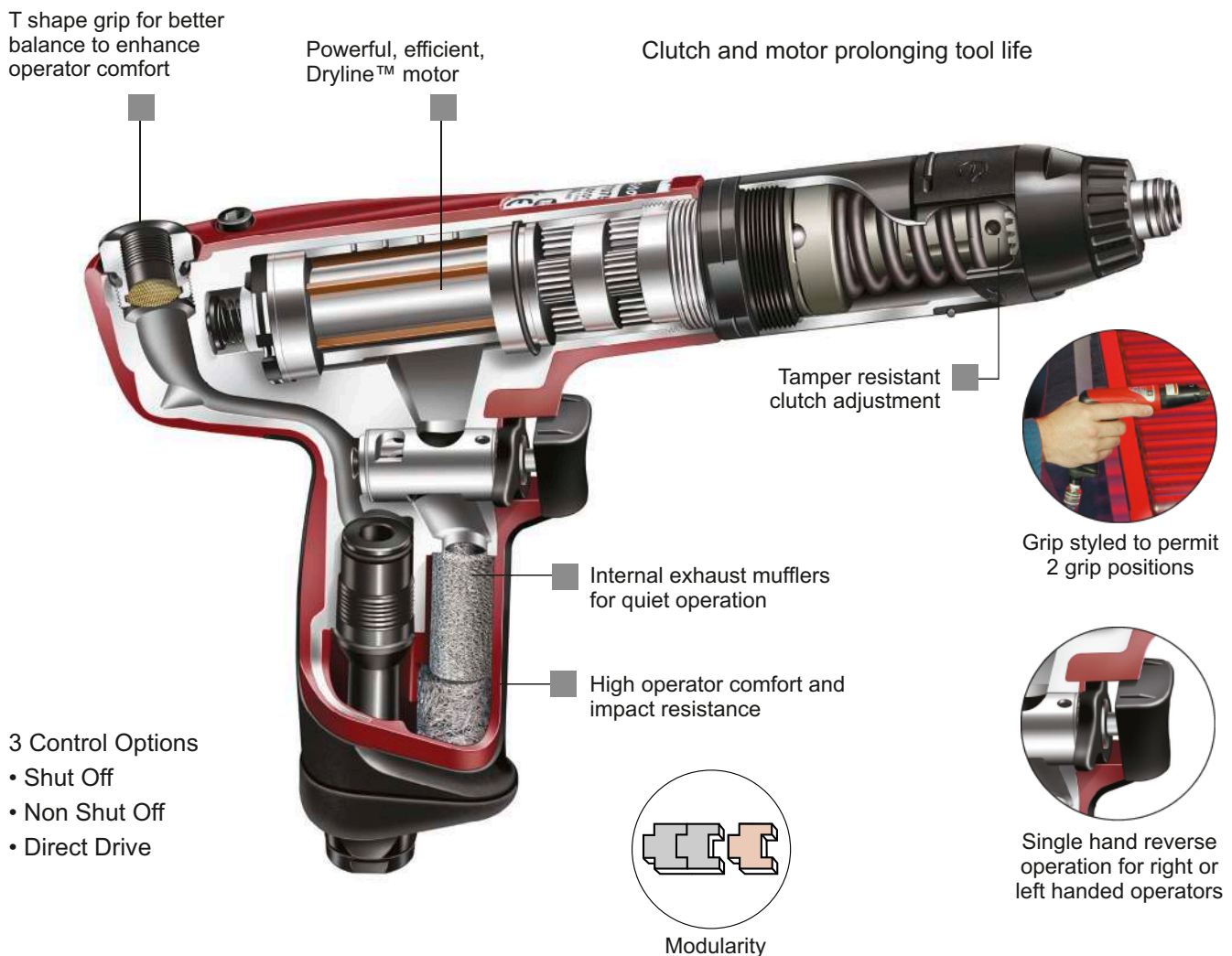
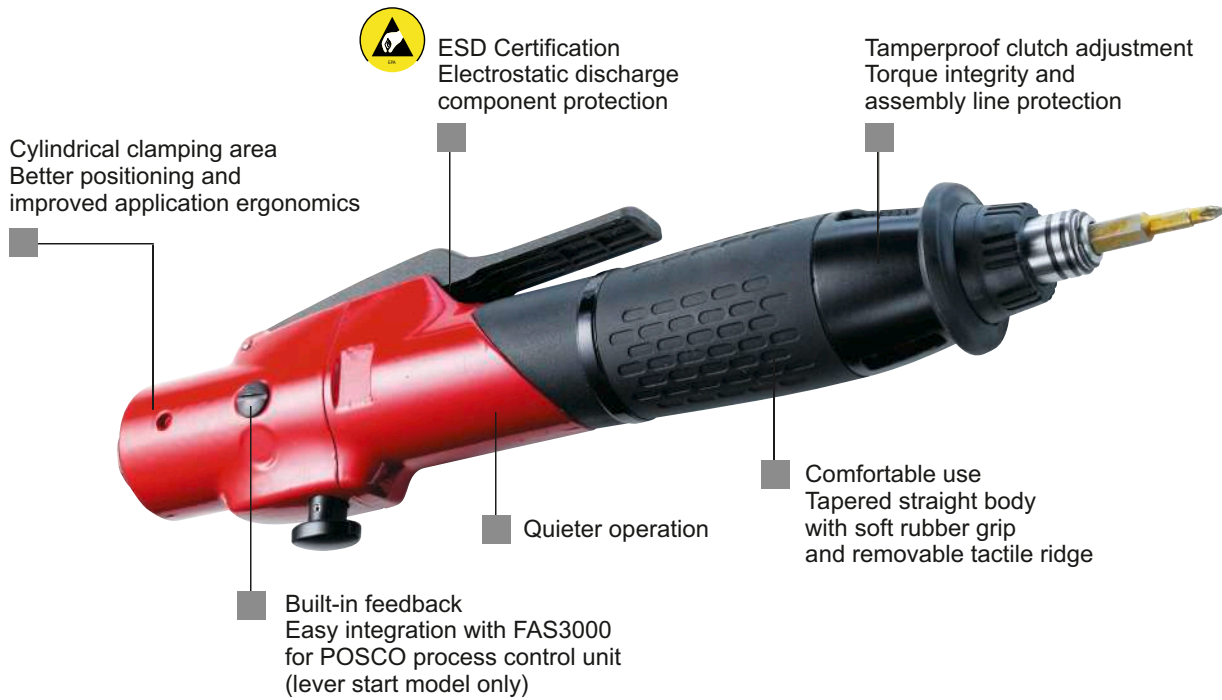




Pneumatic fastening tools

Shut Off, Non Shut Off, Direct Drive, Automatic Reverse

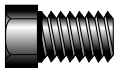
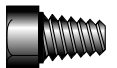







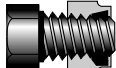
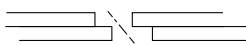


Tool Selection

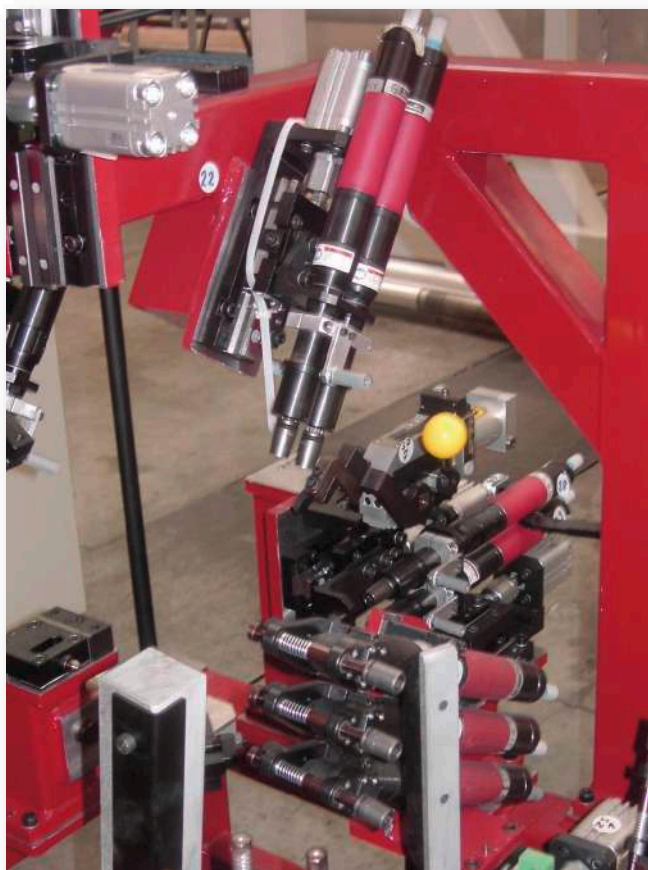
Criteria

- Type of Fastener/Component
- Joint integrity
- Torque Required
- Tool Orientation and Operator Reference
- Productivity
- Access

Type of Fastener/Component

FASTENER/COMPONENT	RECOMMENDED TOOL TYPE
Machine Screw / Nut 	Shut Off / Impulse / Non Shut Off
Thread Rolling / Forming 	Shut Off / HLT / Impulse / Direct Drive
Self Tapping 	Non Shut Off / HLT / Direct Drive
Self Tapping in Plastic / Thin Materials 	Shut Off / HLT
Self Drilling 	Non Shut Off / HLT / Direct Drive
Wood Screws 	Non Shut Off / Direct Drive

FASTENER/COMPONENT	RECOMMENDED TOOL TYPE
Screws with Adhesive 	HLT / Non Shut Off / Impulse
Self Lock Nuts 	HLT / Non Shut Off / Impulse
Misaligned Holes 	HLT
Variable Size Holes 	HLT
Fragile Components 	HLT / Low Voltage Screwdrivers



Tool Selection

Fastener Torque Values

ISO	MACHINE SCREWS					THREAD FORMING/ ROLLING SCREWS
	4.6	5.8	8.8	10.9	12.9	8.8
THREAD SIZE	RECOMMENDED TORQUE (Nm)					RECOMMENDED TORQUE (Nm)
M1.6	0.07	0.12	0.19	–	–	–
M2	0.15	0.24	0.38	–	–	0.5
M2.2	0.19	0.31	0.51	–	–	–
M2.5	0.28	0.48	0.77	–	–	–
M3	0.51	0.85	1.4	1.9	2.3	1.4
M3.5	0.8	1.34	2.2	3.0	3.6	–
M4	1.2	2.0	3.2	4.5	5.4	3.2
M5	2.4	4.0	6.4	9.0	10.7	6.5
M6	4.1	6.8	10.9	15.3	18.3	11
M8	9.8	16.3	26.1	36.8	44.1	26
M10	19.3	32.2	51.5	72	86.9	52
M12	33.6	56	90	126	151	91
M14	53	89	142	200	239	–
M16	82	136	218	307	368	–
M18	114	190	304	428	513	–
M20	160	266	426	598	718	–
M22	215	358	573	806	967	–

SELF TAPPING/DRILLING SCREWS	
THREAD SIZE	RECOMMENDED TORQUE (Nm)
ST2.2 (B2)	0.2
ST2.9 (B4)	1.0
ST3.5 (B6)	1.8
ST4.2 (B8)	2.9
ST4.8 (B10)	4.2
ST5.5 (B12)	6.7
ST6.3 (B14)	9.1

Conversion Factors

Nm x 141.6 = oz in
 Nm x 8.851 = in lb
 Nm x 0.73756 = ft lb
 Nm x 0.102 = kgf m/kpm
 Nm x 10.2 = kgf cm

Torque figures should be used as a guide only
Table assumes fasteners are new, lightly lubricated and of a standard finish
For lock nuts with a nylon insert, +10%

For non metric threads please use the following data as a guide.

Recommended Maximum Torque Values – UNC Threads

THREAD SIZE	QUALITY P		QUALITY S		QUALITY T	
	Nm	ft.lb	Nm	ft.lb	Nm	ft.lb
1/4	5.43	4.00	10.3	7.60	11.1	8.19
5/16	11.2	8.26	21.3	15.71	23.0	16.96
3/8	19.9	14.68	37.9	27.95	40.9	30.17
7/16	31.9	23.53	60.7	44.77	65.5	48.31
1/2	48.8	36.00	92.7	68.37	100	73.76
9/16	70.4	51.92	134	98.83	144	106
5/8	97.4	71.84	185	136.45	200	147.5
3/4	178	131.3	338	249.3	364	268.5
7/8	279	205.8	530	391	572	422
1	418	308.3	795	586	858	633
1 1/8	593	437.4	1126	830	1216	897
1 1/4	837	617.3	1591	1173	1717	1266
1 3/8	1096	808.4	2083	1536	2248	1658
1 1/2	1456	1074	2767	2041	2987	2203

Recommended Maximum Torque Values – UNF Threads

THREAD SIZE	QUALITY P		QUALITY S		QUALITY T	
	Nm	ft.lb	Nm	ft.lb	Nm	ft.lb
1/4	6.28	4.63	11.9	8.78	12.9	9.51
5/16	12.5	9.22	23.8	17.55	25.7	18.96
3/8	22.7	16.74	43.2	31.9	46.6	34.4
7/16	35.9	26.5	68.2	50.3	73.6	54.3
1/2	55.4	40.9	105	77.4	114	84.0
9/16	79.0	58.3	150	111	162	119
5/8	111	81.9	210	155	227	167
3/4	195	144	370	273	399	294
7/8	309	228	587	433	634	468
1	459	339	873	644	942	695
1 1/8	667	492	1267	934	1368	1009
1 1/4	925	682	1757	1296	1896	1398
1 3/8	1252	923	2378	1754	2567	1893
1 1/2	1642	1211	3119	2300	3367	2482

Quality P = approximately ISO 4.6

Quality S/T = approximately ISO 8.8

Quality S = ANSI Grade 5



Productivity and Ergonomics

Access



90° Angle Heads



45° Angle Heads



Crowfoot
Open Ended Wrenches

Ergonomic Benefits

- Lightweight
- Short Length
- Light Start Load

Pistol options of 'P' or 'T' style to suit the application and operator preference

'Warm feel' friction grip



Single hand reverse operation for right and left handed operators without any modification

Contoured grip

Correct grip orientation

Tapered nose for improved visibility

Tamper resistant clutch adjustment

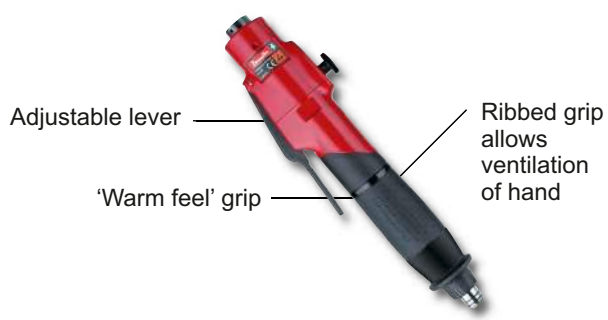


Contoured grip

Friction grip

Thrust bump

Tamper resistant clutch adjustment



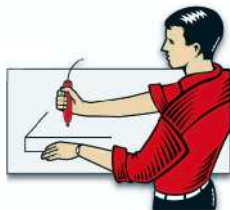
Adjustable lever

'Warm feel' grip

Ribbed grip allows ventilation of hand

For low vibration exposure and high productivity, select shut off tools where possible

Tool orientation and Operator preference



P Shape

Self Tapping/Forming/Cutting Screws
Multi orientation
Top air inlet
Requires balanced tool

Use P Shape - arm in line with body of tool for thrust
Use P Shape - allows wrist to rotate into position
Can only use T Shape
Use T Shape - especially with screwfeeder

Button Reverse versus Rotary Reverse

Rapid Reverse Required
Thread Chasing Cleaning
Rivnuts/Threaded Fasteners
Long Periods in Reverse

Use button reverse
Use button reverse (auto reverse for blind holes)
Use auto reverse tools
Use rotary reverse

