2.3mm	2302			• ø 5.4mm		19132	615 526 077 0
• ø 2.4mm (3/32")	2312			• ø 5.5mm			615 526 077 0
• ø 2.5mm	2322		615 526 068 0	• ø 5.6mm		19142	
• ø 2.6mm	2332	18972		• ø 5.8mm		19152	
• ø 2.7mm	2342			• ø 6.0mm		19162	615 526 079 0
• ø 2.8mm	2352	18982		• ø 6.2mm		19172	
• ø 2.9mm	2362			• ø 6.4mm		19182	
• ø 3.0mm	2372	18992	615 526 069 0	• ø 6.5mm			615 526 081 0
• ø 3.1mm	2382			• ø 7.0mm			615 526 083 0
• ø 3.2mm (1/8")	2392	19002		• ø 7.5mm			615 526 084 0
• ø 3.3mm	2402			• ø 8.0mm			615 526 088 0
• ø 3.4mm	2412	19022		• ø 1/16"	91442		
• ø 3.5mm	2422		615 526 070 0	• ø 3/32"	91452		
• ø 3.6mm	2432	19032		• ø 1/8"	91462		
• ø 3.7mm	2442			• ø 5/32"	91472		
• ø 3.8mm	2452	19042		• ø 3/16"	91482		



CHUCK MOUNTING

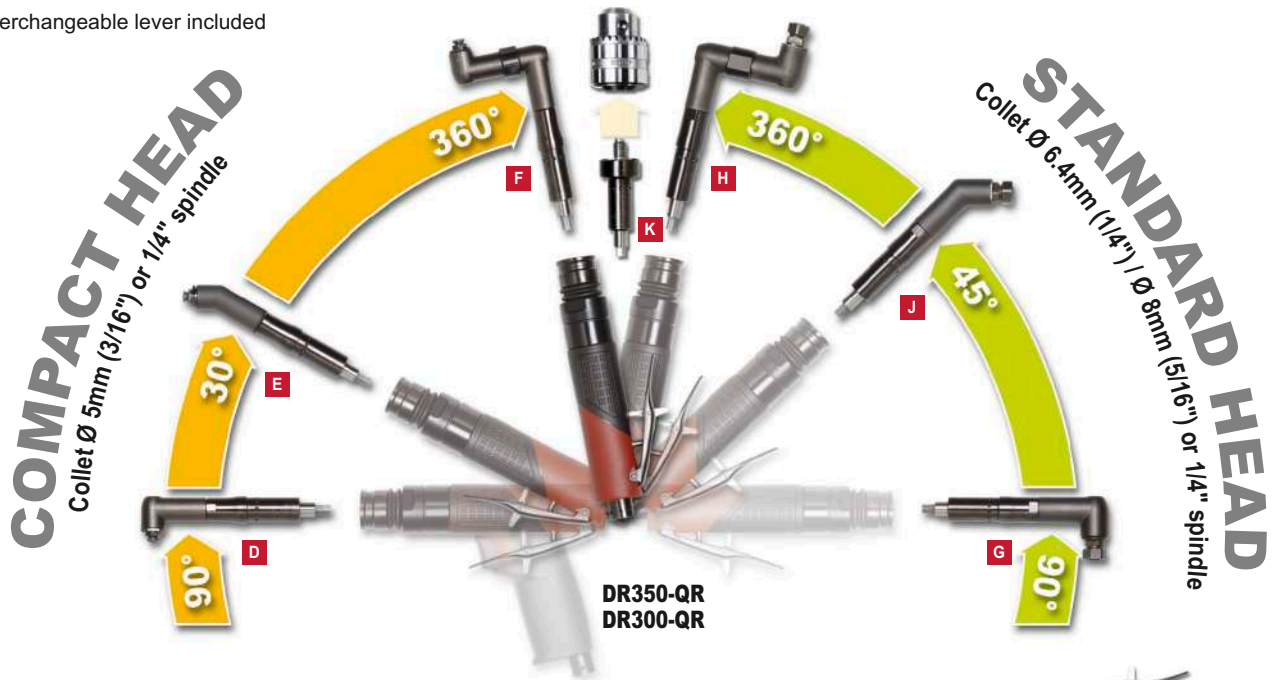
3/8" x 24 tpi
205 050 543 3

- Chuck threaded 3/8" UNF cap. 8mm (5/16") (with key) 205 053 013 3
- Keyless Chuck threaded 3/8" UNF- cap. 8mm (5/16") 473433

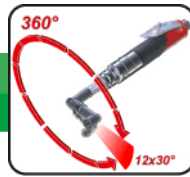
Multi Drills

0.3 - 0.35 kW (0.4 - 0.5 hp) - 550 to 5500 rpm

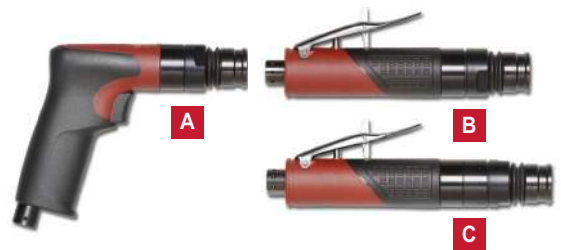
Interchangeable lever included



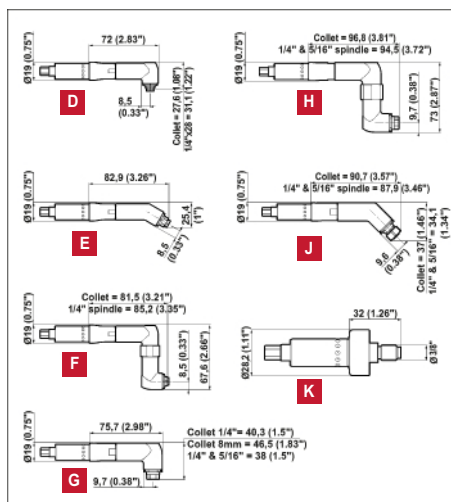
Quick-Release head



12 positions, 360° orientation



PIC REF	MODEL	PART NUMBER	FREE SPEED		MOTOR POWER		STALL TORQUE		WEIGHT		AIR FLOW		HOSE INT. Ø		
			rpm		kW	hp	Nm	in.lb.	kg	lb	l/s	cfm	in.	mm	in.
MULTI DRILLS															
A	DR350-P3000-QR	205 147 528 4	3000		0.35	0.5	4.0	35.4	0.50	1.10	9.5	20	1/4	6	1/4
B	DR300-T5500-QR	205 147 527 4	5500		0.30	0.4	2.3	20.4	0.50	1.10	9.5	20	1/4	6	1/4
B	DR300-T4500-QR	205 147 526 4	4500		0.30	0.4	2.7	23.9	0.50	1.10	9.5	20	1/4	6	1/4
B	DR300-T3000-QR	205 147 525 4	3000		0.30	0.4	4.0	35.4	0.50	1.10	9.5	20	1/4	6	1/4
B	DR300-T2000-QR	205 147 524 4	2000		0.30	0.4	5.4	47.8	0.50	1.10	9.5	20	1/4	6	1/4
C	DR300-T1000-QR	205 147 523 4	1000		0.30	0.4	12.7	112.4	0.58	1.27	9.5	20	1/4	6	1/4
C	DR300-T550-QR	205 147 522 4	550		0.30	0.4	18.6	164.6	0.58	1.27	9.5	20	1/4	6	1/4



PIC	PART NUMBER	DESIGNATION	COLLET MAX. CAPACITY		WEIGHT	
			mm	in.	kg	lb
D	205 050 331 3	Compact 90° Angle Head - Collet spindle	5.0	3/16	0.17	0.37
D	205 050 332 3	Compact 90° Angle Head - 1/4" x 28 spindle			0.17	0.37
E	205 050 329 3	Compact 30° Angle Head - Collet spindle	5.0	3/16	0.17	0.37
E	205 050 330 3	Compact 30° Angle Head - 1/4" x 28 spindle			0.17	0.37
F	205 050 333 3	Compact 360° Angle Head - Collet spindle	5.0	3/16	0.25	0.55
F	205 050 334 3	Compact 360° Angle Head - 1/4" x 28 spindle			0.25	0.55
G	205 050 338 3	Standard 90° Angle Head - Collet spindle	6.4	1/4	0.23	0.51
G	205 050 353 3	Standard 90° Angle Head - Collet spindle	8.0	5/16	0.24	0.53
G	205 050 339 3	Standard 90° Angle Head - 1/4" x 28 spindle			0.23	0.51
G	205 050 340 3	Standard 90° Angle Head - 5/16" x 24 spindle			0.23	0.51
H	205 050 341 3	Standard 360° Angle Head - Collet spindle	6.4	1/4	0.32	0.70
H	205 050 342 3	Standard 360° Angle Head - 1/4" x 28 spindle			0.32	0.70
H	205 050 343 3	Standard 360° Angle Head - 5/16" x 24 spindle			0.32	0.70
J	205 050 335 3	Standard 45° Angle Head - Collet spindle	6.4	1/4	0.23	0.51
J	205 050 336 3*	Standard 45° Angle Head - 1/4" x 28 spindle			0.23	0.51
K	205 050 543 3	Chuck mounting 3/8" x 24 UNF			0.25	0.55

* Recommended drilling speed: 3000 rpm

Speciality Tools

Offset Angle Heads

Introduction

Offset Angle Heads are used to provide solutions to drill holes in areas where access is very limited.

