



Fastening Tools



Lou Zampini & Associates
2 Douglas Pike, Rt. 7
Smithfield, RI 02917
1 800 353 4676
FAX 1 401 679 0165

Safety Instructions and Contents

Specific Safety Instructions for Power Tool Groups

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



Impulse Wrenches

- Never use hand sockets. Use only impact sockets in good condition. Sockets in poor condition reduce impact power and could also shatter, resulting in personal injury.
- When using a universal joint, never operate the tool off the work. It may run too fast and cause the joint to be thrown from the tool.
- Always use the simplest hook up possible. Long springy extension bars and adapters absorb impact power and could break loose resulting in personal injury. Instead, use deep sockets wherever possible.



Angle Wrenches

- Never use hand sockets. Use only power drive sockets.
- To reduce the risk of injury, always support the handle securely in the direction opposite of the spindle rotation to minimize torque reaction.



Screwdrivers

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



Accessories

- Always use accessories of correct size and design for the tool. Tool and accessories must not be modified in any way.
- Never use a tool without the proper accessory retainer.

Contents



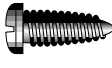


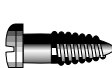


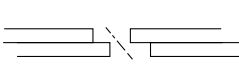
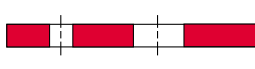

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Tool Selection

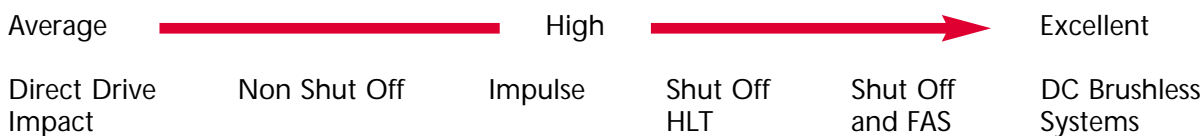
Criteria

- 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/Direct Drive
Thread Rolling/Forming		Shut Off/HLT/Impulse
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
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

Joint Integrity



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

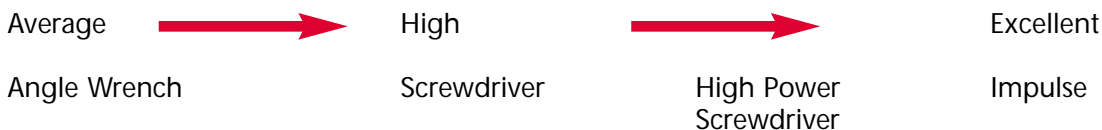
- Nm x 141.6 = oz in
- Nm x 8.851 = in lb
- Nm x 0.73756 = ft lb
- Nm x 0.102 = kgf m/kpm
- Nm x 10.2 = kgf cm

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%

Tool Orientation and Operator Preference



Productivity



Access



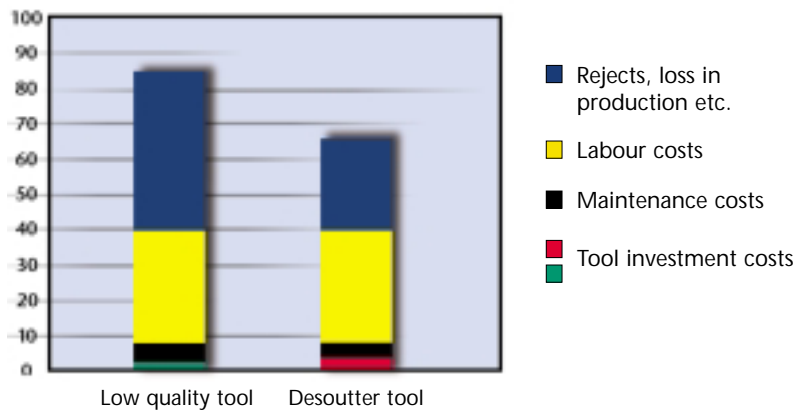
Ergonomics

The Benefits of Desoutter Ergosense to You

- Greater operator comfort
- Reduced operator fatigue
- Reduced handling times
- Reduced sickness
- Lower recruitment costs
- Lower employee liability costs
- Greater Productivity
- Improved Quality
- Improved Profitability