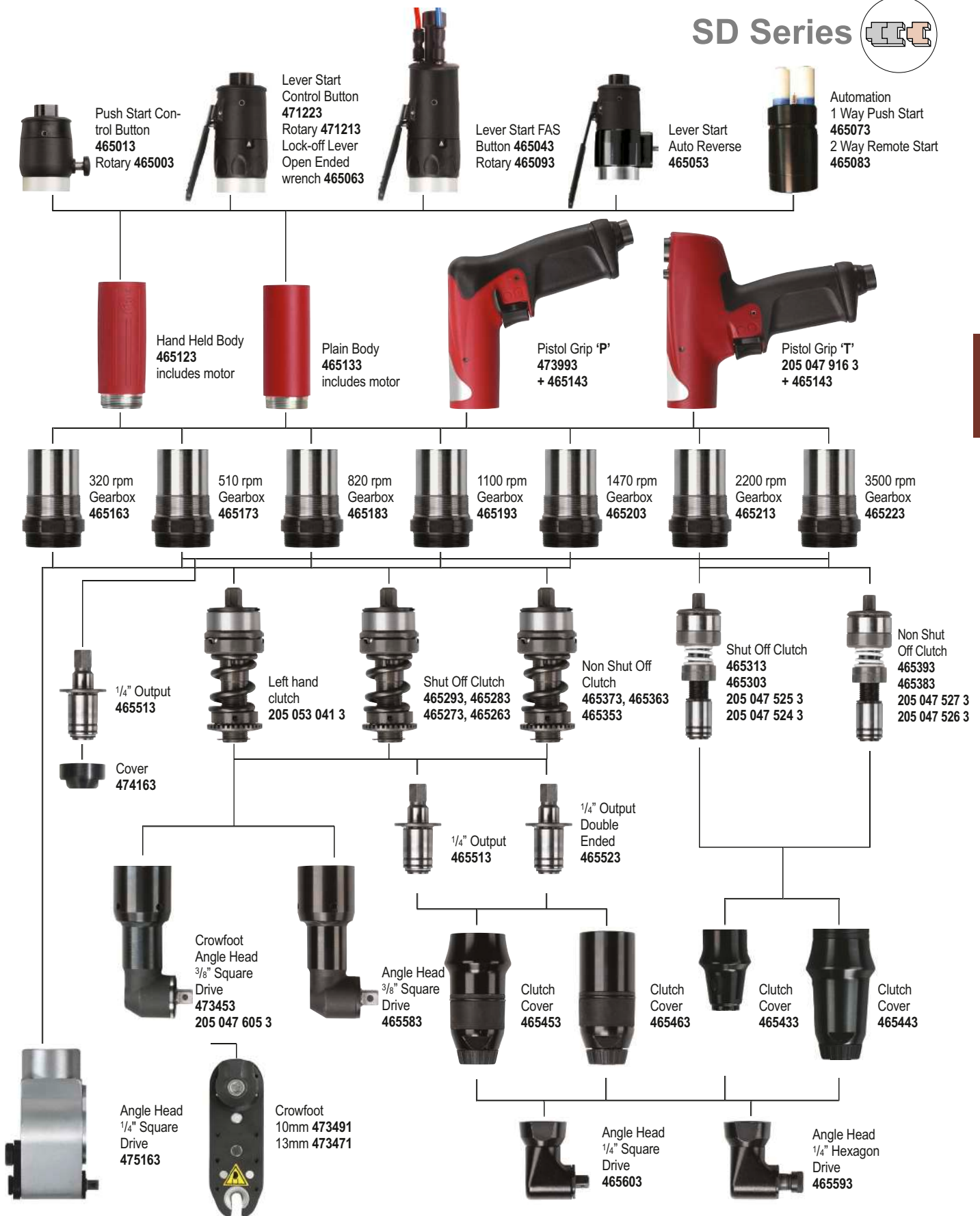
Push Start versus Lever Start

Fast Cycle Rate
Single Hand Operation Required
Need to Align/Position Components First

Use push start
Use push start
Use lever start or push + trigger start (SBP/SDP only)

Modularity

SD Series

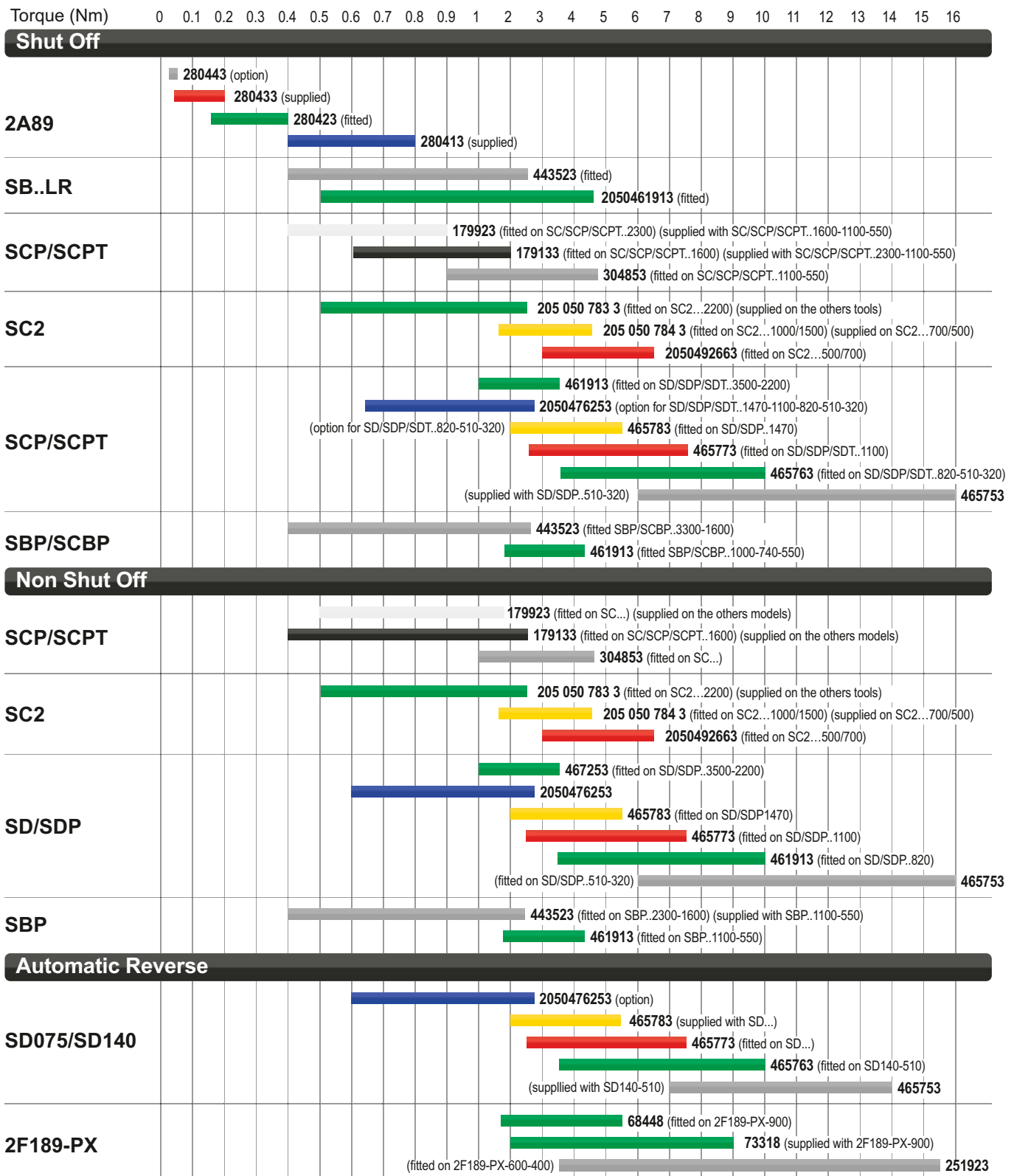


Modularity, a concept for all Desoutter pneumatic screwdrivers range

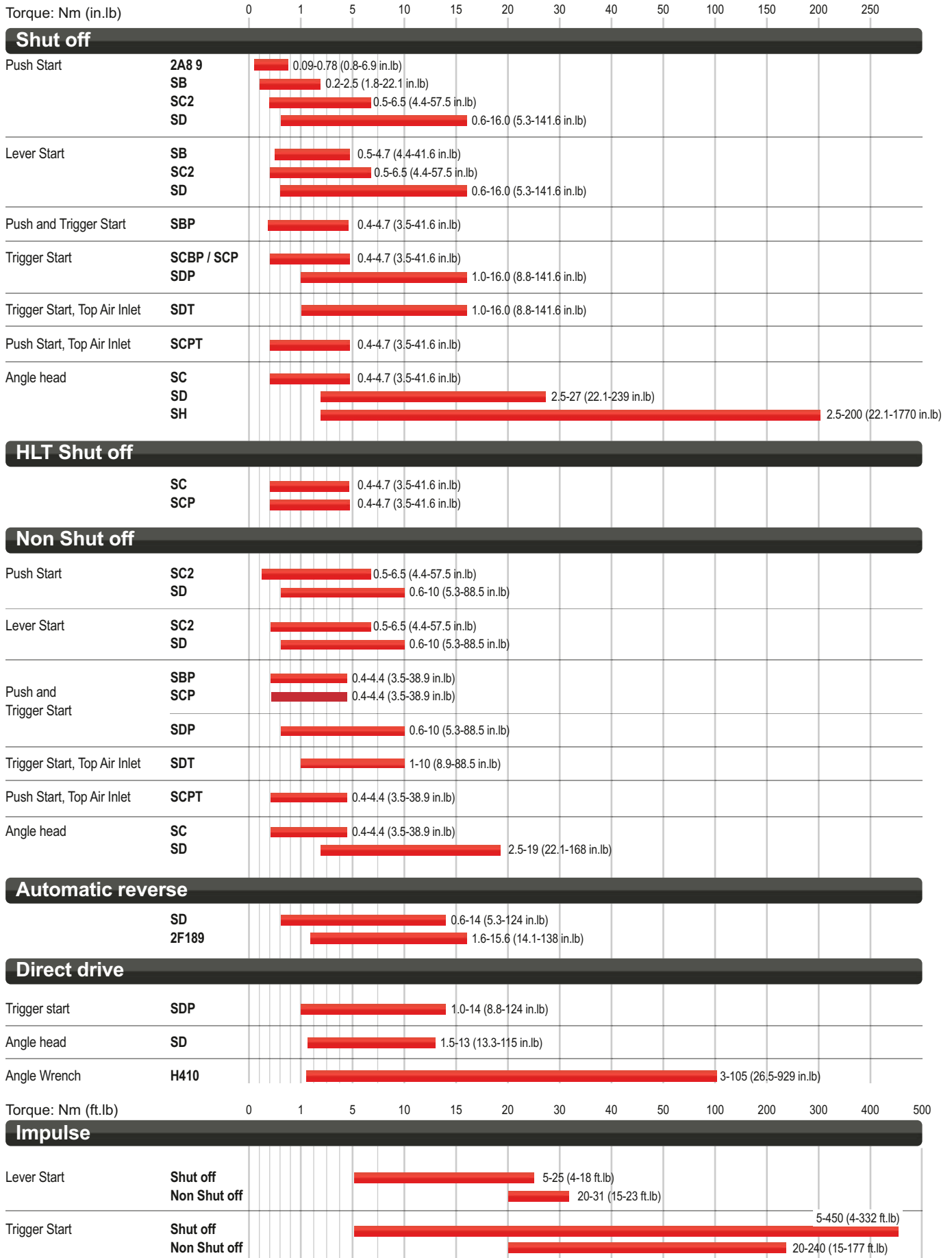
Screwdriver Torque Ranges

Torque output of the range of shut off and non shut off screwdrivers is controlled by the type of spring in the clutch assembly. The overall torque range, together with that of the factory fitted spring on a soft joint to ISO5393 are listed in the tables on the following pages. The chart below provides an indication of the torque ranges for the optional colour coded clutch springs together with their respective part numbers (some are included with certain tools). As a general rule, the tool should be fitted with a spring which ensures the torque required falls within 20 to 80% of the operating range.

Please note that the torque range of specific speed tools may alter slightly from that shown below and for this reason the chart should be used as a guide only.

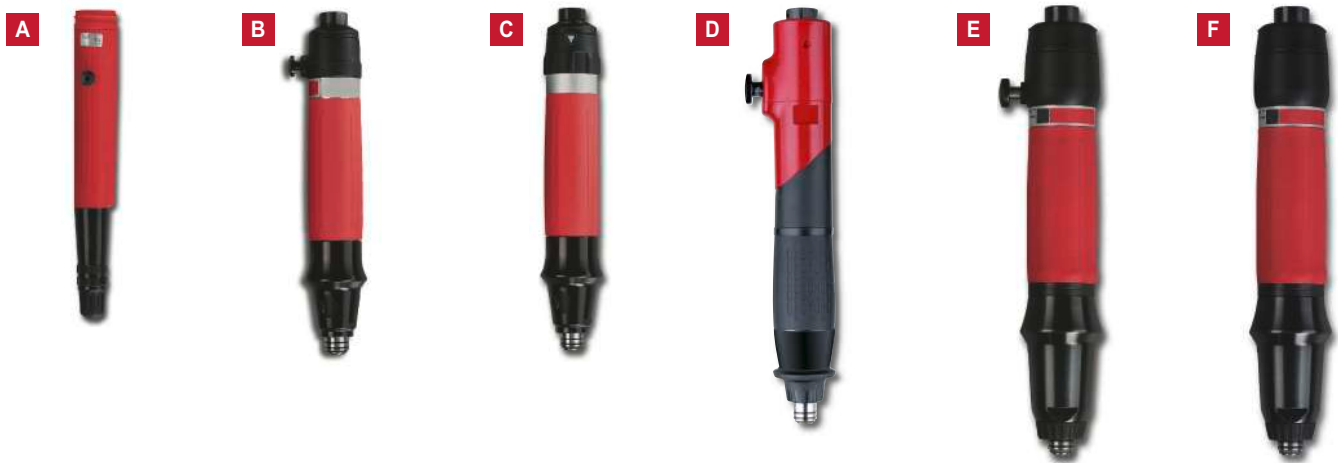


Tool Types and Torque Ranges



Screwdrivers - Shut off - Push start

0.09 to 16 Nm (0.8 to 142 in.lb) - 320 to 3500 rpm



Model	ø A mm (in.)	ø B mm (in.)	L mm (in.)
2A89..	27 (1.06")		178 (7")
SB..	32 (1.26")		197 (7.76")
SC2		37.4 (1.47")	245 (9.65")
SD023..3500	38.7 (1.52")	44 (1.73")	227 (8.94")
SD035..2200	38.7 (1.52")	44 (1.73")	227 (8.94")
SD055..1470	38.7 (1.52")	44 (1.73")	253 (10")
SD075..1100	38.7 (1.52")	44 (1.73")	253 (10")
SD100..820	38.7 (1.52")	44 (1.73")	253 (10")
SD140..510	38.7 (1.52")	44 (1.73")	253 (10")
SD160..320	38.7 (1.52")	44 (1.73")	253 (10")