Two types of offset angle head module (standard and extended reach) suitable for mounting to the D23 (straight and pistol versions) drill are available.

To order please ensure that you list both the D23 Drill plus the Offset Angle Head to suit your requirements.

e.g.: D23-P-700 + Standard reach Part No. 108302



Offset-Kopf	Part No.	A		B	
		mm	in.	mm	in.
Standard reach	108302	28	1.10	59	2.32
Extended reach	108312	50	1.97	78	3.07

The technical drawing shows the D23 drill and the offset angle head module. The D23 drill has a diameter of 40 mm (1.57 inches). The offset angle head module has a length of 165 mm (6.5 inches) and a diameter of 11.5 mm (0.45 inches). The module is labeled as a D32 type collet. The drawing also shows the dimensions of the module's body, which are 22 mm (0.86 inches) in diameter and 11.5 mm (0.45 inches) in length.

PIC REF	MODEL	PART NUMBER	FREE SPEED		CHUCK SIZE		MOTOR POWER		STALL TORQUE		WEIGHT		AIR FLOW	AIR INLET	HOSE INT. Ø	
			rpm		mm	in.	kW	hp	Nm	in.lb.	kg	lb	l/s	in.	mm	in.

PISTOL GRIP DRILLS – TRIGGER START – D SERIES

A	D23-P-6000	1364374	6000	8.0	0.315	0.28	0.38	2.0	17.7	0.90	1.98	8.5	1/4	10	3/8
A	D23-P-4600	1364454	4600	8.0	0.315	0.28	0.38	2.0	17.7	0.90	1.98	8.5	1/4	10	3/8
A	D23-P-2900	1364534	2900	8.0	0.315	0.28	0.38	3.0	26.6	0.90	1.98	8.5	1/4	10	3/8
A	D23-P-1800	1364794	1800	8.0	0.315	0.28	0.38	5.0	44.3	1.10	2.42	8.5	1/4	10	3/8
A	D23-P-1100	1364874	1100	8.0	0.315	0.28	0.38	9.0	79.7	1.10	2.42	8.5	1/4	10	3/8
A	D23-P-700	1364954	700	8.0	0.315	0.28	0.38	15.0	132.8	1.10	2.42	8.5	1/4	10	3/8
A	D23-P-400	1365004	400	8.0	0.315	0.28	0.38	24.0	212.0	1.10	2.42	8.5	1/4	10	3/8

STRAIGHT GRIP DRILLS – LEVER START – D SERIES

B	D23-L-5700	1362914	5700	8.0	0.315	0.28	0.38	2.0	17.7	0.70	1.54	9.4	1/4	10	3/8
B	D23-L-4400	1363144	4400	8.0	0.315	0.28	0.38	2.0	17.7	0.70	1.54	9.4	1/4	10	3/8
B	D23-L-2800	1363304	2800	8.0	0.315	0.28	0.38	3.0	26.6	0.84	1.85	9.4	1/4	10	3/8
B	D23-L-1750	1363564	1750	8.0	0.315	0.28	0.38	6.0	53.1	0.84	1.85	9.4	1/4	10	3/8
B	D23-L-1050	1363724	1050	8.0	0.315	0.28	0.38	10.0	88.5	0.84	1.85	9.4	1/4	10	3/8
B	D23-L-400	1363984	400	8.0	0.315	0.28	0.38	25.0	221.3	0.84	1.85	9.4	1/4	10	3/8

STRAIGHT GRIP DRILLS – BUTTON START – D SERIES

•	D23-S-4400	1363064	4400	8.0	0.315	0.28	0.38	2.0	17.7	0.70	1.54	9.4	1/4	10	3/8
•	D23-S-2800	1363224	2800	8.0	0.315	0.28	0.38	3.0	26.6	0.70	1.54	9.4	1/4	10	3/8
•	D23-S-1750	1363484	1750	8.0	0.315	0.28	0.38	6.0	53.1	0.84	1.85	9.4	1/4	10	3/8
•	D23-S-1050	1363644	1050	8.0	0.315	0.28	0.38	10.0	88.5	0.84	1.85	9.4	1/4	10	3/8
•	D23-S-400	1363804	400	8.0	0.315	0.28	0.38	25.0	221.3	0.84	1.85	9.4	1/4	10	3/8

Hole Deburring & Rivet Shaving



A



B



C



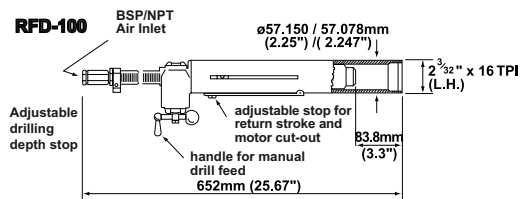
D

Accessories: see page 269

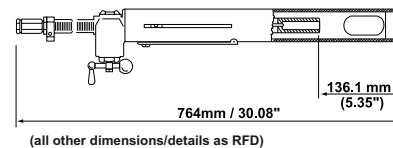


PIC REF	MODEL	PART NUMBER	FREE SPEED	COLLET SIZE	MAXIMUM CUTTER DIA.		WEIGHT		LENGTH		AIR FLOW		AIR INLET	HOSE INT. Ø	
					mm	in.	kg	lb	mm	in.	l/s	cfm		mm	in.
			rpm	mm	mm	in.	kg	lb	mm	in.	l/s	cfm	in.	mm	in.
HOLE DEBURRING TOOLS – PUSH TO START															
(integral speed regulator)															
A	A27-A-1300	1406594	100 - 1300	4	–	–	0.24	0.52	172	6.77	2.4	5.0	M5	3	1/8
B	C27-AX-1450	1405414	100 - 1450	6	–	–	0.48	1.05	218	8.58	6.2	13.0	1/4	6	1/4
RIVET SHAVERS (for accessory 1/4"-26 WHIT)															
C	D156-S-20000	1275194	20000	–	14.3	9/16	1.0	2.2	232	9.13	9.3	19.7	1/4	10	3/8
D	D156-P-20000	147664	20000	–	14.3	9/16	1.1	2.4	203	7.99	9.3	19.7	1/4	10	3/8
RIVET SHAVERS (for accessory 1/4"-28 UNF)															
D	D156-P-20000	205 146 600 4	20000	–	14.3	9/16	1.1	2.4	203	7.99	9.3	19.7	1/4	10	3/8

Accessories



RFD-125



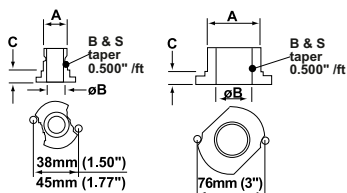
RFD-100 / RFD-125

ACCESSORIES INCLUDED

	PART NO.	
	RFD	RFD-125
• Chuck with key capacity 13mm (1/2")	29142	
• Extended Nose (1" x 14 TPI LH nose thread)	251043	
• Bayonet Plate – 45mm (1.77") centres	251063	
• Bayonet Plate – 76mm (2.99") centres		35323

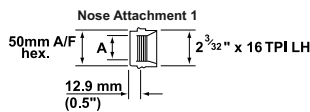
OPTIONAL ACCESSORIES

	PART NO.
	RFD
• Chuck Key	29242



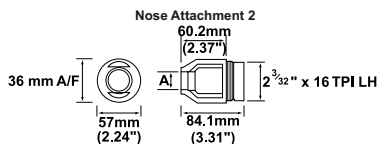
Bayonet Plates

	PART NO.			
	'A'	'ØB'	'C'	
• Locating centres – 38mm (1.50")	3/4" x 16 TPI (LH)	14.2mm (0.559")	9.5mm (3/8")	251053
• Locating centres – 45mm (1.77")	1" x 14 TPI (LH)	19.05mm (3/4")	9.5mm (3/8")	251063
• Locating centres – 45mm (1.77")	1 1/8" x 20 TPI (LH)	19.05mm (3/4")	9.5mm (3/8")	31113
• Locating centres – 76mm (2.99")	2 3/32" x 16 TPI (LH)	38.1mm (1.150")	12.7mm (1/2")	35323



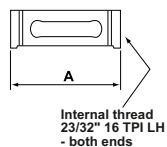
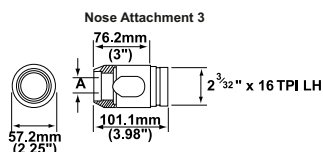
Nose Attachments

Nose type	To suit bayonet plate centres	Thread 'A'	PART NO.
1	38mm (1.50")	3/4" x 16 TPI (LH)	235773
2	38mm (1.50")	3/4" x 16 TPI (LH)	251033
3	45mm (1.77")	1" x 14 TPI (LH)	251043
3	–	1 1/4" x 12 TPI (LH)	235213
3	–	1 1/2" x 12 TPI (LH)	235223
3	–	2" x 16 TPI (LH)	235343



Extension Tubes

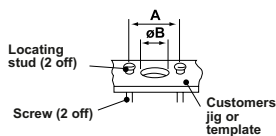
Nominal stroke available to drill	Length 'A'	PART NO.
80mm / (3.15")	170mm / (6.69")	250923



Jig Plates

Centres 'A'	PART NO.	
	LOCATING STUD	SCREW
38mm (1.50")	17632	17642
45mm (1.77")	17632	17642

For dimension 'ØB' please ask for details of our range of drill bushes.