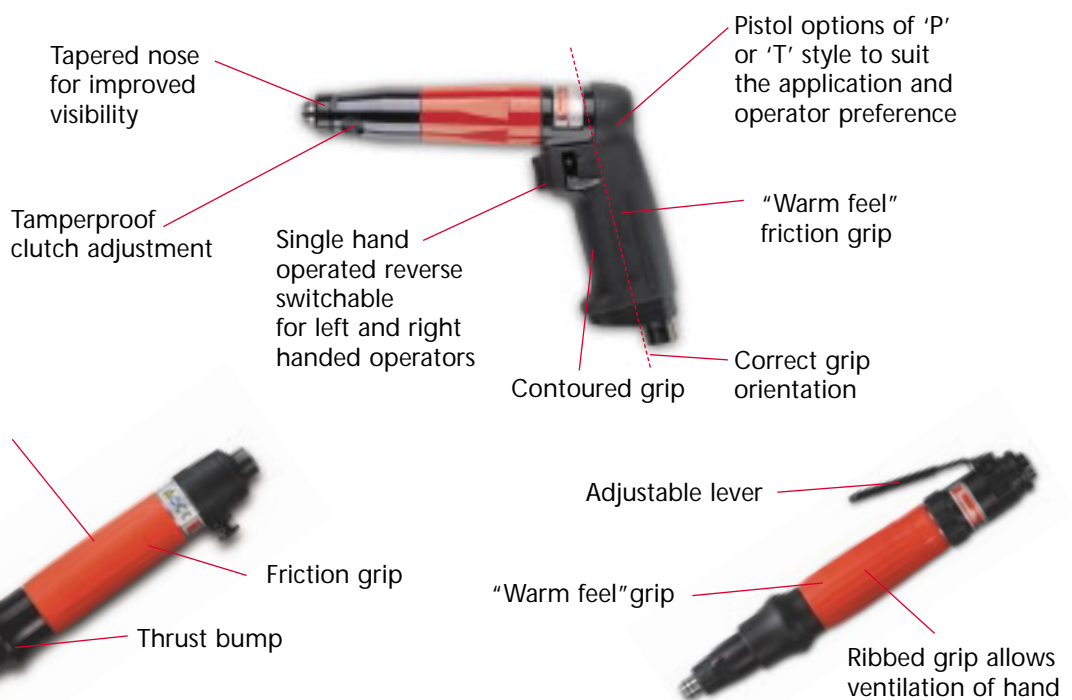
Cost Benefits of Desoutter Tools



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

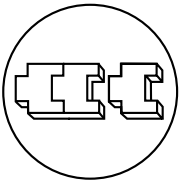
Desoutter Ergosense in Practice

- Lightweight
- Short Length
- Light Start Load



Modularity

The Desoutter Modular SB, SC and SD Screwdriver ranges have been developed to provide our customers with flexibility whilst minimising the risk of tooling investment.



Modularity = Flexibility = Productivity = Cost Reduction = Profit

Tool Selection

More options through modules to ensure the right tool is used for the application or the operator preference is met to increase productivity.

Servicing

By replacing complete modules, tools can be returned to

production with a minimum of down time. Modules can then be serviced using service kits reducing the overall repair, tool and spare part stock costs.

Changes in Production

A change in the product being assembled or the work flow may require new tools. A modular

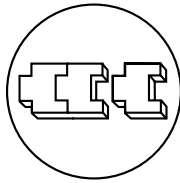
design enables existing tools to be modified quickly and at a minimum cost.

Upgrades

New developments can be incorporated on existing tools by replacing the relevant module.