Types B to C, 1/4" double ended and 5mm bit holder optional

Accessories: see page 88

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT HEX	TORQUE RANGE		FITTED SPRING		WEIGHT		AIR FLOW		AIR INLET	HOSE INT. Ø
					Nm	in.lb	Nm	in.lb	kg	lb.	l/s	cfm	in.	mm
A	2A89-A-1300	1225434	1300	3mm	0.09-0.56	0.8-4.9	0.15-0.43	1.3-3.8	0.21	0.62	2.2	4.7	M5	3 1/8
A	2A89-A-700	1225514	700	3mm	0.09-0.75	0.8-6.6	0.15-0.43	1.3-3.8	0.21	0.62	2.2	4.7	M5	3 1/8
A	2A89-A-400	1225694	400	3mm	0.09-0.78	0.8-6.9	0.15-0.43	1.3-3.8	0.21	0.62	2.2	4.7	M5	3 1/8
A	2A89-A-1300	1223154	1300	1/4	0.09-0.56	0.8-4.9	0.15-0.43	1.3-3.8	0.21	0.62	2.2	4.7	M5	3 1/8
A	2A89-A-700	1223234	700	1/4	0.09-0.75	0.8-6.6	0.15-0.43	1.3-3.8	0.21	0.62	2.2	4.7	M5	3 1/8
A	2A89-A-400	1223314	400	1/4	0.09-0.78	0.8-6.9	0.15-0.43	1.3-3.8	0.21	0.62	2.2	4.7	M5	3 1/8
B	SB011-AB1600-S4Q	1460644	1600	1/4	0.4-1.1	3.5-9.7	0.4-1.1	3.5-9.7	0.42	0.93	4.1	8.7	1/8	5 3/16
B	SB015-AB1100-S4Q	1460634	1100	1/4	0.4-1.5	3.5-13	0.4-1.5	3.5-13	0.42	0.93	4.1	8.7	1/8	5 3/16
B	SB025-AB750-S4Q	1460624	750	1/4	0.4-2.5	3.5-22	0.4-2.5	3.5-22	0.42	0.93	4.1	8.7	1/8	5 3/16
B	SB025-AB500-S4Q	1460684	500	1/4	0.4-2.5	3.5-22	0.4-2.5	3.5-22	0.42	0.93	4.1	8.7	1/8	5 3/16
C	SB011-AR1600-S4Q	1460524	1600	1/4	0.4-1.1	3.5-9.7	0.4-1.1	3.5-9.7	0.42	0.93	4.1	8.7	1/8	5 3/16
C	SB015-AR1100-S4Q	1460514	1100	1/4	0.4-1.5	3.5-13	0.4-1.5	3.5-13	0.42	0.93	4.1	8.7	1/8	5 3/16
C	SB025-AR750-S4Q	1460504	750	1/4	0.4-2.5	3.5-22	0.4-2.5	3.5-22	0.42	0.93	4.1	8.7	1/8	5 3/16
C	SB025-AR500-S4Q	1460564	500	1/4	0.4-2.5	3.5-22	0.4-2.5	3.5-22	0.42	0.93	4.1	8.7	1/8	5 3/16
D	SC2-025-A2200-S4Q	205 147 269 4	2200	1/4	0.5-2.5	4.4-22	0.5-2.5	4.4-22.1	0.69	1.52	7.0	14.8	1/4	6 1/4
D	SC2-035-A1500-S4Q	205 147 268 4	1500	1/4	0.5-3.5	4.4-30.8	1.7-3.5	15.0-30.9	0.69	1.52	7.0	14.8	1/4	6 1/4
D	SC2-045-A1000-S4Q	205 147 267 4	1000	1/4	0.5-4.5	4.4-39.6	1.7-4.5	15.0-39.8	0.69	1.52	7.0	14.8	1/4	6 1/4
D	SC2-055-A700-S4Q	205 147 266 4	700	1/4	0.5-5.5	4.4-48.4	3.0-5.5	26.5-48.6	0.69	1.52	7.0	14.8	1/4	6 1/4
D	SC2-065-A500-S4Q	205 147 265 4	500	1/4	0.5-6.5	4.4-57.2	3.0-6.5	26.5-57.5	0.69	1.52	7.0	14.8	1/4	6 1/4
E	SD023-AB3500-S4Q	1462834	3500	1/4	1.0-2.3	8.9-20.3	1.0-2.3	8.9-20.3	0.73	1.61	8.7	18.4	1/4	10 3/8
E	SD035-AB2200-S4Q	1462824	2200	1/4	1.0-3.5	8.9-31	1.0-3.5	8.9-31	0.73	1.61	8.7	18.4	1/4	10 3/8
E	SD055-AB1470-S4Q	1462814	1470	1/4	0.6-5.5	5.3-48.7	2.0-5.5	17.7-48.7	0.89	1.96	8.7	18.4	1/4	10 3/8
E	SD075-AB1100-S4Q	1462804	1100	1/4	0.6-7.5	5.3-66.4	2.5-7.5	22.0-66.4	0.89	1.96	8.7	18.4	1/4	10 3/8
E	SD100-AB820-S4Q	1462794	820	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10 3/8
E	SD140-AB510-S4Q	1462784	510	1/4	0.6-14	5.3-124	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10 3/8
E	SD160-AB320-S4Q	1462774	320	1/4	0.6-16	5.3-142	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10 3/8
F	SD023-AR3500-S4Q	1462764	3500	1/4	1.0-2.3	8.9-20.4	1.0-2.3	8.9-20.4	0.73	1.61	8.7	18.4	1/4	10 3/8
F	SD035-AR2200-S4Q	1462754	2200	1/4	1.0-3.5	8.9-31	1.0-3.5	8.9-31	0.73	1.61	8.7	18.4	1/4	10 3/8
F	SD055-AR1470-S4Q	1462744	1470	1/4	0.6-5.5	5.3-48.7	2.0-5.5	17.7-48.7	0.89	1.96	8.7	18.4	1/4	10 3/8
F	SD075-AR1100-S4Q	1462734	1100	1/4	0.6-7.5	5.3-66.4	2.5-7.5	22.1-66.4	0.89	1.96	8.7	18.4	1/4	10 3/8
F	SD100-AR820-S4Q	1462724	820	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10 3/8
F	SD140-AR510-S4Q	1462714	510	1/4	0.6-14	5.3-124	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10 3/8
F	SD160-AR320-S4Q	1462704	320	1/4	0.6-16	5.3-142	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10 3/8

Screwdrivers - Shut off - Lever start

0.4 to 16 Nm (3.5 to 142 in.lb) - 320 to 3500 rpm



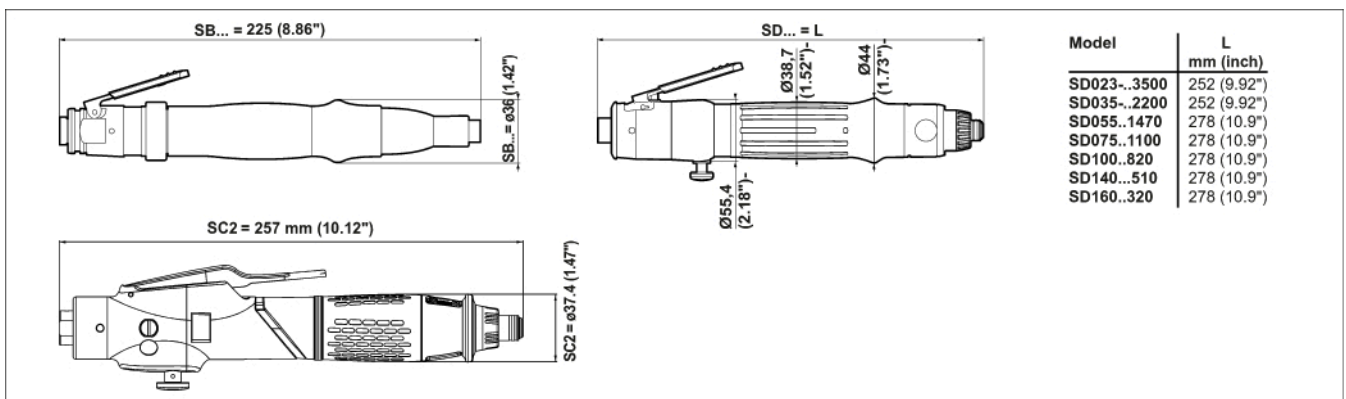
Easy integration with FAS3000 or POSCO



See page 49



See page 76



Accessories: see page 88

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT HEX	TORQUE RANGE		FITTED SPRING		WEIGHT		AIR FLOW		AIR INLET	HOSE INT. Ø	
					Nm	in.lb	Nm	in.lb	kg	lb.	l/s	cfm	in.	mm	in.
A	SB021-LR2000-S4Q	205 147 509 4	2000	1/4	0.5-2.1	4.4-18.6	0.5-2.1	4.4-18.6	0.61	1.34	7.3	15.5	1/8	6	1/4
A	SB021-LR1400-S4Q	205 147 508 4	1400	1/4	0.5-2.1	4.4-18.6	0.5-2.1	4.4-18.6	0.61	1.34	7.3	15.5	1/8	6	1/4
A	SB043-LR1050-S4Q	205 147 507 4	1050	1/4	0.4-4.3	3.5-38	0.4-2.1	3.5-18.6	0.61	1.34	7.3	15.5	1/8	6	1/4
A	SB047-LR500-S4Q	205 147 506 4	500	1/4	0.4-4.7	3.5-41.6	0.4-2.1	3.5-18.6	0.61	1.34	7.3	15.5	1/8	6	1/4
B	SC2-025-L2200-S4Q	205 147 283 4	2200	1/4	0.5-2.5	4.4-22	0.5-2.5	4.4-22.1	0.69	1.52	7.0	14.8	1/4	6	1/4
B	SC2-035-L1500-S4Q	205 147 282 4	1500	1/4	0.5-3.5	4.4-30.8	1.7-3.5	15.0-30.9	0.69	1.52	7.0	14.8	1/4	6	1/4
B	SC2-045-L1000-S4Q	205 147 281 4	1000	1/4	0.5-4.5	4.4-39.6	1.7-4.5	15.0-39.8	0.69	1.52	7.0	14.8	1/4	6	1/4
B	SC2-055-L700-S4Q	205 147 280 4	700	1/4	0.5-5.5	4.4-48.4	3.0-5.5	26.5-48.6	0.69	1.52	7.0	14.8	1/4	6	1/4
B	SC2-065-L500-S4Q	205 147 279 4	500	1/4	0.5-6.5	4.4-57.2	3.0-6.5	26.5-57.5	0.69	1.52	7.0	14.8	1/4	6	1/4
C	SD023-LB3500-S4Q	1463094	3500	1/4	1.0-2.3	8.9-20.4	1.0-2.3	8.9-20.4	0.76	1.67	8.7	18.4	1/4	10	3/8
C	SD035-LB2200-S4Q	1463084	2200	1/4	1.0-3.5	8.9-31	1.0-3.5	8.9-31	0.76	1.67	8.7	18.4	1/4	10	3/8
C	SD055-LB1470-S4Q	1463074	1470	1/4	0.6-5.5	5.3-48.7	2.0-5.5	17.7-48.7	0.92	2.03	8.7	18.4	1/4	10	3/8
C	SD075-LB1100-S4Q	1463064	1100	1/4	0.6-7.5	5.3-66.4	2.5-7.5	22.1-66.4	0.92	2.03	8.7	18.4	1/4	10	3/8
C	SD100-LB820-S4Q	1463054	820	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8
C	SD140-LB510-S4Q	1463044	510	1/4	0.6-14	5.3-124	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8
C	SD160-LB320-S4Q	1463034	320	1/4	0.6-16	5.3-142	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8
D	SD023-LR3500-S4Q	1463024	3500	1/4	1.0-2.3	8.9-20.4	1.0-2.3	8.9-20.4	0.76	1.67	8.7	18.4	1/4	10	3/8
D	SD035-LR2200-S4Q	1463014	2200	1/4	1.0-3.5	8.9-31	1.0-3.5	8.9-31	0.76	1.67	8.7	18.4	1/4	10	3/8
D	SD055-LR1470-S4Q	1463004	1470	1/4	0.6-5.5	5.3-48.7	2.0-5.5	17.7-48.7	0.92	2.03	8.7	18.4	1/4	10	3/8
D	SD075-LR1100-S4Q	1462994	1100	1/4	0.6-7.5	5.3-66.4	2.5-7.5	22.1-66.4	0.92	2.03	8.7	18.4	1/4	10	3/8
D	SD100-LR820-S4Q	1462984	820	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8
D	SD140-LR510-S4Q	1462974	510	1/4	0.6-14	5.3-124	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8
D	SD160-LR320-S4Q	1462964	320	1/4	0.6-16	5.3-142	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8

Screwdrivers - Shut off - Pistol grip

0.4 to 16 Nm (3.5 to 142 in.lb) - 180 to 3500 rpm



Model	ØA mm (in.)	L mm (in.)
SBP..	31 (1.22")	182 (7.17")
SCBP..	31 (1.22")	182 (7.17")
SCP...	34 (1.34")	228 (8.97")
SCPT...	34 (1.34")	230 (9.06")
SDP023..3400	36 (1.42")	194 (7.64")
SDP035..2100	36 (1.42")	194 (7.64")
SDP055..1400	36 (1.42")	220 (8.66")
SDP075..1050	36 (1.42")	220 (8.66")
SDP100..780	36 (1.42")	220 (8.66")
SDP140..490	36 (1.42")	220 (8.66")
SDP160..300	36 (1.42")	220 (8.66")
SDP045..180	36 (1.42")	220 (8.66")

Model	L mm (in.)
SDT023..3500	212 (8.35")
SDT035..1100	212 (8.35")
SDT035..2200	212 (8.35")
SDT055..1470	238 (9.37")
SDT075..1100	238 (9.37")
SDT100..800	238 (9.37")
SDT140..510	238 (9.37")
SDT160..320	238 (9.37")

Types D and E, Top air inlet

Accessories: see page 88

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT HEX	TORQUE RANGE		FITTED SPRING		WEIGHT		AIR FLOW		AIR INLET		HOSE INT. Ø	
			rpm	in.	Nm	in.lb	Nm	in.lb	kg	lb.	l/s	cfm	in.	mm	in.	

PUSH AND TRIGGER START

A	SBP021-T2300-S4Q	1462144	2300	1/4	0.4-2.1	3.5-18.6	0.4-2.1	3.5-18.6	0.82	1.81	6.5	13.8	1/8	6	1/4
A	SBP021-T1600-S4Q	1462154	1600	1/4	0.4-2.1	3.5-18.6	0.4-2.1	3.5-18.6	0.82	1.81	6.5	13.8	1/8	6	1/4
A	SBP043-T1100-S4Q	1462164	1100	1/4	0.4-4.3	3.5-38	1.8-4.3	15.9-38.0	0.82	1.81	6.5	13.8	1/8	6	1/4
A	SBP047-T550-S4Q	1462174	550	1/4	0.4-4.7	3.5-41.6	1.8-4.7	15.9-41.5	0.82	1.81	6.5	13.8	1/8	6	1/4