1. Push nose into jig



2. Give quarter turn counter clockwise to lock

Rack Feed Drills

- The Rack Feed Drill is a semi-fixtured (nose mounted) portable drilling unit, utilising a manual feed through an integral “rack and pinion” mechanism to accommodate the approach drilling and retract cycles. This provides the user with complete control of the feed rate during drilling and allows the user to “feel” the feed rate required. Versatile and flexible, especially when drilling laminates and sandwich materials.
- RFD is suitable for drilling/reaming various materials used in the Aerospace industries e.g. Inconel, Titanium, Steel, Aluminium and Composites.
- A wide speed range from 60 rpm to 2800 rpm is available allowing the best speed to be selected to suit the application.
- RFD-100 provides 102mm (4") of adjustable working stroke length with a 13mm (1/2") chuck capacity.
- RFDT-125 provides 127mm (5") of adjustable working stroke length with a No. 2 Morse Taper drive spindle.
- Automatic motor start/stop – can be set to operate at any point within stroke setting for maximum economy of air.
- Various nose configurations can be provided.



RFD Selection

DRILL DIA.	MATERIAL			
	Inconel	Titanium	Mild Steel	Aluminium
3mm 1/8"	RFD-330/500 RFDT-330/500	RFD-500 RFDT-500	RFD-2800	RFD-2800
5mm 3/16"	RFD-140/330 RFDT-140/330	RFD-330/500 RFDT-330/500	RFD-1850	RFD-2800
6mm 1/4"	RFD-140 RFDT-140	RFD-140/330 RFDT-140/330	RFD-800 RFDT-800	RFD-1850
8mm 5/16"	RFD-140 RFDT-140	RFD-140/330 RFDT-140/330	RFD-800 RFDT-800	RFD-800 RFDT-800
10mm 3/8"	RFD-85/140 RFDT-85/140	RFD-140 RFT-140	RFD-800 RFDT-800	RFD-800 RFDT-800
13mm 1/2"	RFD-60/85 RFDT-60/85	RFD-85/140 RFDT-85/140	RFD-500 RFDT-500	RFD-800 RFDT-800
16mm 5/8"		RFD-85/140 RFDT-85/140	RFD-330 RFDT-330	RFD-800 RFDT-800
19mm 3/4"		RFD-60/85 RFDT-60/85	RFD-85/140 RFDT-85/140	RFD-330/500 RFDT-330/500
25mm 1"			RFD-60/85 RFDT-60/85	RFD-140/330 RFDT-140/330

Use selection data as a guide only

MODEL	PART NUMBER	FREE SPEED	MAX STROKE		OUTPUT SPINDLE	WEIGHT		AIR CONSUMPTION		AIR INLET	HOSE INT. Ø	
			mm	in.		kg	lb	l/s	cfm	in.	mm	in.
RFD-100-2800	681214	2800	102	4		3.9	8.6	11.8	25	1/4	10	3/8
RFD-100-1850	681394	1850	102	4		3.9	8.6	11.8	25	1/4	10	3/8
RFD-100-800	680084	800	102	4	Chuck	3.9	8.6	11.8	25	1/4	10	3/8
RFD-100-500	680164	500	102	4	13mm	3.9	8.6	11.8	25	1/4	10	3/8
RFD-100-330	680244	330	102	4	1/2"	3.9	8.6	11.8	25	1/4	10	3/8
RFD-100-140	1457364	140	102	4	capacity	3.9	8.6	11.8	25	1/4	10	3/8
RFD-100-85	1457374	85	102	4		3.9	8.6	11.8	25	1/4	10	3/8
RFD-100-60	1457384	60	102	4		3.9	8.6	11.8	25	1/4	10	3/8
RFDT-125-800	1445654	800	127	5		5.5	12.1	11.8	25	1/4	10	3/8
RFDT-125-500	1445664	500	127	5	No. 2	5.5	12.1	11.8	25	1/4	10	3/8
RFDT-125-330	1445674	330	127	5	Morse	5.5	12.1	11.8	25	1/4	10	3/8
RFDT-125-140	1445504	140	127	5	Taper	5.5	12.1	11.8	25	1/4	10	3/8
RFDT-125-85	1445514	85	127	5		5.5	12.1	11.8	25	1/4	10	3/8
RFDT-125-60	1445524	60	127	5		5.5	12.1	11.8	25	1/4	10	3/8

Accessories for Pistol & Straight Grip Drills

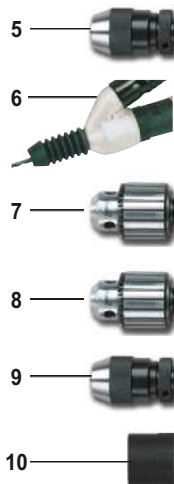
DR350-P... / DR500-P... / DR750-P...

ACCESSORIES INCLUDED



ITEM	DR350-P...C8	DR350-P...C10	DR500-P...C13	DR350-P...K8
	DR500-P...C8	DR500-P...C10	DR750-P...C13	DR500-P...K8/10
1 Chuck threaded 3/8" UNF - cap. 8mm (5/16") (with key)	205 053 013 3			
1 Chuck threaded 3/8" UNF - cap. 10mm (3/8") (with key)		205 052 954 3		
1 Chuck threaded 3/8" UNF - cap. 13mm (1/2") (with key)			473113	
• Chuck Key	410213	29232	29242	
2 Keyless Chuck threaded 3/8" UNF - cap. 8mm (5/16") (for K8 model)				473433
2 Keyless Chuck threaded 3/8" UNF - cap. 10mm (3/8") (for K10 model)				473423
3 Chuck Guard (for DR350-P...C8)	205 049 275 3			
3 Chuck Guard (for DR500-P...C8)	205 049 486 3			
3 Chuck Guard (for DR750-P...C8 & C10)	473143	473133		
4 Side Handle *supplied with the DR350-P550.. & DR350-P1000..	205 049 446 3*	205 049 446 3*		205 049 446 3*
4 Side handle *supplied with DR500-P400 to P1800		205 053 102 3*	205 053 102 3*	205 053 102 3*
4 Side handle (for DR750-P...)	473173	473173	473173	473173
• Suspension Bail (for DR750-P...)	473153	473153	473153	473153

OPTIONAL ACCESSORIES



ITEM	DR350-P...	DR500-P...	DR750-P.	DR750-P. JT1 MOUNT	DR750. JT2 MOUNT
• Sleeve - JT1 female to JT2 male				12243	
4 Side Handle	205 049 446 3	205 053 102 3			
5 Keyless Chuck threaded 3/8" UNF - cap. 8mm (5/16")	473433	473433	473433		
5 Keyless Chuck threaded 3/8" UNF - cap. 10mm (3/8")		473423	473423		
5 Keyless Chuck threaded 3/8" UNF - cap. 13mm (1/2")			205 047 819 3		
6 Dust extraction kit (*for DR750-P...-C8 & C10)	205 050 218 3		205 047 503 3*		
7 Chuck threaded 3/8" UNF - cap. 10mm (3/8") (with key)			31132		
• Chuck key			29232		
• Flat wrench, 12.7mm (1/2")			15533		
8 Chuck with key (29182) - cap. 6.5mm (1/4")				29492	
8 Chuck with key (29232) - cap. 10mm (3/8")				29042	34752
8 Chuck with key (29232) - cap. 13mm (1/2")					34332
9 Keyless Chuck - cap. 6.5mm (1/4")				524.09	
9 Keyless Chuck - cap. 10mm (3/8")				524.15	524.10
9 Keyless Chuck - cap. 13mm (1/2")					524.16
9 Keyless Chuck - cap. 16mm (5/8")					
10 Chuck Guard - use with chuck with key - cap. 6.5mm (1/4")				473143	
10 Chuck Guard - use with chuck with key - cap. 10mm (3/8") No. 2 Morse Taper Spindle					473133 34862

DR300-T...