Modularity



SB Series

CLUTCH COVER
TREADED NOSE
(M20X1.0LH) WITH
THRUST BUMP
443833



CLUTCH COVER
443623



CLUTCH COVER
TREADED NOSE
(M20X1.0LH)
WITHOUT
THRUST BUMP
443843



S4Q
CLUTCH 1/4"
STANDARD
443133



S4QD
CLUTCH 1/4"
DOUBLE
ENDED
443143



1600
GEAR BOX
443123



1100
GEAR BOX
443113



750
GEAR BOX
443103



500
GEAR BOX
443873



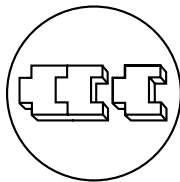
SB
MOTOR CASE
443093



AB
CONTROL TOP
BUTTON REVERSE
443083



AR
CONTROL TOP
ROTARY REVERSE
443073



SBP Series

1600/2300-S4Q
CLUTCH 1/4"
443133



550/1100-S4Q
CLUTCH 1/4"
462113



1600/2300-R4Q
CLUTCH 1/4"
462123



550/1100-R4Q
CLUTCH 1/4"
462133



2300
GEAR BOX
443123



1600
GEAR BOX
443113



1100
GEAR BOX
443103



550
GEAR BOX
462143



GEAR CASE
462763



PISTOL GRIP ASSEMBLY
462173

TRIGGER ASSEMBLY
462183

AIR INLET ASSEMBLY
462193

VALVE ASSEMBLY
462163

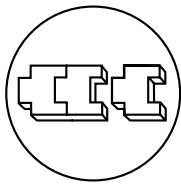
MOTOR ASSEMBLY
462153



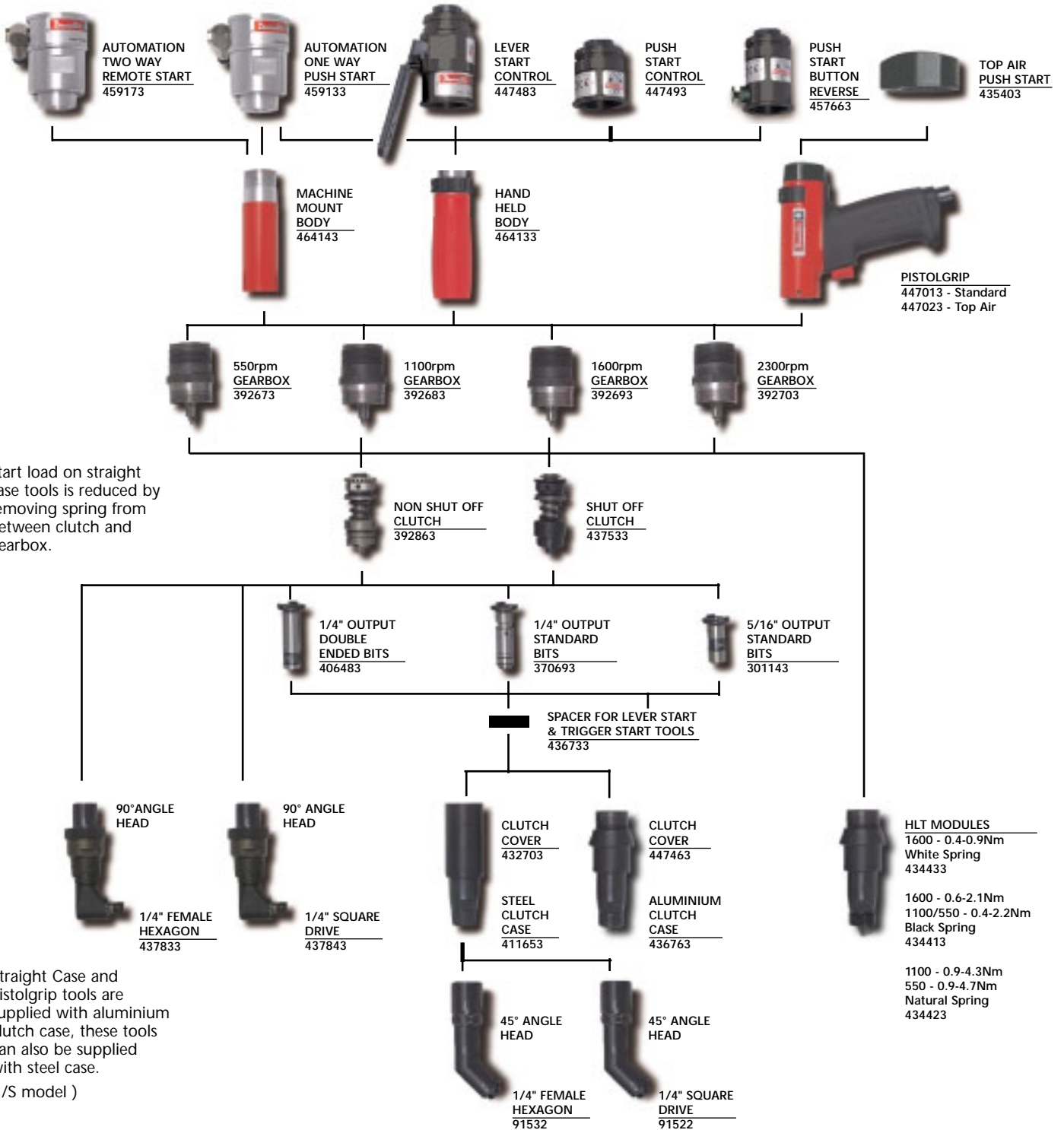
CLUTCH COVER
TREADED NOSE
(M20X1.0LH)
443843