TRIGGER START

A	SCBP021-T2300-S4Q	1466374	2300	1/4	0.4-2.1	3.5-18.6	0.4-2.1	3.5-18.6	0.82	1.81	6.5	13.8	1/8	6	1/4
A	SCBP021-T1600-S4Q	1466364	1600	1/4	0.4-2.1	3.5-18.6	0.4-2.1	3.5-18.6	0.82	1.81	6.5	13.8	1/8	6	1/4
A	SCBP043-T1100-S4Q	1466354	1100	1/4	0.4-4.3	3.5-38	1.8-4.3	15.9-38	0.82	1.81	6.5	13.8	1/8	6	1/4
A	SCBP044-T740-S4Q	1466344	740	1/4	0.4-4.4	3.5-39	1.8-4.4	15.9-39	0.82	1.81	6.5	13.8	1/8	6	1/4
A	SCBP047-T550-S4Q	1466334	550	1/4	0.4-4.7	3.5-41.6	1.8-4.7	15.9-41.6	0.82	1.81	6.5	13.8	1/8	6	1/4
B	SCP021-T2300-S4Q	1456734	2300	1/4	0.4-2.1	3.5-18.6	0.4-0.9	3.5-7.9	0.86	1.89	6.5	13.8	1/8	6	1/4
B	SCP021-T1600-S4Q	1456744	1600	1/4	0.4-2.1	3.5-18.6	0.6-2.1	5.3-18.6	0.86	1.89	6.5	13.8	1/8	6	1/4
B	SCP043-T1100-S4Q	1456754	1100	1/4	0.4-4.3	3.5-38	0.9-4.3	7.9-38	0.86	1.89	6.5	13.8	1/8	6	1/4
B	SCP047-T550-S4Q	1456764	550	1/4	0.4-4.7	3.5-41.6	0.9-4.7	7.9-41.6	0.86	1.89	6.5	13.8	1/8	6	1/4
C	SDP023-T3400-S4Q	1465574	3400	1/4	1.0-2.3	8.9-20.3	1.0-2.3	8.9-20.3	0.9	1.98	9.0	19.1	1/4	10	3/8
C	SDP035-T2100-S4Q	1465564	2100	1/4	1.0-3.5	8.9-31	1.0-3.5	8.9-31	0.9	1.98	9.0	19.1	1/4	10	3/8
C	SDP055-T1400-S4Q	1465554	1400	1/4	1.0-5.5	8.9-48.7	1.0-5.5	8.9-48.7	1.0	2.20	9.0	19.1	1/4	10	3/8
C	SDP075-T1050-S4Q	1465544	1050	1/4	0.6-7.5	5.3-66.4	2.5-7.5	22.1-66.4	1.0	2.20	9.0	19.1	1/4	10	3/8
C	SDP100-T780-S4Q	1465534	780	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	1.0	2.20	9.0	19.1	1/4	10	3/8
C	SDP140-T490-S4Q	1465524	490	1/4	0.6-14	5.3-124	3.5-10	31.0-88.5	1.0	2.20	9.0	19.1	1/4	10	3/8
C	SDP160-T300-S4Q	1465514	300	1/4	0.6-16	5.3-142	3.5-10	31.0-88.5	1.0	2.20	9.0	19.1	1/4	10	3/8
C	SDP045-T180-S4Q	205 146 706 4	180	1/4	1.5-4.5	13.3-39.8	1.5-4.5	13.3-39.8	1.0	2.20	9.0	19.1	1/4	10	3/8
D	SDT023-T3500-S4Q	1465784	3500	1/4	1.0-2.3	8.9-20.3	1.0-2.3	8.9-20.3	1.1	2.42	9.0	19.1	1/4	10	3/8
D	SDT035-T1100-S4Q	205 147 623 4	1100	1/4	1.0-3.5	8.9-31	1.0-3.5	8.9-31	1.0	2.20	9.0	19.1	1/4	10	3/8
D	SDT035-T2200-S4Q	1465774	2200	1/4	1.0-3.5	8.9-31	1.0-3.5	8.9-31	1.1	2.42	9.0	19.1	1/4	10	3/8
D	SDT055-T1470-S4Q	1465764	1470	1/4	2.0-5.5	17.7-48.7	2.0-5.5	17.7-48.7	1.1	2.42	9.0	19.1	1/4	10	3/8
D	SDT075-T1100-S4Q	1465754	1100	1/4	2.5-7.5	22.1-66.4	2.5-7.5	22.1-66.4	1.1	2.42	9.0	19.1	1/4	10	3/8
D	SDT100-T820-S4Q	1465744	820	1/4	3.5-10	31.0-88.5	3.5-10	31.0-88.5	1.1	2.42	9.0	19.1	1/4	10	3/8
D	SDT140-T510-S4Q	1465734	510	1/4	3.5-14	31.0-124	3.5-10	31.0-88.5	1.1	2.42	9.0	19.1	1/4	10	3/8
D	SDT160-T320-S4Q	1465724	320	1/4	3.5-16	31.0-142	3.5-10	31.0-88.5	1.1	2.42	9.0	19.1	1/4	10	3/8

PUSH START, TOP AIR INLET

E	SCPT021-A2300-S4Q	1458974	2300	1/4	0.4-2.1	3.5-18.6	0.4-0.9	3.5-7.9	0.86	1.89	6.5	13.8	1/8	6	1/4
E	SCPT021-A1600-S4Q	1458934	1600	1/4	0.4-2.1	3.5-18.6	0.6-2.1	5.3-18.6	0.86	1.89	6.5	13.8	1/8	6	1/4
E	SCPT043-A1100-S4Q	1458894	1100	1/4	0.4-4.3	3.5-38	0.9-4.3	7.9-38.0	0.86	1.89	6.5	13.8	1/8	6	1/4
E	SCPT047-A550-S4Q	1458854	550	1/4	0.4-4.7	3.5-41.6	0.9-4.7	7.9-41.6	0.86	1.89	6.5	13.8	1/8	6	1/4

Screwdrivers - Shut off HLT

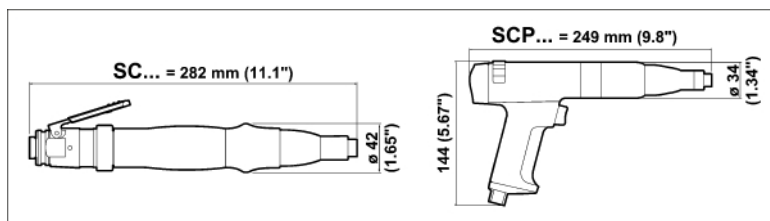
0.4 to 4.7 Nm (3.5 to 41.6 in.lb) - 550 to 1600 rpm



A

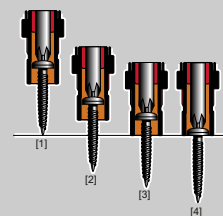


B

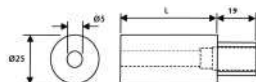
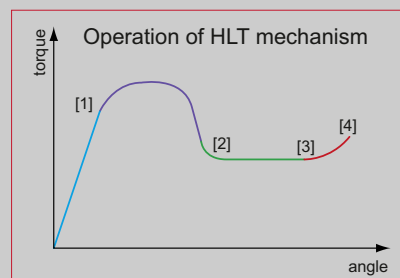


TYPICAL HLT CYCLE

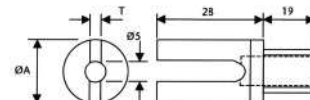
- 1 Tool starts to cut/form thread – direct drive
- 2 Thread is cut/formed, rundown continues – direct drive
- 3 Depth stop touches component, drive engages clutch
- 4 Final torque achieved, clutch operates and air supply is shut off



Depth stop changes tool from direct drive to clutch operation



C



D

DEPTH STOPS

PIC REF	PART NUMBER	LENGTH
		mm
C	440833	28
C	440843	48
C	440853	127

PIC REF	PART NUMBER	T	ØA
		mm	mm
D	440863*	5	25

* Supplied with tools

Accessories: see page 88



PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT HEX	TORQUE RANGE		FITTED SPRING		WEIGHT		AIR FLOW	AIR INLET	HOSE INT. Ø		
			rpm	in.	Nm	in.lb	Nm	in.lb	kg	lb.	l/s	cfm	in.	mm	in.
A	SC009-L1600-HLT4M	1459644	1600	1/4	0.4-0.9	3.5-7.9	0.4-0.9	3.5-7.9	0.79	1.74	7	15.4	1/8	6	1/4
A	SC021-L1600-HLT4M	1459614	1600	1/4	0.6-2.1	5.3-18.6	0.6-2.1	5.3-18.6	0.79	1.74	7	15.4	1/8	6	1/4
A	SC022-L1100-HLT4M	1459654	1100	1/4	0.6-2.1	5.3-18.6	0.6-2.1	5.3-18.6	0.79	1.74	7	15.4	1/8	6	1/4
A	SC022-L550-HLT4M	1459664	550	1/4	0.6-2.1	5.3-18.6	0.6-2.1	5.3-18.6	0.79	1.74	7	15.4	1/8	6	1/4
A	SC043-L1100-HLT4M	1459624	1100	1/4	0.9-4.3	7.9-38.0	0.9-4.3	7.9-38.0	0.79	1.74	7	15.4	1/8	6	1/4
A	SC047-L550-HLT4M	1459634	550	1/4	0.9-4.7	7.9-41.6	0.9-4.7	7.9-41.6	0.79	1.74	7	15.4	1/8	6	1/4
B	SCP009-T1600-HLT4M	1459704	1600	1/4	0.4-0.9	3.5-7.9	0.4-0.9	3.5-7.9	1.00	2.20	7	15.4	1/8	6	1/4
B	SCP021-T1600-HLT4M	1459714	1600	1/4	0.6-2.1	5.3-18.6	0.6-2.1	5.3-18.6	1.00	2.20	7	15.4	1/8	6	1/4
B	SCP022-T1100-HLT4M	1459724	1100	1/4	0.6-2.1	5.3-18.6	0.6-2.1	5.3-18.6	1.00	2.20	7	15.4	1/8	6	1/4
B	SCP043-T1100-HLT4M	1459734	1100	1/4	0.9-4.3	7.9-38.0	0.9-4.3	7.9-38.0	1.00	2.20	7	15.4	1/8	6	1/4
B	SCP047-T550-HLT4M	1459754	550	1/4	0.9-4.7	7.9-41.6	0.9-4.7	7.9-41.6	1.00	2.20	7	15.4	1/8	6	1/4

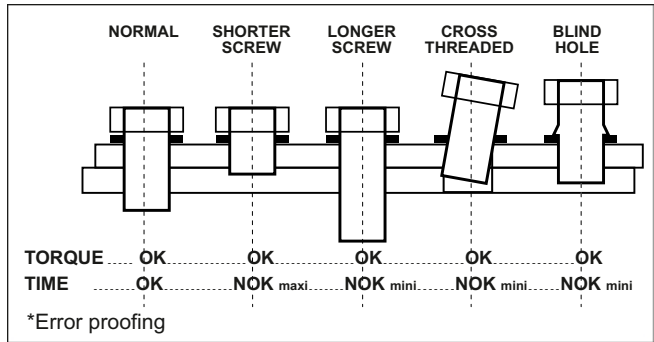
FAS3000 – Fastening Assurance System

The FAS3000 – Fastening Assurance System provides the ability to verify that all the fasteners in an assembly have been correctly fastened without the level of investment usually associated with assembly control systems and additional inspection.

Features

- Automatic and quick calibration.
- 8 programs for different fastener profiles.
- Up to 250 fasteners per program.
- OK and Not OK visual indicators for each fastener.
- Audible error warning for Not OK.
- 'Group Cycle Complete' visual indicator.
- Manual lockable reset switch.
- Password protection of parameters.
- 4 output sockets for interfacing with other equipment including inputs as well as output signals.
- EMC approved.

Coded error messages



START-UP KIT

to be ordered with the FAS3000

PART NO.

POWER CABLE AND PLUG

		LENGTH	
A	Power Cable Europe	2m (78")	396853
B	Power Cable USA	2m (78")	459323
C	Power Cable UK	2m (78")	396843

ACCESSORIES INCLUDED

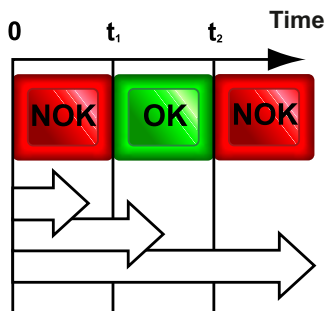
ITEM	LENGTH	PART NO.	
D	Sensor Assembly	2m (78")	205 047 908 3
E	Sensor electric cord	5m (197")	205 047 964 3

OPTIONAL ACCESSORIES

ITEM	PART NO.
1 Male Stud Elbow M5-D4	615 746 083 0
2 Male Stud M5-D4	615 746 144 0
3 Tube connector D4-D4	615 746 145 0
• M5 Straight Fitting	444973
• M5 Elbow Fitting	444983

MODEL	PART NUMBER	LENGTH		DIMENSIONS WIDTH		HEIGHT		WEIGHT		SUPPLY VOLTAGE
		mm	in.	mm	in.	mm	in.	kg	lb.	
FAS3000	205 146 677 4	317	12.5	161	6.4	87	3.4	3	6.6	AC220-240V, 50Hz & AC110-120V, 60Hz

By comparing the timing of pneumatic signals from a shut off screwdriver with set parameters, the fastening cycle can be monitored and output signals generated for OK and NOK.



OPERATING SEQUENCE

t_1 = Minimum time

t_2 = Maximum time

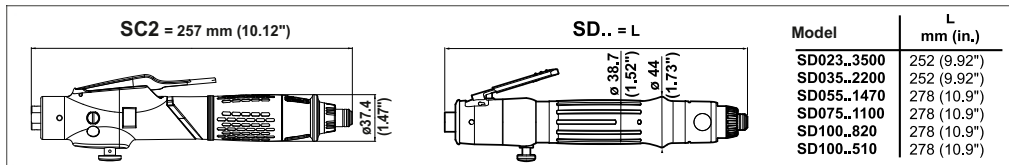
Clutch operated before minimum time, lever/trigger released before minimum time.

Indicates crossed thread, screw too short, thread too short, too many washers. Clutch operated within time limits - OK.

Clutch operated after maximum time. Screw too long, no thread in component, stripped thread, no washers on assembly.

Screwdrivers - Non Shut off - Push and Lever start

0.4 to 10 Nm (3.5 to 88.5 in.lb) - 510 to 3500 rpm



Types A, B and F - 5/16" hex bit holder optional

Accessories: see page 88

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT HEX	TORQUE RANGE		FITTED SPRING		WEIGHT		AIR FLOW		AIR INLET		HOSE INT. Ø	
					Nm	in.lb	Nm	in.lb	kg	lb.	l/s	cfm	in.	mm	in.	

PUSH START

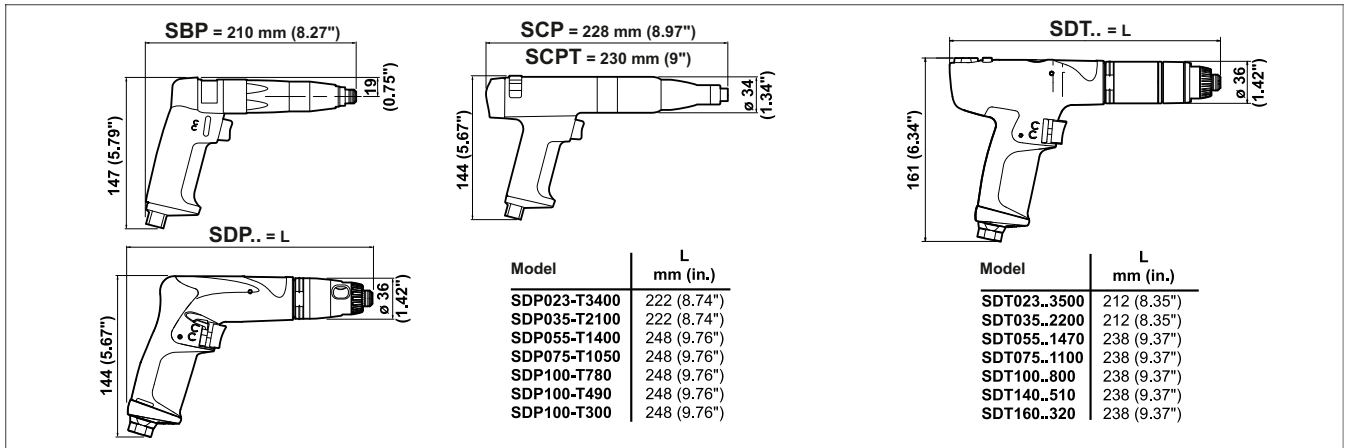
A	SC2-025-A2200-R4Q	205 147 276 4	2200	1/4	0.5-2.5	4.4-22.0	0.5-2.5	4.4-22.1	0.69	1.52	7.0	14.8	1/4	6	1/4
A	SC2-035-A1500-R4Q	205 147 275 4	1500	1/4	0.5-3.5	4.4-30.8	1.7-3.5	15.0-30.9	0.69	1.52	7.0	14.8	1/4	6	1/4
A	SC2-045-A1000-R4Q	205 147 274 4	1000	1/4	0.5-4.5	4.4-39.6	1.7-4.5	15.0-39.8	0.69	1.52	7.0	14.8	1/4	6	1/4
A	SC2-055-A700-R4Q	205 147 273 4	700	1/4	0.5-5.5	4.4-48.4	3.0-5.5	26.5-48.6	0.69	1.52	7.0	14.8	1/4	6	1/4
A	SC2-065-A500-R4Q	205 147 272 4	500	1/4	0.5-6.5	4.4-57.2	3.0-6.5	26.5-57.5	0.69	1.52	7.0	14.8	1/4	6	1/4
B	SD023-AB3500-R4Q	1462954	3500	1/4	1.0-2.3	8.9-20.3	1.0-2.3	8.9-20.3	0.73	1.61	8.7	18.4	1/4	10	3/8
B	SD035-AB2200-R4Q	1462944	2200	1/4	1.0-3.5	8.9-31.0	1.0-3.5	8.9-31.0	0.73	1.61	8.7	18.4	1/4	10	3/8
B	SD055-AB1470-R4Q	1462934	1470	1/4	0.6-5.5	5.3-48.7	2.0-5.5	17.7-48.7	0.89	1.96	8.7	18.4	1/4	10	3/8
B	SD075-AB1100-R4Q	1462924	1100	1/4	0.6-7.5	5.3-66.4	2.5-7.5	22.1-66.4	0.89	1.96	8.7	18.4	1/4	10	3/8
B	SD100-AB820-R4Q	1462914	820	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8
B	SD100-AB510-R4Q	1462904	510	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8
C	SD023-AR3500-R4Q	1462894	3500	1/4	1.0-2.3	8.9-20.3	1.0-2.3	8.9-20.3	0.73	1.61	8.7	18.4	1/4	10	3/8
C	SD035-AR2200-R4Q	1462884	2200	1/4	1.0-3.5	8.9-31.0	1.0-3.5	8.9-31.0	0.73	1.61	8.7	18.4	1/4	10	3/8
C	SD055-AR1470-R4Q	1462874	1470	1/4	0.6-5.5	5.3-48.7	2.0-5.5	17.7-48.7	0.89	1.96	8.7	18.4	1/4	10	3/8
C	SD075-AR1100-R4Q	1462864	1100	1/4	0.6-7.5	5.3-66.4	2.5-7.5	22.1-66.4	0.89	1.96	8.7	18.4	1/4	10	3/8
C	SD100-AR820-R4Q	1462854	820	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8
C	SD100-AR510-R4Q	1462844	510	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8