ACCESSORIES INCLUDED



ITEM	DR300-T...C8	DR300-T...C10
1 Short lever	205 050 299 3	205 050 299 3
2 Safety lever	205 050 288 3	205 050 288 3
3 Inlet button with lever recess plugs	205 050 453 3	205 050 453 3
4 Chuck threaded 3/8" UNF - cap. 8mm (5/16") (with key)	205 053 013 3	
4 Chuck threaded 3/8" UNF - cap. 10mm (3/8") (with key)		205 052 654 3
• Chuck key	410213	29232
5 Chuck Guard	205 049 275 3	
• Exhaust hose (with clamp ring)	205 051 259 3	205 051 259 3
6 Side handle		205 049 446 3

ITEM	DR300-T...C8	DR300-T...C10
7 Keyless Chuck threaded 3/8" UNF - cap. 8mm (5/16")	473433	473433
8 Dust extraction kit	205 050 218 3	
9 Suspension Bail (for vertical tool suspension)	39433	39433
6 Side handle	205 049 446 3	

Accessories for Angle Drills

DR300-...-T5-90/-S5-90/-T6-90/-S6-90 DR300-...-T5-30/-360/-S5-30/-360 DR300-...-T6-45/-360/-S6-45/-360 D3141-S/-L / D3143-S/-L

ACCESSORIES INCLUDED

ITEM	DR300-T5-90	DR300-T6-90	DR300-T5-30/360	DR300-T6-45/360	DR300-S5-90/30/-360 S6-90/-45/-360	D3141-S D3141-L	D3143-S D3143-L
	• ø 4.8mm (3/16") capacity collet	2552				2552	
• ø 6.4mm (1/4") capacity collet		19182			19182		
• ø 8mm (5/16") capacity collet						2872	
1 Chuck threaded 3/8" UNF - cap. 8mm (5/16") (with key)							410203
2 Short lever	205 050 299 3	205 050 299 3	205 050 299 3	205 050 299 3	205 050 299 3	410303	410303
3 Standard lever						305893	305893
4 Safety lever	205 050 288 3	205 050 288 3	205 050 288 3	205 050 288 3	205 050 288 3		
5 Inlet button with lever recess plugs	205 050 454 3	205 050 454 3	205 050 454 3	205 050 454 3	205 050 454 3	205 050 454 3	
• Exhaust hose with clamp ring	205 050 746 3	205 050 746 3	205 050 746 3	205 050 746 3	205 050 746 3	205 050 746 3	
• Chuck key							410213
• Flat wrench 8-9.5mm	268263		268263				
• Flat wrench 10mm		82623		82623			

OPTIONAL ACCESSORIES

ITEM	DR300-T5-90	DR300-T6-90	DR300-S5-90 DR300-S6-90	DR300-T5-30/360	DR300-S-45/360	D3141-S D3141-L	D3143-2 D3143-L
	6 Dust extraction kit	94972					
7 Side handle	205 049 446 3	205 049 446 3	205 049 446 3	205 049 446 3	205 049 446 3	323893	323893
8 Safety lever							



Collet capacity	DR300-T5-90 T5-30/360	DR300-T6-90 T6-45/360	D3141-S D3141-L	Collet capacity	DR300-T5-90 T5-30/360	DR300-T6-90 T6-45/360	D3141-S D3141-L
	A	B	C		A	B	C
• ø 0.8mm	2152			• ø 3.9mm	2462		
• ø 0.9mm	2162			• ø 4.0mm (5/32")	2472	19052	2672
• ø 1.0mm	2172			• ø 4.1mm	2482		
• ø 1.1mm	2182			• ø 4.2mm	2492	19062	2682
• ø 1.2mm	2192			• ø 4.3mm	2502		
• ø 1.3mm	2202			• ø 4.4mm	2512	19072	2692
• ø 1.4mm	2212			• ø 4.5mm	2522		
• ø 1.5mm	2222			• ø 4.6mm	2532	19082	2702
• ø 1.6mm	2232	18922		• ø 4.7mm	2542		
• ø 1.7mm	2242			• ø 4.8mm (3/16")	2552	19092	2712
• ø 1.8mm	2252	18932		• ø 4.9mm	2562		
• ø 1.9mm	2262	18932		• ø 5.0mm	2572	19102	2722
• ø 2.0mm	2272	18942		• ø 5.2mm		19122	2732
• ø 2.1mm	2282			• ø 5.4mm		19132	2742
• ø 2.2mm	2292	18952		• ø 5.6mm		19142	2752
• ø 2.3mm	2302	18952		• ø 5.8mm		19152	2762
• ø 2.4mm (3/32")	2312	18962	2592	• ø 6.0mm		19162	2772
• ø 2.5mm	2322			• ø 6.2mm		19172	2782
• ø 2.6mm	2332	18972	2602	• ø 6.4mm (1/4")		19182	2792
• ø 2.7mm	2342			• ø 6.6mm			2802
• ø 2.8mm	2352	18982	2612	• ø 6.8mm			2812
• ø 2.9mm	2362			• ø 7.0mm			2822
• ø 3.0mm	2372	18992	2622	• ø 7.2mm (9/32")			2832
• ø 3.1mm	2382			• ø 7.4mm			2842
• ø 3.2mm (1/8")	2392	19002	2632	• ø 7.6mm			2852
• ø 3.3mm	2402			• ø 7.8mm			2862
• ø 3.4mm	2412	19022	2642	• ø 8.0mm (5/16")			2872
• ø 3.5mm	2422			• ø 1/16"	91442		
• ø 3.6mm	2432	19032	2652	• ø 3/32"	91452		
• ø 3.7mm	2442			• ø 1/8"	91462		
• ø 3.8mm	2452	19042	2662	• ø 5/32"	91472		
A threaded 9/32"x 40				• ø 3/16"	91482		

Accessories for Tappers

D16-S-... / D16-L-... / D16-P-... / 2F16-L-...

ACCESSORIES INCLUDED

ITEM	PART NUMBER		
	D16-S-1000 D16-L-1000 D16-P-750	D16-S-500 D16-L-500 D16-P-450	2F16-L-700 2F16-L-250
1 Chuck (Jacobs No. 1 taper) - cap. 6.5mm (1/4") (with key)	29492		
1 Chuck (Jacobs No. 1 taper) - cap. 10mm (3/8") (with key)		29042	
• Chuck key	29182	29232	
2 Precision collet tap holder (No. 1 taper)			29462
3 Collet capacity M3.5 to M6 (9/64" to 1/4")			29482
4 Exhaust hose (except D16-P-..)	222453	222453	222453
• Clamp	235203	235203	235203

OPTIONAL ACCESSORIES

ITEM	PART NO.
5 Lock off lever	323893
6 Precision collet tap holder (with collet 29472) (1 JT)	29452
7 Collet capacity M4 to M8 (5/32" to 5/16")	29472
7 Collet capacity M3 to M7 (1/8" to 9/32")	29482
7 Collet capacity M6 to M12 (15/64" to 15/32")	97982
8 *Tap Holder (1 JT)	69922
9 Quick Release Chuck	16852
10 *Quick Release Tap Holder	69872

*Collets for Tap Holders:

TAP SIZE		BA	SHANK DIA		PART NO.
mm	in.		mm		
• M2.2 & M2.5		6 & 8	2.8		2612
• M3	1/8"	5	3.2		2632
• M3.5		4	3.6		2652
• M4			4.0		2672
• M4.5		3	4.5		2702
• M5	3/16"	2	5.0		2722
• M5.5	7/32"	1	5.6		2752
• M6	1/4"	0	6.3		2792
• M7	9/32"		7.1		2832
• M8 & M11	5/16" & 7/16"		8.0		2872
• M9 & M12	1/2"		9.0		69882
• M10	3/8"		10.0		69892
• *Wrench for Tap Holder collet nut					29443
• *2mm A/F hexagon key for Tap Holder grub screws					206773

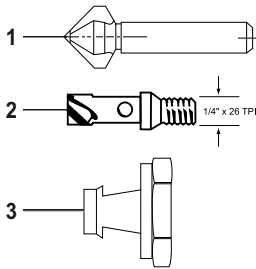


Accessories for Hole Deburring & Rivet Shaving

A27-A-... / C27-AX-... / D156-S-... / D156-P-...