Modularity



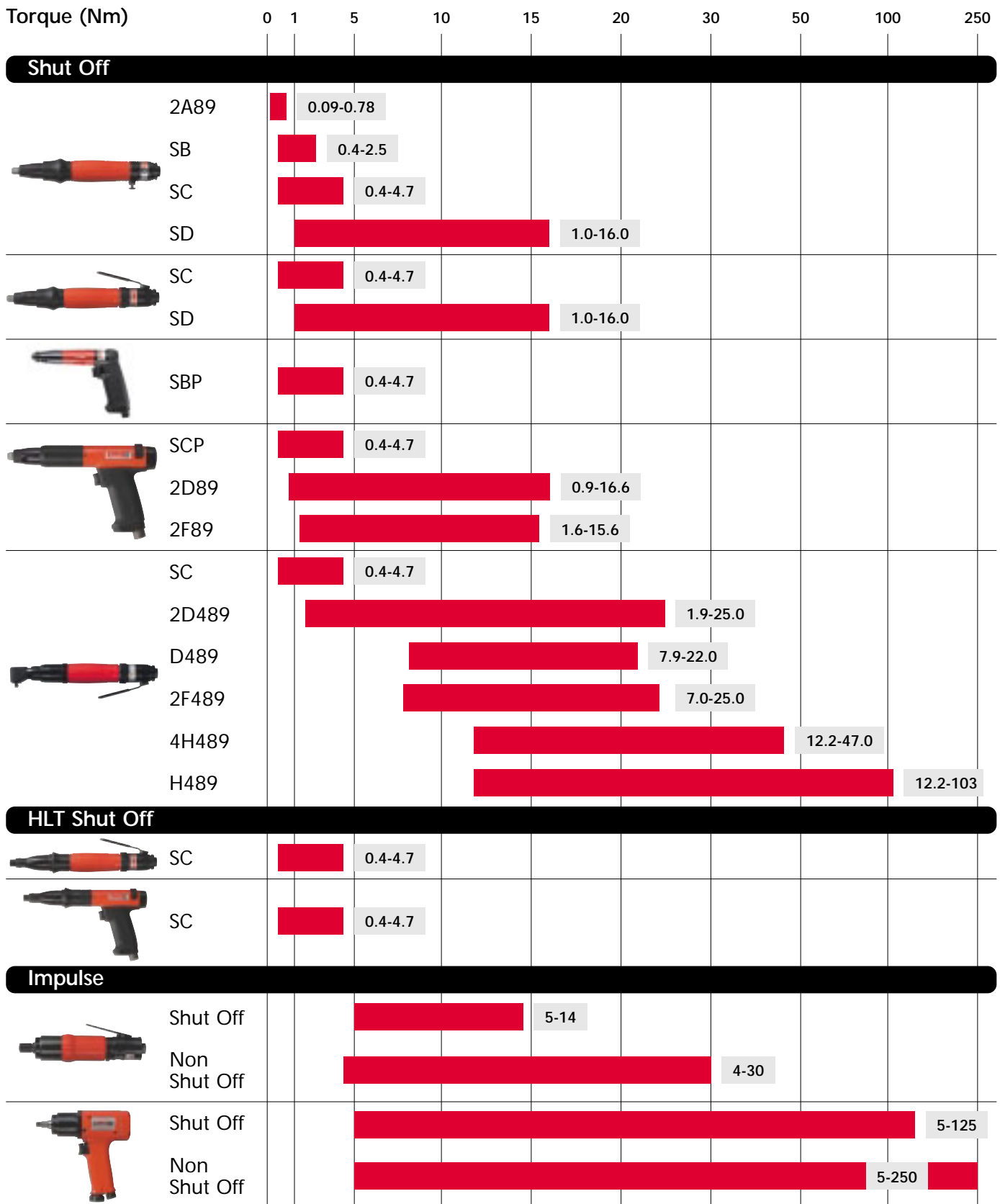
SC Series












Start load on straight case tools is reduced by removing spring from between clutch and gearbox.

Straight Case and Pistolgrip tools are supplied with aluminium clutch case, these tools can also be supplied with steel case.
(/S model)

Tool Types and Torque Ranges



Tool Types and Torque Ranges

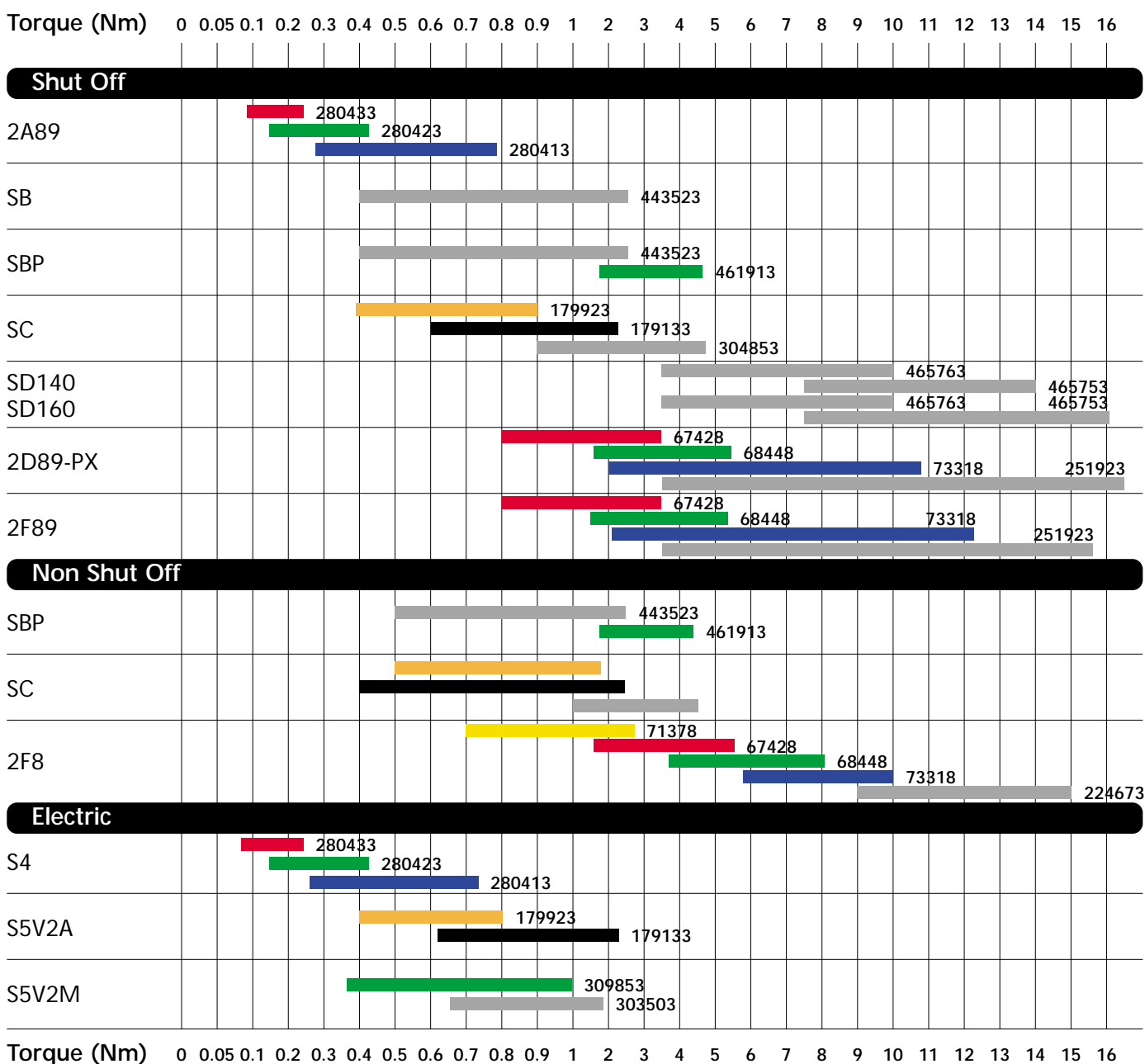
Torque (Nm)		0	1	5	10	15	20	30	50	100	250	
Non Shut Off												
	SC	0.4-4.4										
	SD	1.0-10.0										
	SC	0.4-4.4										
	SD	1.0-10.0										
	SBP	0.4-4.4										
	SCP	0.4-4.4										
	2D8	0.6-10.0										
	2F8	0.6-15.0										
	SC	0.4-4.4										
	2D8	0.6-6.8										
	2D48	7.7-14.4										
Direct Drive												
	2D2	0.3-14.0										
	2F2	1.2-18.0										
	2D472	1.2-12.6										
	2D4201	1.5-15.4										
	H410	3-105										
Electric Screwdrivers												
	SME	0.5-3.9										
	S4	0.08-0.72										
	S5	0.4-2.3										
	S5	0.36-1.9										