LEVER START

D	SC2-025-L2200-R4Q	205 147 290 4	2200	1/4	0.5-2.5	4.4-22.0	0.5-2.5	4.4-22.1	0.69	1.52	7.0	14.8	1/4	6	1/4
D	SC2-035-L1500-R4Q	205 147 289 4	1500	1/4	0.5-3.5	4.4-30.8	1.7-3.5	15.0-30.9	0.69	1.52	7.0	14.8	1/4	6	1/4
D	SC2-045-L1000-R4Q	205 147 288 4	1000	1/4	0.5-4.5	4.4-39.6	1.7-4.5	15.0-39.8	0.69	1.52	7.0	14.8	1/4	6	1/4
D	SC2-055-L700-R4Q	205 147 287 4	700	1/4	0.5-5.5	4.4-48.4	3.0-5.5	26.5-48.6	0.69	1.52	7.0	14.8	1/4	6	1/4
D	SC2-065-L500-R4Q	205 147 286 4	500	1/4	0.5-6.5	4.4-57.2	3.0-6.5	26.5-57.5	0.69	1.52	7.0	14.8	1/4	6	1/4
E	SD023-LB3500-R4Q	1463214	3500	1/4	1.0-2.3	8.9-20.3	1.0-2.3	8.9-20.3	0.76	1.67	8.7	18.4	1/4	10	3/8
E	SD035-LB2200-R4Q	1463204	2200	1/4	1.0-3.5	8.9-31.0	1.0-3.5	8.9-31.0	0.76	1.67	8.7	18.4	1/4	10	3/8
E	SD055-LB1470-R4Q	1463194	1470	1/4	0.6-5.5	5.3-48.7	2.0-5.5	17.7-48.7	0.92	2.03	8.7	18.4	1/4	10	3/8
E	SD075-LB1100-R4Q	1463184	1100	1/4	0.6-7.5	5.3-66.4	2.5-7.5	22.1-66.4	0.92	2.03	8.7	18.4	1/4	10	3/8
E	SD100-LB820-R4Q	1463174	820	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8
E	SD100-LB510-R4Q	1463164	510	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8
F	SD023-LR3500-R4Q	1463154	3500	1/4	1.0-2.3	8.9-20.3	1.0-2.3	8.9-20.3	0.76	1.67	8.7	18.4	1/4	10	3/8
F	SD035-LR2200-R4Q	1463144	2200	1/4	1.0-3.5	8.9-31.0	1.0-3.5	8.9-31.0	0.76	1.67	8.7	18.4	1/4	10	3/8
F	SD055-LR1470-R4Q	1463134	1470	1/4	0.6-5.5	5.3-48.7	2.0-5.5	17.7-48.7	0.92	2.03	8.7	18.4	1/4	10	3/8
F	SD075-LR1100-R4Q	1463124	1100	1/4	0.6-7.5	5.3-66.4	2.5-7.5	22.1-66.4	0.92	2.03	8.7	18.4	1/4	10	3/8
F	SD100-LR820-R4Q	1463114	820	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8
F	SD100-LR510-R4Q	1463104	510	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8

Screwdrivers - Non Shut Off - Pistol Grip

0.4 to 10 Nm (3.5 to 88.5 in.lb) - 300 to 3500 rpm

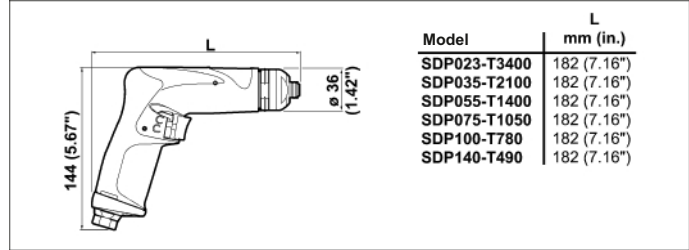


Accessories: see page 88

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT HEX	TORQUE RANGE		FITTED SPRING		WEIGHT		AIR FLOW		AIR INLET		HOSE INT. Ø	
					Nm	in.lb	Nm	in.lb	kg	lb.	l/s	cfm	in.	mm	in.	
			rpm	in.	Nm	in.lb	Nm	in.lb	kg	lb.	l/s	cfm	in.	mm	in.	
PUSH AND TRIGGER START																
A	SBP024-T2300-R4Q	1462184	2300	1/4	0.5-2.4	4.4-21.2	0.5-2.4	4.4-21.2	0.82	1.81	6.5	13.8	1/8	6	1/4	
A	SBP022-T1600-R4Q	1462194	1600	1/4	0.5-2.2	4.4-19.4	0.5-2.2	4.4-19.4	0.82	1.81	6.5	13.8	1/8	6	1/4	
A	SBP044-T1100-R4Q	1462204	1100	1/4	0.4-4.4	3.5-38.9	1.8-4.4	15.9-38.9	0.82	1.81	6.5	13.8	1/8	6	1/4	
A	SBP044-T550-R4Q	1462214	550	1/4	0.4-4.4	3.5-38.9	1.8-4.4	15.9-38.9	0.82	1.81	6.5	13.8	1/8	6	1/4	
TRIGGER START																
B	SCP024-T2300-R4Q	1456774	2300	1/4	0.5-2.4	4.4-21.2	0.5-1.8	4.4-15.9	0.86	1.89	6.5	13.8	1/8	6	1/4	
B	SCP022-T1600-R4Q	1456784	1600	1/4	0.5-2.2	4.4-19.4	0.8-2.2	7.1-19.4	0.86	1.89	6.5	13.8	1/8	6	1/4	
B	SCP044-T1100-R4Q	1456794	1100	1/4	0.4-4.4	3.5-38.9	1.3-4.4	11.5-38.9	0.86	1.89	6.5	13.8	1/8	6	1/4	
B	SCP044-T550-R4Q	1456804	550	1/4	0.4-4.4	3.5-38.9	1.0-4.4	8.9-38.9	0.86	1.89	6.5	13.8	1/8	6	1/4	
C	SDP023-T3400-R4Q	1465644	3400	1/4	1.0-2.3	8.8-20.3	1.0-2.3	8.9-20.3	0.90	1.98	9.0	19.1	1/4	10	3/8	
C	SDP035-T2100-R4Q	1465634	2100	1/4	1.0-3.5	8.8-31.0	1.0-3.5	8.9-31.0	0.90	1.98	9.0	19.1	1/4	10	3/8	
C	SDP055-T1400-R4Q	1465624	1400	1/4	1.0-5.5	8.8-48.6	1.0-5.5	8.9-48.6	1.00	2.20	9.0	19.1	1/4	10	3/8	
C	SDP075-T1050-R4Q	1465614	1050	1/4	0.6-7.5	5.3-66.3	2.5-7.5	22.1-66.3	1.00	2.20	9.0	19.1	1/4	10	3/8	
C	SDP100-T780-R4Q	1465604	780	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	1.00	2.20	9.0	19.1	1/4	10	3/8	
C	SDP100-T490-R4Q	1465594	490	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	1.00	2.20	9.0	19.1	1/4	10	3/8	
C	SDP100-T300-R4Q	1465584	300	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	1.00	2.20	9.0	19.1	1/4	10	3/8	
D	SDT023-T3500-R4Q	205 147 635 4	3500	1/4	1.0-2.3	8.9-20.3	1.0-2.3	8.9-20.3	1.10	2.42	9.0	19.1	1/4	10	3/8	
D	SDT035-T2200-R4Q	205 147 636 4	2200	1/4	1.0-3.5	8.9-31	1.0-3.5	8.9-31.0	1.10	2.42	9.0	19.1	1/4	10	3/8	
D	SDT055-T1470-R4Q	205 147 637 4	1470	1/4	2.0-5.5	17.7-48.7	2.0-5.5	17.7-48.7	1.10	2.42	9.0	19.1	1/4	10	3/8	
D	SDT075-T1100-R4Q	205 147 638 4	1100	1/4	2.5-7.5	22.1-66.4	2.5-7.5	22.1-66.4	1.10	2.42	9.0	19.1	1/4	10	3/8	
D	SDT100-T820-R4Q	205 147 639 4	820	1/4	3.5-10	31.0-88.5	3.5-10	31.0-88.5	1.10	2.42	9.0	19.1	1/4	10	3/8	
D	SDT100-T510-R4Q	205 147 644 4	510	1/4	3.5-10	31.0-88.5	3.5-10	31.0-88.5	1.10	2.42	9.0	19.1	1/4	10	3/8	
D	SDT100-T320-R4Q	205 147 641 4	320	1/4	3.5-10	31.0-88.5	3.5-10	31.0-88.5	1.10	2.42	9.0	19.1	1/4	10	3/8	
PUSH START, TOP AIR INLET																
E	SCPT024-A2300-R4Q	1458994	2300	1/4	0.5-2.4	4.4-21.2	0.5-1.8	4.4-15.9	0.86	1.89	6.5	13.8	1/8	6	1/4	
E	SCPT022-A1600-R4Q	1458954	1600	1/4	0.5-2.2	4.4-19.4	0.8-2.2	7.1-19.4	0.86	1.89	6.5	13.8	1/8	6	1/4	
E	SCPT044-A1100-R4Q	1458914	1100	1/4	0.4-4.4	3.5-38.9	1.3-4.4	11.5-38.9	0.86	1.89	6.5	13.8	1/8	6	1/4	

Screwdrivers - Direct drive Pistol grip

1 to 14 Nm (8.9 to 124 in.lb) - 490 to 3400 rpm



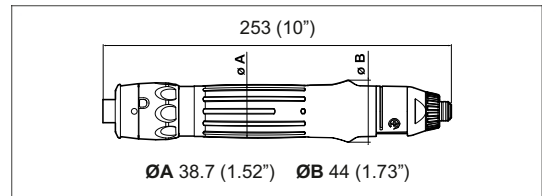
Accessories: see page 89

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT HEX	TORQUE RANGE		WEIGHT		AIR FLOW		AIR INLET	HOSE INT. Ø	
			rpm	in.	Nm	in.lb	kg	lb.	l/s	cfm	in.	mm	in.
A	SDP023-T3400-D4Q	1465714	3400	1/4	1.0-2.3	8.9-20.3	0.8	1.76	9.0	19.1	1/4	10	3/8
A	SDP035-T2100-D4Q	1465704	2100	1/4	1.0-3.5	8.9-31.0	0.8	1.76	9.0	19.1	1/4	10	3/8
A	SDP055-T1400-D4Q	1465694	1400	1/4	1.0-5.5	8.9-48.6	0.8	1.76	9.0	19.1	1/4	10	3/8
A	SDP075-T1050-D4Q	1465684	1050	1/4	3.5-7.5	31.0-66.3	0.8	1.76	9.0	19.1	1/4	10	3/8
A	SDP100-T780-D4Q	1465674	780	1/4	3.5-10.0	31.0-88.5	0.8	1.76	9.0	19.1	1/4	10	3/8
A	SDP140-T490-D4Q	1465664	490	1/4	3.5-14.0	31.0-124	0.8	1.76	9.0	19.1	1/4	10	3/8

Screwdrivers - Left hand tightening

Shut off - Push start

0.6 to 16 Nm (5.3 to 142 in.lb) - 320 rpm



Accessories: see page 88

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT HEX	TORQUE RANGE		FITTED SPRING		WEIGHT		AIR FLOW		AIR INLET	HOSE INT. Ø	
			rpm	in.	Nm	in.lb	Nm	in.lb	kg	lb.	l/s	cfm	in.	mm	in.
A	SD160L-AR320-S4Q	205 147 799 4	320	1/4	0.6-16.0	5.3-142	3.5-10.0	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8

Screwdrivers - Automatic reverse

0.6 to 15 Nm (5.3 to 138 in.lb) - 400 to 1100 rpm



A

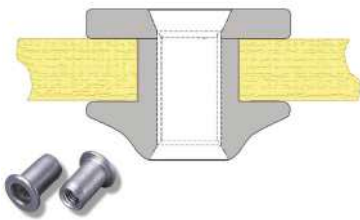
Tool shown with optional clutch HSG and bit adaptor



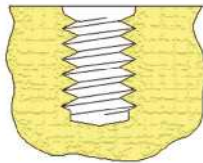
B

Applications

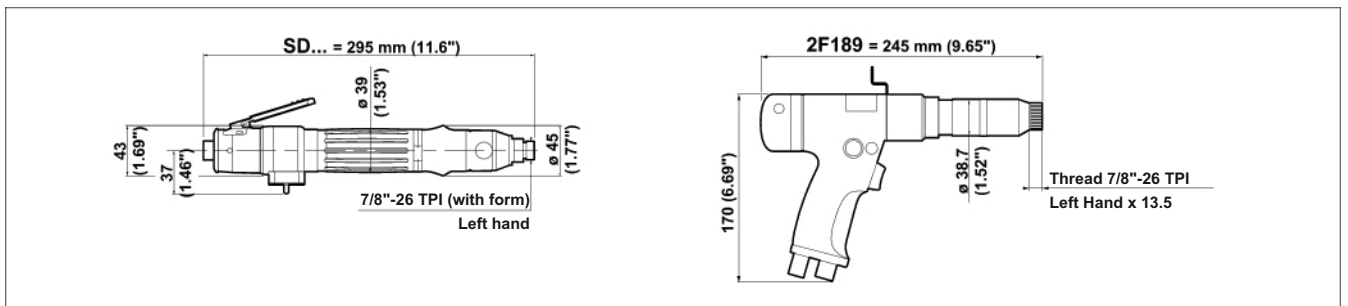
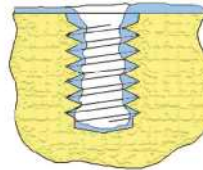
Placement of Threaded Fasteners