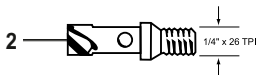
ACCESSORIES INCLUDED

ITEM	PART NO.			
	A27-A	C27-AX	D156-S	D156-P
• ø 3mm capacity collet - 9/32" x 40 Treaded	2372			
• ø 4mm (5/32") capacity collet - 9/32" x 40 Treaded	2472			
• ø 6.4mm (1/4") capacity collet		615 526 059 0		
1 Cutter (90° point) – 5mm dia	91752			
1 Cutter (90° point) – 10mm dia		91572		
2 Cutter – carbide tipped (11.1mm 7/16" dia)			70602	70602
3 Cutter Guard			18822	18822
• Air Hose (M5 x 1/8" BSP) – 4mm bore	79322			
• Adaptor (1/8" BSP female to 1/8" NPT male)	271463			
• Suspension Bail	280903	39433		
• Exhaust hose	280913	222453	222453	
• Exhaust Hose Clip		235203	235203	
• Collet Nut Wrench	82623	18583		
• Collet Spindle Wrench	268263	159003	15533	15533
• Cutter Guard Wrench			38873	38873
• Bit stop		322053		

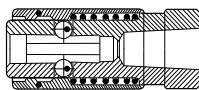


OPTIONAL ACCESSORIES

ITEM	PART NO.	
	D156-S	D156-P
• Suspension Bail	39433	
• Offset exhaust silencer	77722	
2 Cutter – carbide tipped (ø6.4mm ø1/4")	70572	70572
2 Cutter – carbide tipped (ø7.9mm ø5/16")	70582	70582
2 Cutter – carbide tipped (ø9.5mm ø3/8")	70592	70592
2 Cutter – carbide tipped (ø12.7mm ø1/2")	70622	70622
3 Cutter Guard (ø6.4mm ø 1/4")	18782	18782
3 Cutter Guard (ø7.9mm ø 5/16")	18792	18792
3 Cutter Guard (ø9.5mm ø 3/8")	18802	18802
3 Cutter Guard (ø12.7mm ø 1/2")	18832	18832
3 Cutter Guard (ø14.3mm ø 9/16")	18842	18842



Drilling Accessories



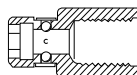
SCREWDRIVER BIT ADAPTOR

TAPER	INSIDE HEX	NOTES	PART NO.
Jacobs No 1	5/16 Hex	Quick release	27742
Jacobs No 1	1/4" Hex	Quick release	31102



TAPER ADAPTOR

TAPER	TAPER	NOTES	PART NO.
Jacobs No 1	Jacobs No 2		12243



SCREWDRIVER BIT ADAPTOR

INSIDE THREAD	TAPER/INSIDE HEX	NOTES	PART NO.
3/8" x 24	1/4" Hex E6.3	Positive retention	615 804 419 0

CFD - Portable Feed Drill & PECK-CFD - Portable Peck Feed Drill

- These tools are designed to be fixture mounted and to produce high quality holes during the drilling process. Consequently, they provide optimum operator comfort and do not depend on the operator to exert the forces required for manual drilling.

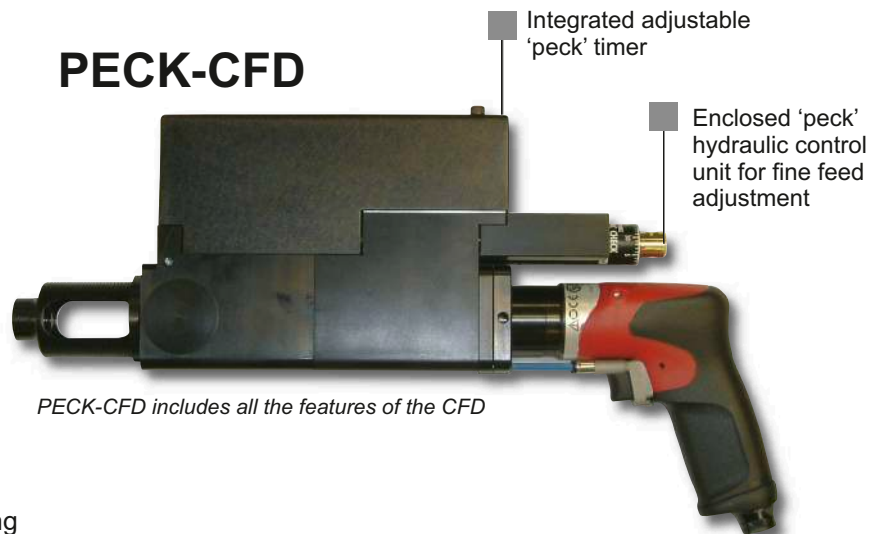
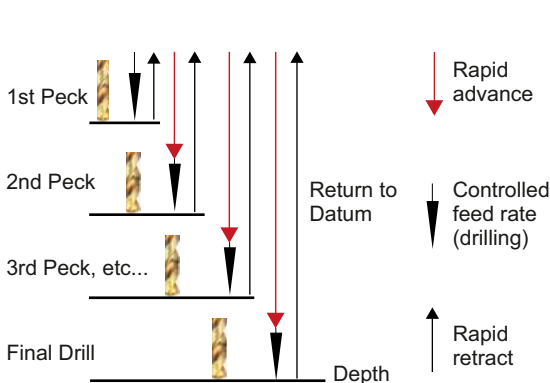
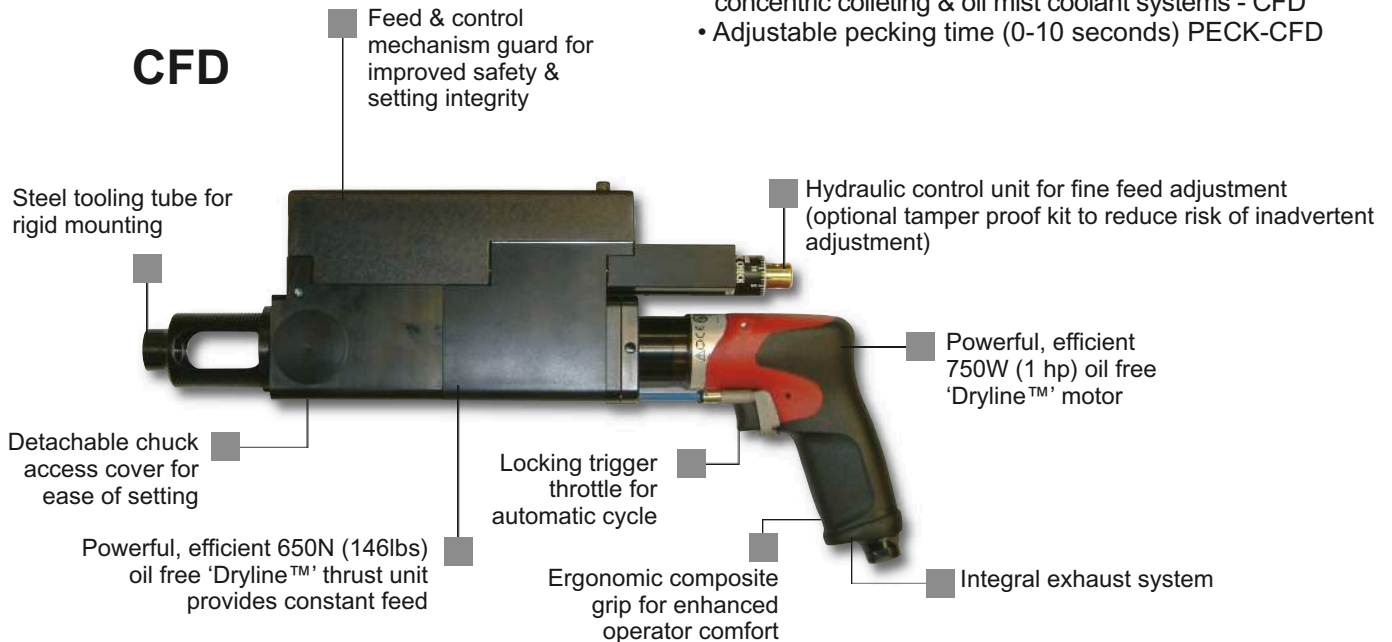
Ergonomics & Operator Comfort

- High Power to Weight ratio
- Lightweight for ease of handling to fixture mount

- PECK-CFD - Utilising our existing Constant Feed Drill design with the added advantage of 'peck' drilling.