Tapping in Blind Holes



Clearing Tapped Holes after Painting or Coating



Accessories: see page 88

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT HEX	TORQUE RANGE		WEIGHT		AIR FLOW		AIR INLET	HOSE INT. Ø	
			rpm	in.	Nm	in.lb	kg	lb.	l/s	cfm	in.	mm	in.
A	SD140-LA510-S4	1464584	510	See	0.6-14	5.3-124	1.0	2.2	8.7	18.4	1/4	10	3/8
A	SD075-LA1100-S4	1464604	1100	Accessories	0.6-7.5	5.3-66.4	1.0	2.2	8.7	18.4	1/4	10	3/8
B	2F189-PX-900	1240584	900	Table	1.8-8.9	15.9-78.8	1.6	3.5	9.4	19.9	1/4	10	3/8
B	2F189-PX-600	1240744	600		1.6-14	14.1-124	1.6	3.5	9.4	19.9	1/4	10	3/8
B	2F189-PX-400	1240904	400		1.6-15	14.1-138	1.6	3.5	9.4	19.9	1/4	10	3/8

SH range - Angle head - Shut off

2.5 to 200 Nm (22.1 to 1770 in.lb) - 80 to 1100 rpm

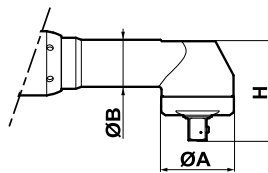


Option:

Reaction bar for SH850/1200/2000



FAS3000 (optional): PLC External control
OK / NOK reporting Batch count



- **PRODUCTIVITY**
 - High speed with joint stiffness capability
- **QUALITY**
 - High accuracy with immediate shut off
 - Improve your process quality with FAS3000
- **ERGONOMY**
 - Low reaction force on hard joint
- **DURABILITY**
 - Low frequency maintenance
 - Quick service time



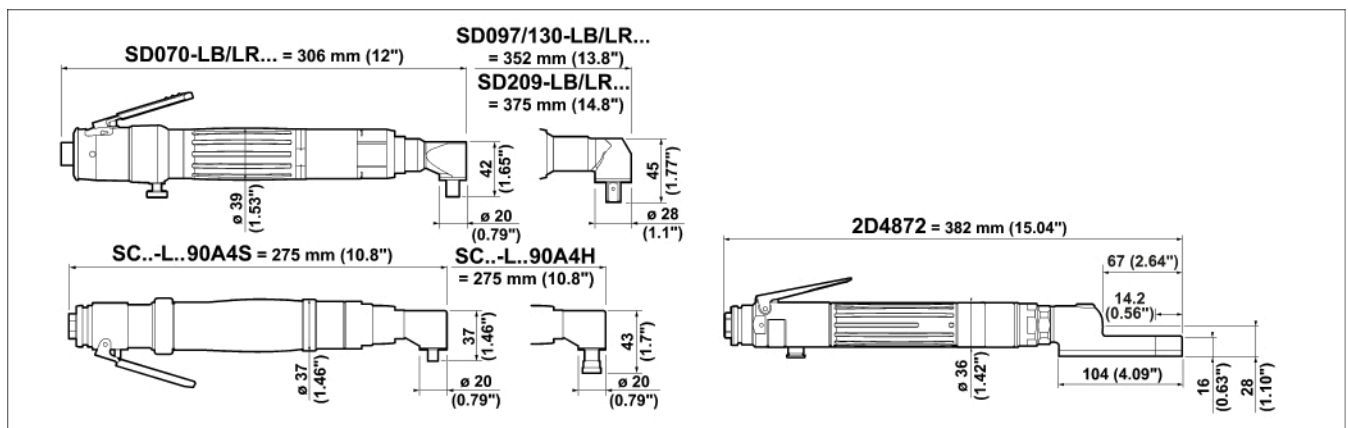
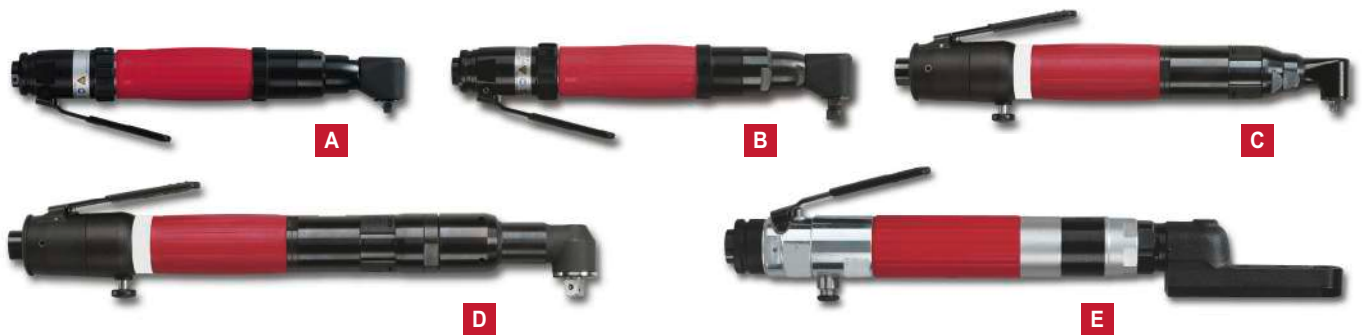
MODEL	ANGLE HEAD DIMENSIONS					
	ØA		ØB		H	
	mm	in.	mm	in.	mm	in.
SH70	20	0.79	20	0.79	36.6	1.44
SH150	22	0.87	21	0.83	35.2	1.38
SH200	27	1.06	27	1.06	45.5	1.79
SH280	27	1.06	24	0.94	41.5	1.63
SH420	40	1.57	29	1.10	56.5	2.20
SH500	40	1.57	29	1.10	56.5	2.20
SH700	40	1.57	29	1.10	56.5	2.20
SH850	51	2.00	33	1.30	69.5	2.70
SH1200	51	2.00	33	1.30	69.5	2.70
SH2000	51	2.00	33	1.30	69.5	2.70

Accessories: see page 90

PIC REF	MODEL	PART NUMBER	BOLT SIZE	FREE SPEED	SQUARE DRIVE	TORQUE RANGE		LENGTH		WEIGHT		AIR FLOW	AIR INLET	HOSE INT. Ø		
				rpm	in	Nm	in.lb	mm	in.	kg	lb.	l/s	cfm	in.	mm	in.
A	SH70-LR1100-S90-A4S	205 147 628 4	M5	1100	1/4	2.5-7	22.1-61.9	334	13.1	1.3	2.9	8	17	1/4	8	5/16
B	SH150-LR580-S90-A10S	205 147 629 4	M6	560	3/8	7-15	61.9-44.2	349	13.7	1.4	3.1	10	21	1/4	10	3/8
B	SH200-LR550-S90-A10S	205 147 630 4	M6	530	3/8	10-19	88.5-168	355	14.0	1.4	3.1	10	21	1/4	10	3/8
B	SH280-LR350-S90-A10S	205 147 631 4	M8	340	3/8	14-28	124-248	350	13.8	1.4	3.1	10	21	1/4	10	3/8
B	SH280-LR80-S90-A10S	205 147 632 4	M8	80	3/8	14-28	124-248	350	13.8	1.4	3.1	10	21	1/4	10	3/8
C	SH420-LR190-S90-A13S	205 147 800 4	M10	400	3/8	20-42	177-372	453	17.8	2.5	5.5	16	34	1/4	10	3/8
C	SH500-LR330-S90-A13S	205 147 473 4	M10	330	1/2	25-50	221-442	453	17.8	2.2	4.8	16	34	1/4	10	3/8
D	SH700-LR225-S90-A13S	205 147 474 4	M10-M12	225	1/2	34-70	301-619	487	19.2	2.4	5.3	16	34	1/4	10	3/8
D	SH850-LR190-S90-A13S	205 147 475 4	M12	190	1/2	40-85	354-752	530	20.8	2.8	6.1	16	34	1/4	10	3/8
E	SH1200-LR215-S90-A13S	205 147 476 4	M12-M14	215	1/2	70-120	354-1062	590	23.2	3.5	7.6	28	59	1/2	13	1/2
E	SH2000-LR100-S90-A13S	205 147 801 4	M12-M14	100	1/2	115-200	1018-1770	608	23.9	4.4	9.7	28	59	1/2	13	1/2

Angle head - Non Shut off

0.4 to 19 Nm (3.5 to 168 in.lb) - 320 to 2000 rpm

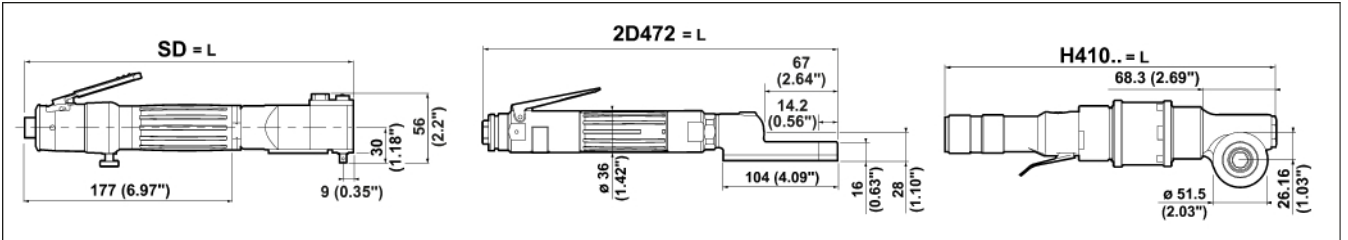


Accessories: see page 90

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT DRIVE	TORQUE RANGE		FITTED SPRING		WEIGHT		AIR FLOW		AIR INLET	HOSE INT. Ø	
					Nm	in.lb	Nm	in.lb	kg	lb.	l/s	cfm	in.	mm	in.
A	SC024-L2000-R90A4S	1459194	2000	1/4 sq	0.5-2.4	4.4-21.2	0.5-1.8	4.4-15.9	0.84	1.85	6.5	13.8	1/8	6	1/4
A	SC022-L1400-R90A4S	1459184	1400	1/4 sq	0.5-2.2	4.4-19.5	0.8-2.2	7.1-19.5	0.84	1.85	6.5	13.8	1/8	6	1/4
A	SC044-L950-R90A4S	1459174	950	1/4 sq	0.4-4.4	3.5-38.9	1.3-4.4	11.5-38.9	0.84	1.85	6.5	13.8	1/8	6	1/4
A	SC044-L500-R90A4S	1459164	500	1/4 sq	0.4-4.4	3.5-38.9	1-4.4	8.9-38-9	0.84	1.85	6.5	13.8	1/8	6	1/4
B	SC024-L2000-R90A4H	1459114	2000	1/4 hex	0.5-2.4	4.4-21.2	0.5-1.8	4.4-15.9	0.84	1.85	6.5	13.8	1/8	6	1/4
B	SC022-L1400-R90A4H	1459104	1400	1/4 hex	0.5-2.2	4.4-19.5	0.8-2.2	7.1-19.5	0.84	1.85	6.5	13.8	1/8	6	1/4
B	SC044-L950-R90A4H	1459094	950	1/4 hex	0.4-4.4	3.5-38.9	1.3-4.4	11.5-38.9	0.84	1.85	6.5	13.8	1/8	6	1/4
B	SC044-L500-R90A4H	1459084	500	1/4 hex	0.4-4.4	3.5-38.9	1-4.4	8.9-38-9	0.84	1.85	6.5	13.8	1/8	6	1/4
C	SD070-LB1100-R90-A4H	1463334	1100	1/4 hex	2.5-7	22-61.9	2.5-7	22-61.9	1.12	2.47	8.7	18.4	1/4	10	3/8
C	SD070-LB820-R90-A4H	1463324	820	1/4 hex	2.5-7	22-61.9	2.5-7	22-61.9	1.12	2.47	8.7	18.4	1/4	10	3/8
C	SD070-LB510-R90-A4H	1463314	510	1/4 hex	2.5-7	22-61.9	2.5-7	22-61.9	1.12	2.47	8.7	18.4	1/4	10	3/8
C	SD070-LB320-R90-A4H	1463304	320	1/4 hex	2.5-7	22-61.9	2.5-7	22-61.9	1.12	2.47	8.7	18.4	1/4	10	3/8
C	SD070-LR1100-R90-A4H	1463654	1100	1/4 hex	2.5-7	22-61.9	2.5-7	22-61.9	1.12	2.47	8.7	18.4	1/4	10	3/8
C	SD070-LR820-R90-A4H	1463644	820	1/4 hex	2.5-7	22-61.9	2.5-7	22-61.9	1.12	2.47	8.7	18.4	1/4	10	3/8
C	SD070-LR510-R90-A4H	1463634	510	1/4 hex	2.5-7	22-61.9	2.5-7	22-61.9	1.12	2.47	8.7	18.4	1/4	10	3/8
C	SD070-LR320-R90-A4H	1463624	320	1/4 hex	2.5-7	22-61.9	2.5-7	22-61.9	1.12	2.47	8.7	18.4	1/4	10	3/8
C	SD070-LB1100-R90-A4S	1463454	1100	1/4 sq	2.5-7	22-61.9	2.5-7	22-61.9	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD070-LB820-R90-A4S	1463444	820	1/4 sq	2.5-7	22-61.9	2.5-7	22-61.9	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD070-LB510-R90-A4S	1463434	510	1/4 sq	2.5-7	22-61.9	2.5-7	22-61.9	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD070-LB320-R90-A4S	1463424	320	1/4 sq	2.5-7	22-61.9	2.5-7	22-61.9	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD070-LR1100-R90-A4S	1463694	1100	1/4 sq	2.5-7	22-61.9	2.5-7	22-61.9	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD070-LR820-R90-A4S	1463684	820	1/4 sq	2.5-7	22-61.9	2.5-7	22-61.9	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD070-LR510-R90-A4S	1463674	510	1/4 sq	2.5-7	22-61.9	2.5-7	22-61.9	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD070-LR320-R90-A4S	1463664	320	1/4 sq	2.5-7	22-61.9	2.5-7	22-61.9	1.11	2.45	8.7	18.4	1/4	10	3/8
D	SD097-LB1080-R90-A10S	1463584	1080	3/8 sq	3-9.7	26.5-85.8	3-9.7	26.5-85.8	1.41	3.11	8.7	18.4	1/4	10	3/8
D	SD130-LB600-R90-A10S	1463574	600	3/8 sq	4.5-12	39.8-106	4.5-12	39.8-106	1.41	3.11	8.7	18.4	1/4	10	3/8
D	SD209-LB370-R90-A10S	1463564	370	3/8 sq	6-19	53.1-168	6-19	53.1-168	1.50	3.31	8.7	18.4	1/4	10	3/8
D	SD097-LR1080-R90-A10S	1463724	1080	3/8 sq	3-9.7	26.5-85.8	3-9.7	26.5-85.8	1.41	3.11	8.7	18.4	1/4	10	3/8
D	SD130-LR600-R90-A10S	1463714	600	3/8 sq	4.5-12	39.8-106	4.5-12	39.8-106	1.41	3.11	8.7	18.4	1/4	10	3/8
D	SD209-LR370-R90-A10S	1463704	370	3/8 sq	6-19	53.1-168	6-19	53.1-168	1.50	3.31	8.7	18.4	1/4	10	3/8
E	2D4872-LX-550	1388614	550	0.445" hex	3.6-6.8	31.9-60.2	3.6-6.8	31.9-60.2	1.10	2.42	8.5	18.0	1/4	10	3/8

Angle Head - Direct drive

1.2 to 105 Nm (10.6 to 929 in.lb) - 60 to 800 rpm



SD - Stall Torque (Nm) Setting using Regulator Part No. 81223

Accessories: see page 89

MODEL	REGULATOR POSITION						
	1	2	3	4	5	6	Open
Inlet Pressure - 6.3 bar							
SD130-LB500-D90-A4S	3.2	3.5	5.3	7.0	10.0	12.5	13.0
SD096-LB800-D90-A4S	2.6	2.8	4.0	5.5	7.3	9.0	9.6
Inlet Pressure - 4.0 bar							
SD130-LB500-D90-A4S	2.0	2.7	3.0	4.2	6.0	8.2	9.0
SD096-LB800-D90-A4S	1.5	1.7	2.5	3.0	4.5	5.5	6.0

H410 - Stall Torque (Nm) Setting using a Typical Regulator

MODEL	REGULATOR POSITION									
	10%	20%	30%	40%	50%	60%	70%	80%	90%	Open
Inlet Pressure - 6.3 bar										
H410-N-500	3	6	9	12	15	18	21	24	27	30
H410-N-350	5	9	14	18	23	27	32	36	41	45
H410-N-150	8	16	24	32	40	48	56	64	72	80
H410-N-90	16	32	48	63	79	95	-	-	-	-
H410-N-60	20	40	60	80	-	-	-	-	-	-
Inlet Pressure - 4.0 bar										
H410-N-500	2	4	6	8	9	11	13	15	17	19
H410-N-350	3	6	9	11	14	17	20	23	26	28
H410-N-150	5	10	15	20	25	30	35	40	45	50
H410-N-90	10	20	30	40	50	60	70	80	90	100
H410-N-60	4	30	45	60	75	90	105	-	-	-

Maximum stall torque 105Nm.
Performance will differ from the figures above depending on the regulator used.