Features

- Powered by a full 750W (1 hp) oil free motor
- Feed unit provides in excess of 650N (146lbs) thrust
- Working stroke 50mm (2")
- Chuck capacity Ø10mm max. (3/8")
- Adjustable dwell control (0-4 seconds) - ideal for countersinking & spotfacing application
- Depth repeatability $\leq 0.0127\text{mm}$ ($\leq 0.0005\text{"}\text{'}$)
- Integrated feed ports to activate external accessories e.g. concentric colletting & oil mist coolant systems - CFD
- Adjustable pecking time (0-10 seconds) PECK-CFD



Reliability and Servicing

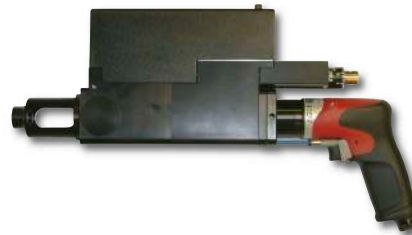
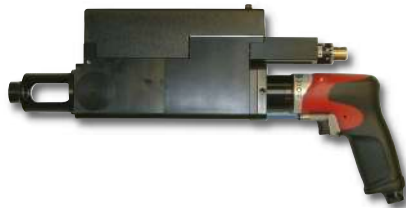
- Modular construction provides ease of servicing
- Minor and major service kits available to ensure a 'right first time' service

Portable Feed Drill

Drilling Speed Selection Guide

FREE SPEED	TITANIUM		STAINLESS STEEL		SOFT CAST IRON MILD STEEL		ALUMINUM BRASS COPPER		COMPOSITE	
rpm			9-15 m/min	30-50 ft/min	20-25 m/min	65-115 ft/min	50-80 m/min	165-265 ft/min	50-100 m/min	165-330 ft/min
Drill Ø										
20000	-	-	-	-	-	-	2mm	5/64"	4mm	5/32"
6000	-	-	-	-	-	-	4mm	5/32"	5mm	3/16"
4100	-	-	-	-	-	-	6mm	1/4"	8mm	5/16"
3300	-	-	-	-	3mm	1/8"	8mm	5/16"	10mm	3/8"
2700	-	-	-	-	4mm	5/32"	10mm	3/8"	-	-
1300	2mm	5/64"	4mm	5/32"	9mm	11/32"	-	-	-	-
750	3mm	1/8"	7mm	9/32"	10mm	3/8"	-	-	-	-
400	3mm	1/8"	7mm	9/32"	10mm	3/8"	-	-	-	-

CFD - PECK-CFD



Max. working stroke 50mm (2")

MODEL		FREE SPEED	STD. CHUCK SIZE		MOTOR POWER		DYNAMIC THRUST		WEIGHT		AIR FLOW		AIR INLET	HOSE INT. Ø	
		rpm	mm	in.	kW	Hp	N	lbf	kg	lb	l/s	cfm	BSP/NPT	mm	in.
CFD-DR750-P20000	PECK-CFD-DR750-P20000	20000	8	5/16	0.75	1.00	650	146	4.5	9.90	14	30	1/4	10	3/8
CFD-DR750-P6000	PECK-CFD-DR750-P6000	6000	8	5/16	0.75	1.00	650	146	4.5	9.90	14	30	1/4	10	3/8
CFD-DR750-P4100	PECK-CFD-DR750-P4100	4100	8	5/16	0.75	1.00	650	146	4.5	9.90	14	30	1/4	10	3/8
CFD-DR750-P3300	PECK-CFD-DR750-P3300	3300	10	3/8	0.75	1.00	650	146	4.5	9.90	14	30	1/4	10	3/8
CFD-DR750-P2700	PECK-CFD-DR750-P2700	2700	10	3/8	0.75	1.00	650	146	4.5	9.90	14	30	1/4	10	3/8
CFD-DR750-P1300	PECK-CFD-DR750-P1300	1300	10	3/8	0.75	1.00	650	146	5.0	11.00	14	30	1/4	10	3/8
CFD-DR750-P750	PECK-CFD-DR750-P750	750	10	3/8	0.75	1.00	650	146	5.0	11.00	14	30	1/4	10	3/8
CFD-DR750-P400	PECK-CFD-DR750-P400	400	10	3/8	0.75	1.00	650	146	5.0	11.00	14	30	1/4	10	3/8

How to order...

Constant Feed Drill



Hydraulic Control Unit

PART NUMBER	MODEL	FREE SPEED	STD. CHUCK SIZE	
		rpm	mm	in.
205 147 221 4	CFD-DR750-P20000	20000	8	5/16
205 147 220 4	CFD-DR750-P6000	6000	8	5/16
205 147 219 4	CFD-DR750-P4100	4100	8	5/16
205 147 218 4	CFD-DR750-P3300	3300	10	3/8
205 147 217 4	CFD-DR750-P2700	2700	10	3/8
205 147 216 4	CFD-DR750-P1300	1300	10	3/8
205 147 215 4	CFD-DR750-P750	750	10	3/8
205 147 214 4	CFD-DR750-P400	400	10	3/8

Pt No. 91942 – 25mm (1") stroke
Pt No. 91952 – 50mm (2") stroke



For alternative chuck or collet spindle, please select from accessories section.

How to order...

Peck Feed Drill



Hydraulic Control Unit

PART NUMBER	MODEL	FREE SPEED	STD. CHUCK SIZE	
		rpm	mm	in.
205 147 367 4	PECK-CFD-DR750-P20000	20000	8	5/16
205 147 366 4	PECK-CFD-DR750-P6000	6000	8	5/16
205 147 365 4	PECK-CFD-DR750-P4100	4100	8	5/16
205 147 364 4	PECK-CFD-DR750-P3300	3300	10	3/8
205 147 363 4	PECK-CFD-DR750-P2700	2700	10	3/8
205 147 362 4	PECK-CFD-DR750-P1300	1300	10	3/8
205 147 361 4	PECK-CFD-DR750-P750	750	10	3/8
205 147 360 4	PECK-CFD-DR750-P400	400	10	3/8

Pt No. 91972 – 25mm (1") stroke
Pt No. 91982 – 50mm (2") stroke



For alternative chuck or collet spindle, please select from accessories section.

Concentric Colleting System

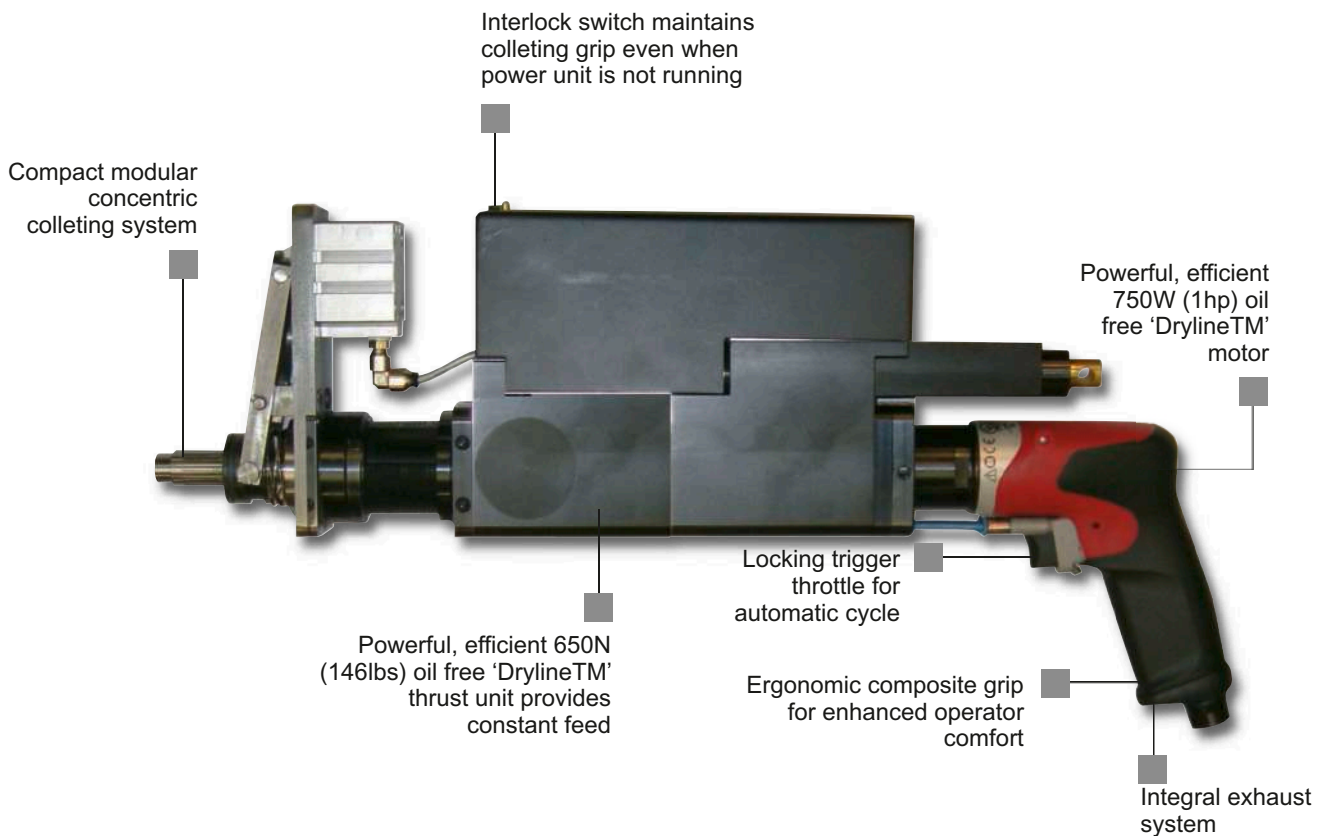
- Utilising our existing Constant Feed Drill & Peck Feed Drill designs we are now able to offer both units with the added benefit of Concentric Collet jig mounting