Data obtained from a lubricated air line.
Torque figures are to be used as a guide only.

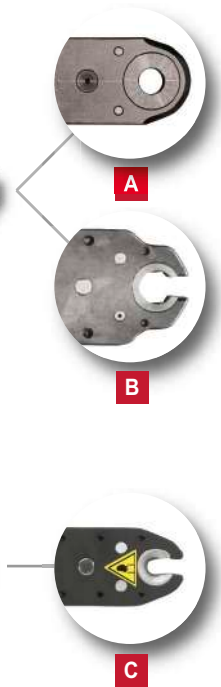
* Must never be used without regulator with a pressure higher than 4 bars
** Must never be used without regulator with a pressure higher than 2 bars

H410-N – When using direct drive screw-drivers, it is strongly advised to equip the machines with a reaction bar to compensate against potentially high torque reaction and avoid operator injury.

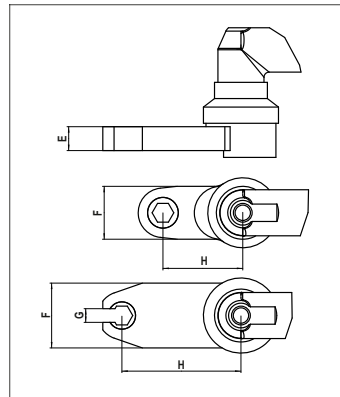
PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT DRIVE	TORQUE RANGE		LENGTH L		WEIGHT		AIR FLOW		AIR INLET	HOSE INT. Ø	
			rpm	in.	Nm	in.lb	mm	in.	kg	lb.	l/s	cfm	in.	mm	in.
A	SD130-LB500-D90-A4S	1465974	500	1/4 sq	2-13	17.7-115	326	12.8	1.08	2.38	8.7	18.4	1/4	10	3/8
A	SD096-LB800-D90-A4S	1465984	800	1/4 sq	1.5-9.6	13.3-85	326	12.8	1.08	2.38	8.7	18.4	1/4	10	1/4
B	2D472-LX-550	1388534	550	0.445 hex	1.2-12.6	10.6-111	316	12.4	1.0	2.20	8.5	18.0	1/4	10	1/4
C	H410-N-500	1302374	500	0.525 hex	3-30	26.6-265	319	12.6	1.70	3.74	17.9	37.9	3/8	12	1/2
C	H410-N-350	1302454	350	0.525 hex	4.5-45	39.8-398	319	12.6	1.70	3.74	17.9	37.9	3/8	12	1/2
C	H410-N-150	1302534	150	0.525 hex	8-80	70.8-708	358	14.1	2.00	4.41	17.9	37.9	3/8	12	1/2
C	H410-N-90*	1302614	90	0.525 hex	10-105	88.5-929	358	14.1	2.00	4.41	13.2	27.9	3/8	12	1/2
C	H410-N-60**	1302794	60	0.525 hex	10-105	88.5-929	358	14.1	2.00	4.41	13.2	27.9	3/8	12	1/2

Crowfoot and Tube nut tools - Angle head

4 to 41 Nm (35 to 363 in.lb) - 240 to 430 rpm



MODEL	ACROSS FLATS		E		F		G		H	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
SH330-LB430-CE13-CC53	13	0.75	19	0.75	32	1.26	N/A		52.8	2.07
SH410-LB400-CE17-CC68	17	0.75	19	0.75	39	1.54	N/A		67.6	2.66
SH330-LB330-OE11-CC53	11	0.71	18	0.71	40	1.57	10.4	0.41	52.9	2.08
SH330-LB330-OE11-CC75	11	0.71	18	0.71	40	1.57	10.4	0.41	75.3	2.96
SH330-LB330-OE13-CC53	13	0.71	18	0.71	40	1.57	10.4	0.41	52.9	2.08
SH330-LB330-OE13-CC75	13	0.71	18	0.71	40	1.57	10.4	0.41	75.3	2.96
SD160-LB240-S-OE17-CC92	17	0.55	14	0.55	48	1.89	12	0.47	91.5	3.60
SD160-LB240-S-OE13-CC80	13	0.47	12	0.47	38	1.49	7	0.27	79.6	3.13
SD160-LB240-S-OE12-CC80	12	0.47	12	0.47	38	1.49	7	0.27	79.6	3.13
SD160-LB240-S-OE10-CC80	10	0.47	12	0.47	38	1.49	7	0.27	79.6	3.13
SD120-LB320-S-OE08-CC80	8	0.47	12	0.47	38	1.49	17	0.27	79.6	3.13
SD120-LB320-S-OE07-CC80	7	0.47	12	0.47	38	1.49	7	0.27	79.6	3.13



- * Up to 14mm sockets possible as an option.
- * Possibility to have extension drive sockets.
- * Contact your local Desoutter sales engineer for all other requests.

Accessories: see page 90

PIC REF	MODEL	PART NUMBER	FREE SPEED	ACROSS FLATS	TORQUE RANGE		LENGTH		WEIGHT		AIR FLOW		AIR INLET	HOSE INT. Ø	
					Nm	in.lb	mm	in.	kg	lb.	l/s	cfm		in.	mm

Offset crowfoot tools - Shut Off

A	SH330-LB430-CE13-CC53	205 147 815 4	430	13	16-33	142-212	508	20.0	2.6	5.7	18	38.1	1/4	10	3/8
A	SH410-LB400-CE17-CC68	205 147 817 4	400	17	18-41	159-363	600	23.6	3.9	8.6	28	59.3	1/2	10	3/8

Offset tube nut tools - Shut Off

B	SH330-LB330-OE11-CC53	205 147 818 4	330	11	16.5-33	146-292	498.3	19.6	2.7	5.9	18	38.1	1/4	10	3/8
B	SH330-LB330-OE11-CC75	205 147 819 4	330	11	16.5-33	146-292	498.3	19.6	2.7	5.9	18	38.1	1/4	10	3/8
B	SH330-LB330-OE13-CC53	205 147 820 4	330	13	16.5-33	146-292	520.7	20.5	2.8	6.2	18	38.1	1/4	10	3/8
B	SH330-LB330-OE13-CC75	205 147 821 4	330	13	16.5-33	146-292	520.7	20.5	2.8	6.2	18	38.1	1/4	10	3/8

Offset tube nut tools - Shut Off

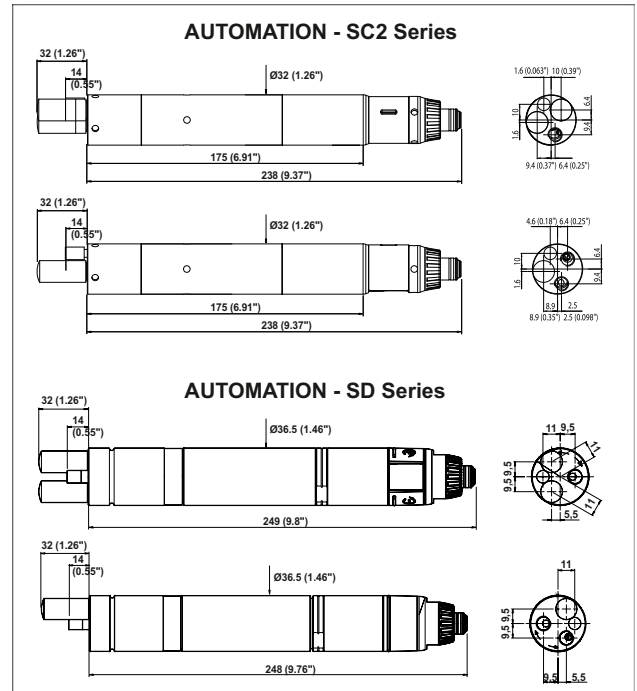
C	SD160-LB240-S-OE17-CC92	1463594	240	17	7-16	62-142	453	17.8	1.9	4.2	8.7	18.4	1/4	10	3/8
C	SD160-LB240-S-OE13-CC80	1463604	240	13	7-16	62-142	453	17.8	1.8	4.0	8.7	18.4	1/4	10	3/8
C	SD160-LB240-S-OE12-CC80	1463614	240	12	7-16	62-142	453	17.8	1.8	4.0	8.7	18.4	1/4	10	3/8
C	SD160-LB240-S-OE10-CC80	1463734	240	10	7-16	62-142	453	17.8	1.8	4.0	8.7	18.4	1/4	10	3/8
C	SD120-LB320-S-OE08-CC80	1463744	320	8	4-12	35-106	453	17.8	1.8	4.0	8.7	18.4	1/4	10	3/8
C	SD120-LB320-S-OE07-CC80	1463754	320	7	4-12	35-106	453	17.8	1.8	4.0	8.7	18.4	1/4	10	3/8
•	SD160-LB240-S-OE	1464474	240	3/8" sq.	7-16	62-142			1.5	3.3	8.7	18.4	1/4	10	3/8
•	SD120-LB320-S-OE	1464484	320	3/8" sq.	4-12	35-106			1.5	3.3	8.7	18.4	1/4	10	3/8

Torque Controlled - Shut Off



0.5 to 16 Nm (4.4 to 142 in.lb) - 320 to 3500 rpm

M5 Port provides signal while tool is running.
The signal stops when the clutch operates.



Accessories: see page 91

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT HEX	TORQUE RANGE		FITTED SPRING		WEIGHT		AIR FLOW		AIR INLET		HOSE INT. Ø	
					Nm	in.lb	Nm	in.lb	kg	lb.	l/s	cfm	in.	mm	in.	
Automation - Push start - Shut off - 1 way																
A	SC2-025-1AM2200-S4Q	205 147 426 4	2200	1/4	0.5-2.5	4.4-22	0.5-2.5	4.4-22.1	0.64	1.41	7	14.8	1/8	4	5/32	
A	SC2-035-1AM1500-S4Q	205 147 425 4	1500	1/4	0.5-3.5	4.4-30.8	1.7-3.5	15-30.9	0.64	1.41	7	14.8	1/8	4	5/32	
A	SC2-045-1AM1000-S4Q	205 147 424 4	1000	1/4	0.5-4.5	4.4-39.6	1.7-4.5	15-39.8	0.64	1.41	7	14.8	1/8	4	5/32	
A	SC2-055-1AM700-S4Q	205 147 423 4	700	1/4	0.5-5.5	4.4-48.4	3-5.5	26.5-48.6	0.64	1.41	7	14.8	1/8	4	5/32	
A	SC2-065-1AM500-S4Q	205 147 422 4	500	1/4	0.5-6.5	4.4-57.2	3-6.5	26.5-57.5	0.64	1.41	7	14.8	1/8	4	5/32	
Automation - Remote start - Shut off - 2 way																
B	SC2-025-2RM2200-S4Q	205 147 440 4	2200	1/4	0.5-2.5	4.4-22	0.5-2.5	4.4-22.1	0.64	1.41	7	14.8	1/8	4	5/32	
B	SC2-035-2RM1500-S4Q	205 147 439 4	1500	1/4	0.5-3.5	4.4-30.8	1.7-3.5	15-30.9	0.64	1.41	7	14.8	1/8	4	5/32	
B	SC2-045-2RM1000-S4Q	205 147 438 4	1000	1/4	0.5-4.5	4.4-39.6	1.7-4.5	15-39.8	0.64	1.41	7	14.8	1/8	4	5/32	
B	SC2-055-2RM700-S4Q	205 147 437 4	700	1/4	0.5-5.5	4.4-48.4	3-5.5	26.5-48.6	0.64	1.41	7	14.8	1/8	4	5/32	
B	SC2-065-2RM500-S4Q	205 147 436 4	500	1/4	0.5-6.5	4.4-57.2	3-6.5	26.5-57.5	0.64	1.41	7	14.8	1/8	4	5/32	
Automation - Push start - Shut off - 1 way																
C	SD023-1AM3500-S4Q	1464254	3500	1/4	1.0-2.3	8.8-20.4	1.0-2.3	8.8-20.4	0.92	2.03	8.7	18.4	1/8	6	1/4	
C	SD035-1AM2200-S4Q	1464244	2200	1/4	1.0-3.5	8.8-31	1.0-3.5	8.8-30.9	0.92	2.03	8.7	18.4	1/8	6	1/4	
C	SD055-1AM1470-S4Q	1464234	1470	1/4	2.0-5.5	18-48.7	2.0-5.5	18-48.7	0.92	2.03	8.7	18.4	1/8	6	1/4	
C	SD075-1AM1100-S4Q	1464224	1100	1/4	2.5-7.5	22-66.4	2.5-7.5	22-66.4	0.92	2.03	8.7	18.4	1/8	6	1/4	
C	SD100-1AM820-S4Q	1464214	820	1/4	3.5-10	31-88.5	3.5-10	31-88.5	0.92	2.03	8.7	18.4	1/8	6	1/4	
C	SD140-1AM510-S4Q	1464204	510	1/4	3.5-14	31-124	3.5-10	31-88.5	0.92	2.03	8.7	18.4	1/8	6	1/4	
C	SD160-1AM320-S4Q	1464194	320	1/4	3.5-16	31-142	3.5-10	31-88.5	0.92	2.03	8.7	18.4	1/8	6	1/4	
Automation - Remote start - Shut off - 2 way																
D	SD023-2RM3500-S4Q	1464324	3500	1/4	1.0-2.3	8.8-20.4	1.0-2.3	8.8-20.4	0.92	2.03	8.7	18.4	1/8	6	1/4	
D	SD035-2RM2200-S4Q	1464314	2200	1/4	1.0-3.5	8.8-31	1.0-3.5	8.8-30.9	0.92	2.03	8.7	18.4	1/8	6	1/4	
D	SD055-2RM1470-S4Q	1464304	1470	1/4	2.0-5.5	18-48.7	2.0-5.5	18-48.7	0.92	2.03	8.7	18.4	1/8	6	1/4	
D	SD075-2RM1100-S4Q	1464294	1100	1/4	2.5-7.5	22-66.4	2.5-7.5	22-66.4	0.92	2.03	8.7	18.4	1/8	6	1/4	
D	SD100-2RM820-S4Q	1464284	820	1/4	3.5-10	31-88.5	3.5-10	31-88.5	0.92	2.03	8.7	18.4	1/8	6	1/4	
D	SD140-2RM510-S4Q	1464274	510	1/4	3.5-14	31-124	3.5-10	31-88.5	0.92	2.03	8.7	18.4	1/8	6	1/4	
D	SD160-2RM320-S4Q	1464264	320	1/4	3.5-16	31-142	3.5-10	31-88.5	0.92	2.03	8.7	18.4	1/8	6	1/4	

Accessories

STRAIGHT - PUSH START & LEVER START

ACCESSORIES INCLUDED

ITEM	2A89	SB	SC2	SD
• Suspension bail(s)	280903	443703	205 049 537 3	467003
• Suspension bail internal			205 051 289 3	
• Exhaust hose	280913	443723	205 049 584 3	467073
• Clutch adjustment keys	292583	446583	205 050 785 3	29932
1 Short lever (lever start model)			205 052 020 3	
2 Rings identification			205 049 590 3	

OPTIONAL ACCESSORIES

ITEM	2A89	SB	SC2	SD
3 Side handle assembly			205 052 175 3	
• Double-ended bit holder			205 052 883 3	465523