Ergonomics & Operator Comfort

- High Power to Weight ratio
- Simple to use system for ease of handling

Features

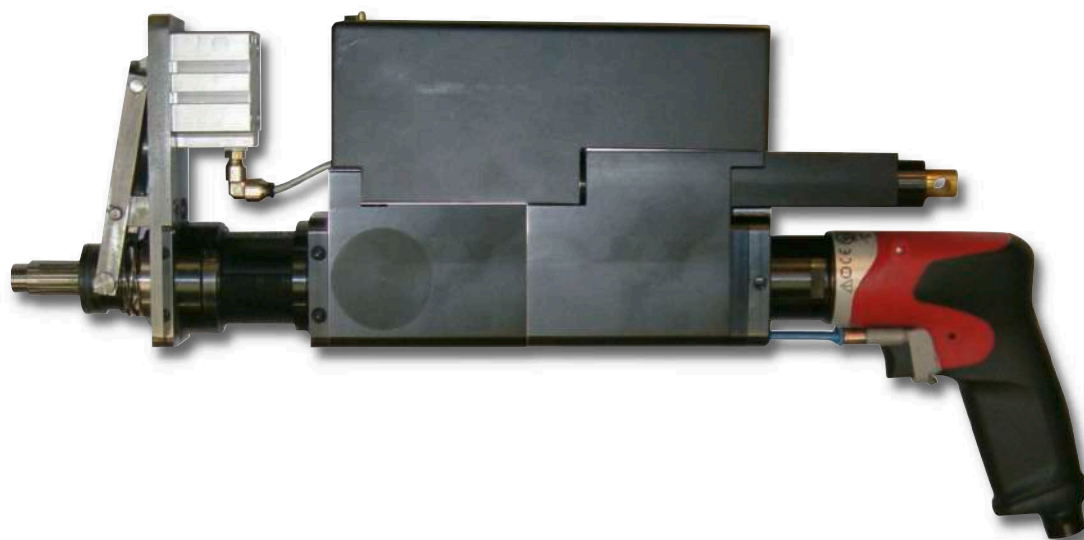
- All the great features of the Constant Feed Drill and Peck Feed Drill
- Virtually all popular sizes of colleting system can be accommodated
- Tailor made design & manufacture service available



Reliability & Servicing

- Modular construction provides ease of servicing
- Minor & major service kits available to ensure a 'right first time' service

Concentric Colleting System



How to order...

Constant Feed Drill

fitted with

Concentric collet
(refer to next page for specifications)



Hydraulic Control Unit

Pt No. 91942 – 25mm (1") stroke
Pt No. 91952 – 50mm (2") stroke

MODEL	FREE SPEED	STD. CHUCK SIZE	
	rpm	mm	in
CFD-DR750-P20000	20000	8	5/16
CFD-DR750-P6000	6000	8	5/16
CFD-DR750-P4100	4100	8	5/16
CFD-DR750-P3300	3300	10	3/8
CFD-DR750-P2700	2700	10	3/8
CFD-DR750-P1300	1300	10	3/8
CFD-DR750-P750	750	10	3/8
CFD-DR750-P400	400	10	3/8



How to order...

Peck Feed Drill

fitted with

Concentric collet
(refer to next page for specifications)



Hydraulic Control Unit

Pt No. 91972 – 25mm (1") stroke
Pt No. 91982 – 50mm (2") stroke

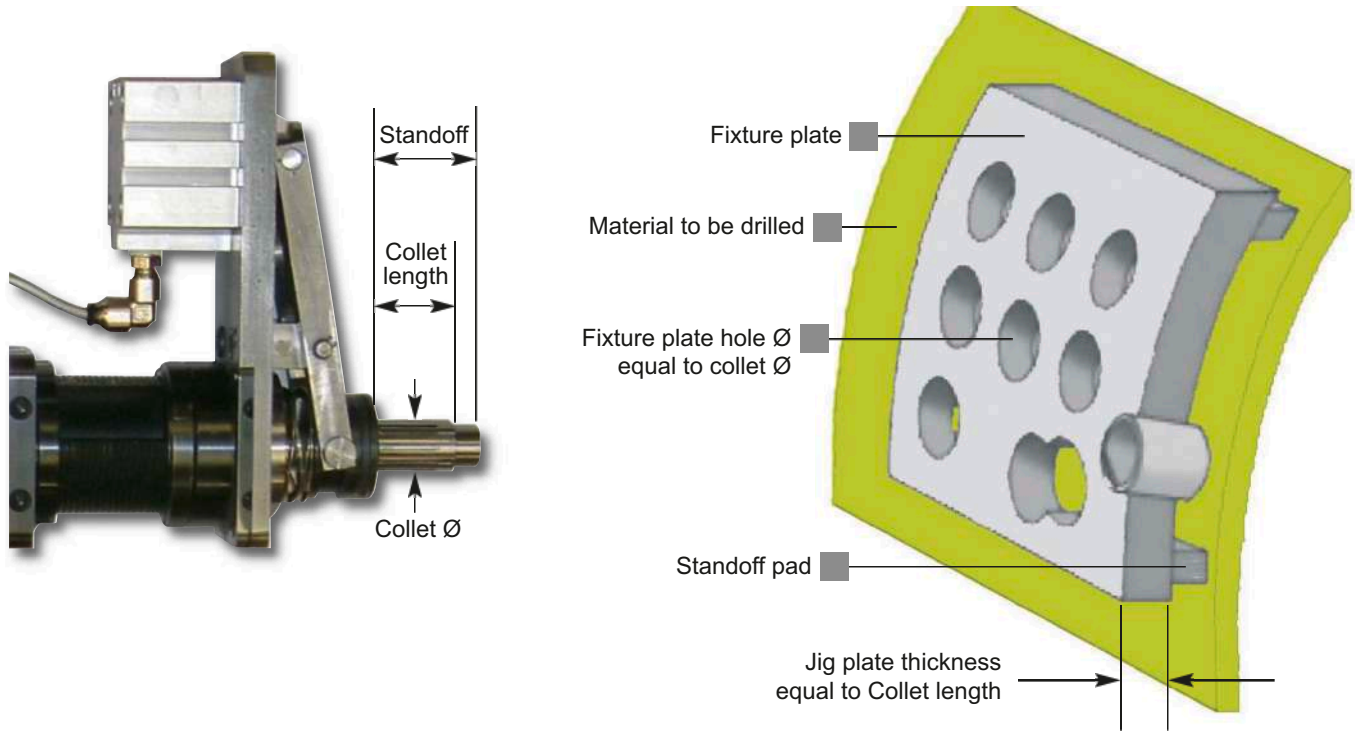
MODEL	FREE SPEED	STD. CHUCK SIZE	
	rpm	mm	in
PECK-CFD-DR750-P20000	20000	8	5/16
PECK-CFD-DR750-P6000	6000	8	5/16
PECK-CFD-DR750-P4400	4100	8	5/16
PECK-CFD-DR750-P3300	3300	10	3/8
PECK-CFD-DR750-P2700	2700	10	3/8
PECK-CFD-DR750-P1300	1300	10	3/8
PECK-CFD-DR750-P750	750	10	3/8
PECK-CFD-DR750-P400	400	10	3/8



Concentric Colleting System

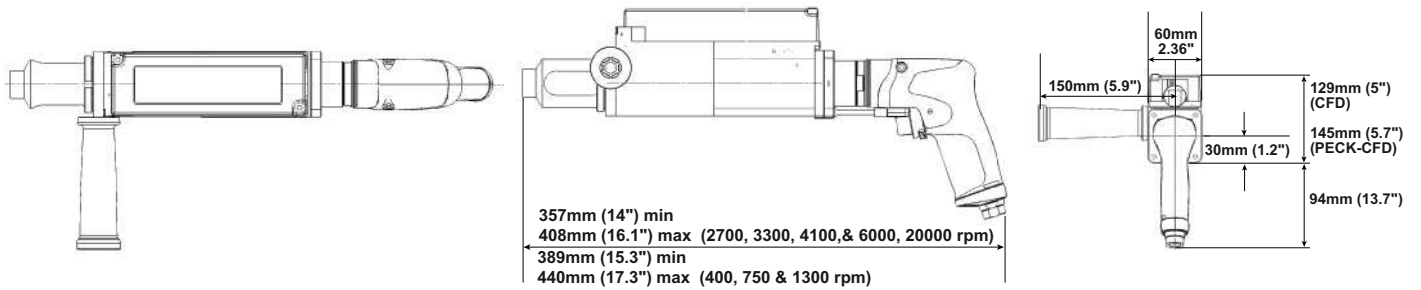
The Concentric Collet automatically clamps to the fixture plate when the drill cycle is initiated. Once the drilling cycle is complete the concentric collet grip is retained until the interlock switch is depressed. The feed drill can then be removed from the fixture plate and moved to the next drilling operation.