Balancers & Tool Holster

4 Spring suspension balancer	52542	50522	50522	52862
5 Hose reel balancer	52552	50552	50552	50562
6 Reaction free self-lock balancer			54422	54432
7 Tool holster DTH-42	107892	107892	107892	107892

Bench Stands

8 D53-20 Stand, (see pages 114-115)		388163	388163	388163
• Tool clamp		615 396 616 0	615 396 616 0	615 396 616 0
8 D53-20X Stand Extended reach, (see pages 114-115)		388173	388173	388173
• Tool clamp		615 396 616 0	615 396 616 0	615 396 616 0
9 D53-20S Swivel stand, (see pages 114-115)		615 804 572 0	615 804 572 0	615 804 572 0
• Tool clamp		615 396 616 0	615 396 616 0	615 396 616 0
10 D57 Balancing arm, (see pages 116-117)		408903	408903	408903
• Tool clamp		615 396 614 0	615 396 614 0	615 396 614 0
10 D57X Balancing arm, (see pages 116-117)		408913	408913	408913
• Tool clamp		615 396 614 0	615 396 614 0	615 396 614 0
11 D58 Balancing arm, (see pages 116-117)		408923	408923	408923
• Tool clamp		615 396 614 0	615 396 614 0	615 396 614 0
12 Bench mounted swinging arm for use with balancer		66542	66542	66542
13 TRA12 Telescopic reaction arm		615 396 532 0	615 396 532 0	
13 TRA25 Telescopic reaction arm				615 396 533 0

Vacuum Pick Up - Order Pick Up kit, Finder Sleeve & Vacuum Source

14 Vacuum pick up kit (spring only for 2A89)	280443	108892		108892
15 Finder sleeve blank - plastic		464093		464093
• Finder sleeve blank - steel	88992	464103		464103
16 Vacuum source for use with DU balancer (lever start model)				51482
17 Vacuum source AV201 for use with filter/regulator unit				112063

Miscellaneous

18 Offset exhaust				205 047 623 3
• Clutch case 7/8" LH thread 320-1470 rpm				205 047 478 3
• Clutch case 7/8" LH thread 2200-3500 rpm				205 047 479 3
• Clutch case without thrust bump, M20x1.0LH thread 320-1470 rpm				465463
• Clutch case without thrust bump, M20x1.0LH thread 32200-3500 rpm				465443

PISTOL GRIP & HLT

ACCESSORIES INCLUDED

	SCBP	SBP	SCP SCPT	SDP SDT
• Suspension bail(s)	307683	307683	307683	473153
• Side handle (320 & 1470 rpm)				467033
• Clutch adjustment keys (320 - 1470 rpm)	205 047 988 3	446583	29932	29932
• Clutch adjustment keys (2200 - 3500 rpm)				467293

OPTIONAL ACCESSORIES

	SBP SCBP	SCP SCPT	SDP SDT
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Balancers & Holster

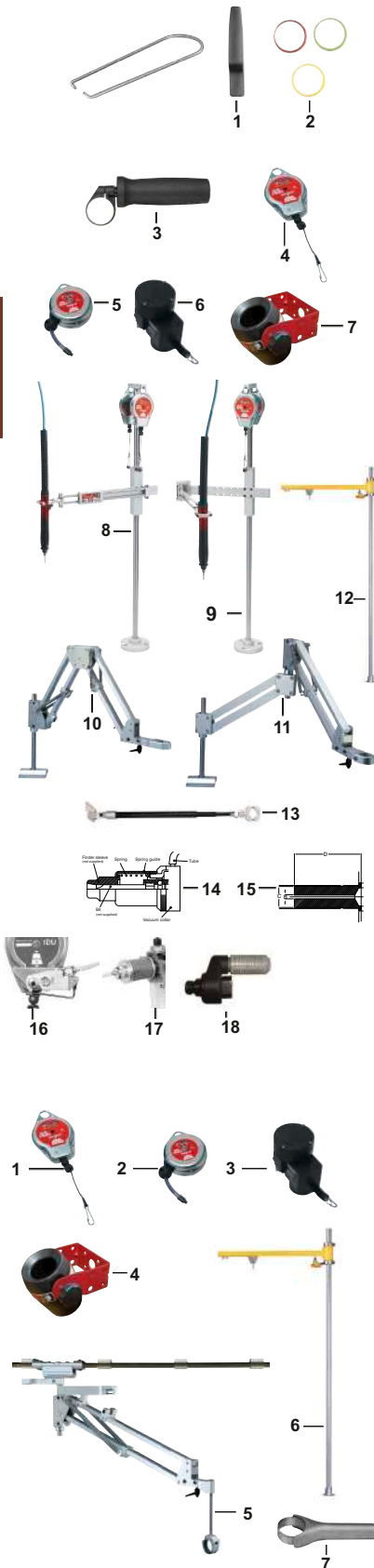
1 Spring suspension balancer	52862	52862	52862
2 Hose reel balancer	50552	50552	50562
• Hose reel balancer conversion kit	107403	107403	115193
3 Reaction free self-lock balancer	54422	54422	54432
4 Tool holster DTH-42	107892	107892	107892

Bench Stands

5 D59 Pantographic arm (see pages 116-117)	408933	408933	408933
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Miscellaneous

6 Bench mounted swing arm for use with balancer	66542	66542	66542
7 Side handle	70442	70442	467033



DIRECT DRIVE

ACCESSORIES INCLUDED

	SDP	SD	H410
• Suspension bail(s)	473153		467003
• Side handle	467033		
• Exhaust hose		467073	

OPTIONAL ACCESSORIES

ITEM	SDP	SD	H410
• Air flow regulator	81223	81223	
Balancers & Holster			
1 Spring suspension balancer	52862	50532	50542
2 Hose reel balancer	50562	50562	
3 Reaction free self-lock balancer	54432	54432	54442
4 Tool holster DTH-42	107892	107892	

Suspension Shackle

5 Suspension shackle		70082	615 571 050 0
• Swivel suspension shackle			615 396 229 0

Bench Stand

6 D59 Pantographic arm (see pages 116-117)	408933		
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Miscellaneous

7 Side handle	467033		
• Offset exhaust		205 047 623 3	
8 Bench mounted swing arm	66542	66542	66542
• Square drive adaptor 3/8" Square drive, 48mm (1.89") long			14422
• Square drive adaptor 1/2" Square drive, 46mm (1.81") long			14442
• Square drive adaptor 1/2" Square drive, 76mm (2.99") long			14482
• Exhaust collector			72163



AUTO REVERSE

ACCESSORIES INCLUDED

	SD	2F189-PX
• Suspension bail(s)	467003	
• Side handle	467033	
• Clutch adjustment keys	29932	29932

OPTIONAL ACCESSORIES

ITEM	SD	2F189-PX
Placement of Threaded Inserts		
1 M3 x 0.5 Nose kit	76552	76552
1 M4 x 0.7 Nose kit	76562	76562
1 M5 x 0.8 Nose kit	76572	76572
1 M6 x 1.0 Nose kit	76582	76582
1 M8 x 1.25 Nose kit	76592	76592

Blind Hole Tapping/ Cleaning - 3 parts Required

• Bit adaptor*	465513	
• Bit adaptor		370683
2 Thread adaptor	96743	96743
3 Chuck capacity 6.5mm (1/4")	28942	28942

Balancers & Tool Holster

4 Spring suspension balancer	50532	50532
5 Reaction free self-lock balancer	54432	54452
6 Tool holster DTH-42	107892	107892

Bench Stands

7 D57 Balancing arm, (see pages 116-117)	408903	408903
• Tool clamp	615 396 614 0	615 396 614 0
7 D57X Balancing arm, (see pages 116-117)	408913	408913
• Tool clamp	615 396 614 0	615 396 614 0
8 D58 Balancing arm, (see pages 116-117)	408923	408923
• Tool clamp	615 396 614 0	615 396 614 0
9 Bench mounted swinging arm for use with balancer	66542	66542
10 TRA25 Telescopic reaction arm	615 396 533 0	

* To order more clutch cover PN 465453 + washer PN 467113



Accessories

ANGLE HEAD

ACCESSORIES INCLUDED

	2D4872	SC	SD	SH
• Suspension bail(s)		39433/280893	467003	
• Exhaust hose		396553	467073	
• Adjustment keys		29932	29932	205 050 785 3
• Air hose nipple				205 051 239 3

OPTIONAL ACCESSORIES

ITEM	2D4872	SC	SD	SH
• Exhaust hose for SH70/150/200/280/420/500/700/850				459813
• Exhaust hose for SH1200/2000				202 050 181 3

Balancers & Holster

1 Spring suspension balancer	50532	52862	50532	
1 Spring suspension balancer for SH70/150/200/280				52862
2 Spring suspension balancer for SH420 to SH2000				50052
3 Hose reel balancer	50562	50552	50562	
3 Hose reel balancer for SH70/150/200/280				50562
4 Reaction free self-lock balancer	54432	54422	54432	
4 Reaction free self-lock balancer for SH70/150/200/280				54432

Suspension Shackle

• Suspension shackle		95842	70082	
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Suspension bails

5 Suspension bail for SH70/150/200/280				205 051 632 3
5 Suspension bail for SH420/500/700/850				205 051 113 3
5 Suspension bail for SH1200/2000				615 396 562 0

Swiveling bails

6 Swiveling bail for SH420/500/750/850				205 051 115 3
6 Swiveling bail for SH1200/2000				205 051 232 3

Bench Stands

7 D57 Balancing arm, (see pages 116-117)	408903	408903	408903	
• Tool clamp	615 396 614 0	615 396 614 0	615 396 614 0	
7 D57X Balancing arm, (see pages 116-117)	408913	408913	408913	
• Tool clamp	615 396 614 0	615 396 614 0	615 396 614 0	
8 D58 Balancing arm, (see pages 116-117)	408923	408923	408923	
• Tool clamp	615 396 614 0	615 396 614 0	615 396 614 0	

Miscellaneous

• Offset exhaust			205 047 623 3	
• Bench mounted swing arm			66542	66542
9 Protective cover for SH70/150/200/280	66542	66542	66542	205 011 426 2
9 Protective cover for SH420/500				205 050 182 3
9 Protective cover for SH700/850				205 050 235 3
9 Protective cover for SH1200/2000				205 050 252 3
10 Complete reaction bar kit for SH850/1200/2000				205 051 121 3
11 Reporting kit for SH70 (for connexion with FAS)				205 011 424 2
11 Reporting kit for SH150/200/280 (for connexion with FAS)				205 011 425 2
11 Reporting kit for SH420/500/700/850 (for connexion with FAS)				205 050 175 3
11 Reporting kit for SH1200/2000 (for connexion with FAS)				205 050 176 3

OPEN ENDED WRENCHES

ACCESSORIES INCLUDED

	SD
• Suspension bail(s)	467003
• Exhaust hose	467073
• Clutch adjustment keys	29932

OPTIONAL ACCESSORIES

ITEM	SD
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Balancers

1 Spring suspension balancer	50542
2 Hose reel balancer	50562
3 Reaction free self-lock balancer	54442

Suspension Shackle

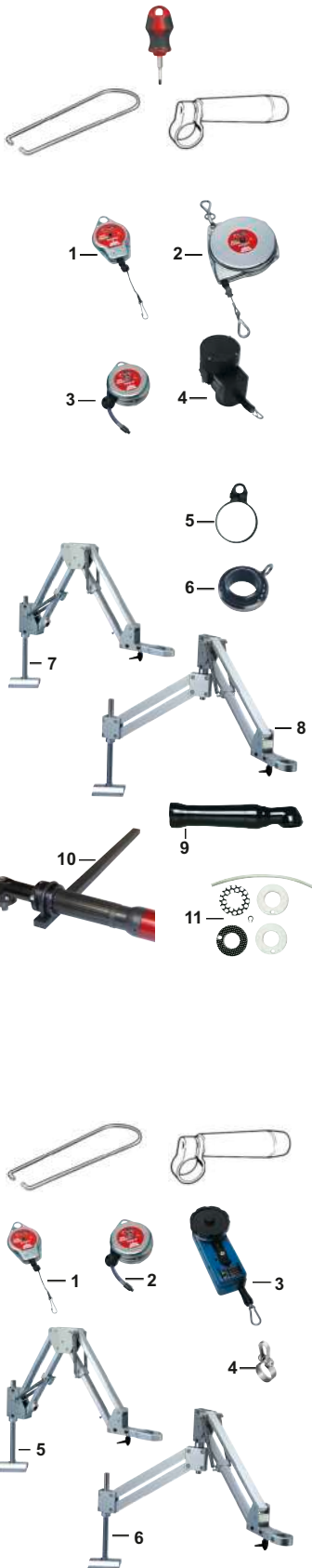
4 Suspension shackle	70082
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Bench Stands

5 D57 Balancing arm, (see pages 116-117)	408903
• Tool clamp	615 396 614 0
5 D57X Balancing arm, (see pages 116-117)	408913
• Tool clamp	615 396 614 0
6 D58 Balancing arm, (see pages 116-117)	408923
• Tool clamp	615 396 614 0

Miscellaneous

• Offset exhaust	205 047 623 3
• Bench mounted swing arm	66542



TORQUE CONTROLLED

ACCESSORIES INCLUDED

ITEM	SC2 / SD
1 Muffler	205 045 792 3
2 Straight fitting	205 044 497 3

OPTIONAL ACCESSORIES

ITEM	PART NO.
• Spring Loaded Shats and Bearings Support (including 3, 4, 5)	
3 Bit Adaptor	103782
4 Spring Loaded Shaft 25mm (1")	108342
5 Shaft Support and Nose Mount	108412
6 Nose Mounts	205 052 876 3
7 Flange M20	205 052 875 3
• Offset Head & Spring Loaded shaft (Including 8, 9)	
8 Offset Head , offset 30mm (1.18")	384993
9 Spring Loaded Shaft 25mm (1") stroke	108342
10 3/8" Square to 1/4" Hex Power Adaptor	108322



SFP

NJ Screw Dispenser

- 3 Base models, NJ12, NJ23 and NJ45
- Modular rail system to permit screws of 1.4 to 5.0mm diameter to be fed
- Rail can be changed and the unit set up within 5 minutes
- Simple brush and rail combination to prevent jamming
- 30% faster feed rate due to a number of screws being fed into the rail in a single cycle
- Dispenser has built in height adjustment to allow the screw to be presented to the operator at the correct angle

Capacity

NJ12 Thread Diameter 1.4-1.7mm, Screw Length<10mm
 NJ23 Thread Diameter 1.8-3.0mm, Screw Length<18mm
 NJ45 Thread Diameter 3.1-5.0mm, Screw Length<18mm

Dimensions 130x215x136mm **Weight** 3.2kg
Max Feed Rate 2 screws/second **Bowl Capacity** Approximately 1200pcs (M3)
Power Supply 230/120V **Rated Input** 12V, 500mA

A holding plate will be required for rounded head or countersunk screws to prevent them from climbing on to each other in the rail

How To Order

Base model + 1 Rail assembly & holding plate (if required) + Plug 615 937 002 0



MAX SCREW SIZE (mm)	SCREW DISPENSER		RAIL ASSEMBLY STANDARD		HOLDING PLATE SHORT/COUNTERSUNK SCREWS	
	MODEL	PART NO.	MODEL	PART NO.	MODEL	PART NO.
1.4	NJ12	2050111772	R14	2050111802	-	-
1.7	NJ12	2050111772	R17	2050111812	-	-
2	NJ23	2050111782	R20	2050111822	R20-23	2050111892
2.3	NJ23	2050111782	R23	2050111832	R20-23	2050111892
2.6	NJ23	2050111782	R26	2050111842	R26-30	2050111902
3	NJ23	2050111782	R30	2050111852	R26-30	2050111902
3.5	NJ45	2050111792	R35	2050111862	R35-40	2050111912
4	NJ45	2050111792	R40	2050111872	R35-40	2050111912
5	NJ45	2050111792	R50	2050111882	R50	2050111922