Typical Concentric Collet Tooling:



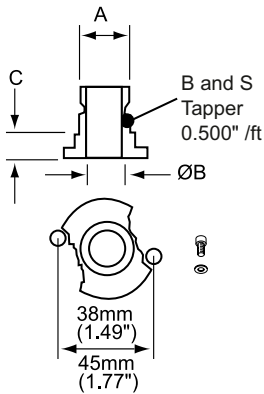
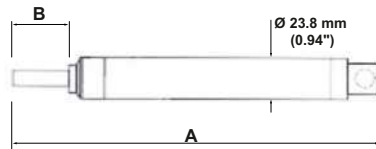
Data required to specify concentric collet :

- Collet diameter (max. Ø31.75mm / Ø1.25") _____
- Collet Length _____
- Standoff (jig plate thickness + standoff pad thickness) _____
- Hole diameter (max 10mm / 3/8") _____
- Max cutter body size _____
- Cutter length _____
- Thickness of material to be drilled (max <50mm / <2") _____
- Cutter type Drill _____
- Combination Drill / Reamer _____
- Combination Drill / Countersink _____
- Other (please specify) _____



Hydraulic Control Unit

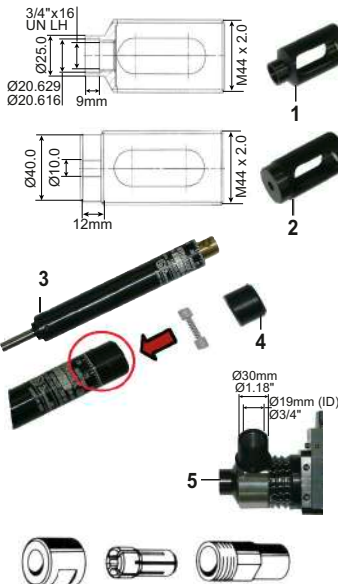
MAX. STROKE	A		B		PART NO.	USED ON	
	mm	in.	mm	in.			
25	1	199	7.83	30.1	1.19	91942	CFD
50	2	276	10.9	55.5	2.19	91952	CFD
25	1	215	8.46	56.3	2.22	91972	PECK-CFD
50	2	292	11.50	81.7	3.22	91982	PECK-CFD



Bayonet plates

	A	Ø B	C	PART NO.
• Locating centres - 38mm (1.49")	3/4" x 16 TPI (LH)	14.2mm (0.56")	9.5mm (3/8")	251053
• Locating centres - 45mm (1.77")	1" x 14 TPI (LH)	19.05mm (3/4")	9.5mm (3/8")	251063
• Locating centres - 45mm (1.77")	1 1/8" x 20 TPI (LH)	19.05mm (3/4")	9.5mm (3/8")	31113

CFD and PECK-CFD



ACCESSORIES INCLUDED

ITEM	20000, 6000 & 4100 rpm	3300, 2700, 1300 & 750 & 400 rpm
• Chuck (without key) capacity 8mm - 5/16"	410203	
• Chuck Key	410213	
• Chuck with key capacity 10mm (3/8")		31132
• Chuck Key		29232
1 Tooling Tube 3/4" - 16 UN LH thread	469883	469883

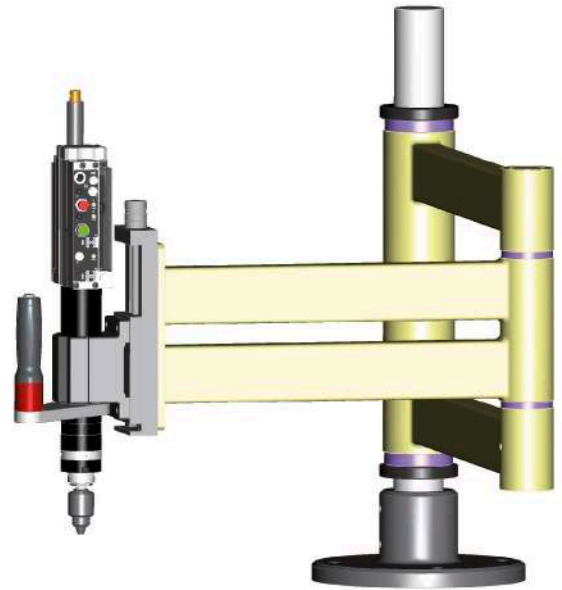
OPTIONAL ACCESSORIES

ITEM	PART NO
2 Tooling Tube blank (for local customisation)	471873
3 Hydraulic Control Unit - 25mm (1") stroke (for use with CFD only)	91942
3 Hydraulic Control Unit - 50mm (2") stroke (for use with CFD only)	91952
3 Hydraulic Control Unit - 25mm (1") stroke (for use with PECK-CFD only)	91972
3 Hydraulic Control Unit - 50mm (2") stroke (for use with PECK-CFD only)	91982
4 Hydraulic Control Unit Tamper proof HCU cap	110632
5 Dust Extraction kit	205 047 954 3
6 Collet spindle	615 523 023 0
7 Collet nut	615 607 144 0
• Collet capacity ø 2.4mm to 3.2mm (1/8")	615 526 061 0
• Collet capacity ø 5.2mm to 6mm (7/32")	615 526 062 0
• Collet capacity ø 5.55mm to 6.35mm (1/4")	615 526 063 0
• Collet capacity ø 7.2mm to 8mm (5/16")	615 526 064 0
• Collet capacity ø 8.7mm to 9.5mm (3/8")	615 526 065 0

Auto Feed Drills and Tappers

Ease of Incorporation into Machine or Process

- Extensive range of mounting clamps
- Control interfaces to link AFD(E) to other equipment (either pneumatic or electric)
- Single signal required for AFD(E) to perform cycle
- Output signals at datum and depth
- Electric motor mounting on 200, 400 and 600 series can be rotated to 180°



Comprehensive range of Product

- For single spindle operations to multi spindle processes
- Pneumatic and electric drive from 0.22kW to 1.1kW (0.3hp to 1.5hp) with thrusts from 320N to 1557N (72 to 350lbf)
- Reliability through quality

Modular Design

- Flexibility of unit function and speed
- Common components in different models reducing inventory
- Multiple spindle head options
- Drill and tapping options for all models



For further information see the AFD catalogue

Electric drive / Pneumatic feed



MODEL	MOTOR POWER		DYNAMIC THRUST		FREE SPEED	WORKING STROKE		FUNCTION
	kW	hp	N	lbf	rpm	mm	in.	
AFDE200	0.25	0.34	320	72	850-11950	90	3.54	Drill/Tapper



MODEL	MOTOR POWER		DYNAMIC THRUST		FREE SPEED	WORKING STROKE		FUNCTION
	kW	hp	N	lbf	rpm	mm	in.	
AFDE400	0.37	0.50	724	163	330-1740	100	3.94	Drill/Tapper
AFDE410	0.33	0.44	724	163	1740-11950	100	3.94	
AFDE410	0.75	1.00	724	163	330-9600	100	3.94	Drill/Tapper



MODEL	MOTOR POWER		DYNAMIC THRUST		FREE SPEED	WORKING STROKE		FUNCTION
	kW	hp	N	lbf	rpm	mm	in.	
AFDE610	0.75	1.00	1557	350	330-6300	100	3.94	Drill/Tapper
AFDE620	1.10	1.47	1557	350	330-5250	100	3.94	Drill/Tapper

Electric drive / Leadscrew feed



MODEL	MOTOR POWER		TAPPING TORQUE		FREE SPEED	WORKING STROKE		FUNCTION
	kW	hp	Nm	lbf ins	rpm	mm	in.	
AFTE480	0.75	1.00	4.4-35.8	39-317	180-1740	60	2.36	Tapper

Pneumatic drive / feed



MODEL	MOTOR POWER		DYNAMIC THRUST		FREE SPEED	WORKING STROKE		FUNCTION
	kW	hp	N	lbf	rpm	mm	in.	
AFD205	0.22	0.30	400	90	650-18700	50	1.97	Drill/Tapper



MODEL	MOTOR POWER		DYNAMIC THRUST		FREE SPEED	WORKING STROKE		FUNCTION
	kW	hp	N	lbf	rpm	mm	in.	
AFD215	0.22	0.30	400	90	650-18700	90	3.54	Drill/Tapper



MODEL	MOTOR POWER		DYNAMIC THRUST		FREE SPEED	WORKING STROKE		FUNCTION
	kW	hp	N	lbf	rpm	mm	in.	
AFD415	0.38	0.51	706	159	490-18000	100	3.94	Drill/Tapper



MODEL	MOTOR POWER		DYNAMIC THRUST		FREE SPEED	WORKING STROKE		FUNCTION
	kW	hp	N	lbf	rpm	mm	in.	
AFD625	0.66	0.85	1557	350	40-3300	100	3.94	Drill/Tapper