Screwdriver Torque Ranges

Torque output of the Desoutter 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.



Product Range



Screwdrivers

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Angle Head Tools

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Impulse Tools

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Screwfeeders and Torque Motors

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Impact Wrenches Chicago Pneumatic

For full details of the Chicago Pneumatic range of Impact Wrenches ask your local sales contact for details.

Screwdrivers – Shut Off – Push Start



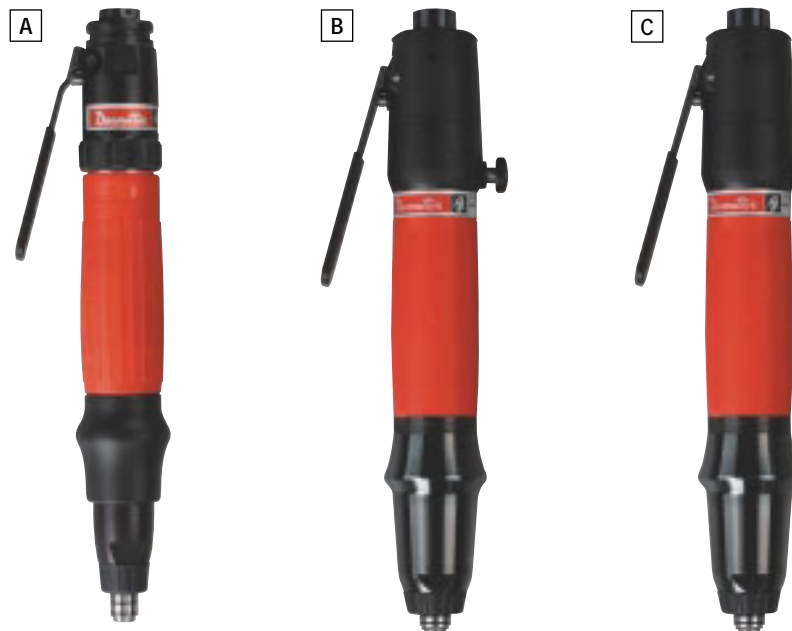
PICTURE REF	TOOL TYPE	PART NUMBER	FREE SPEED	OUTPUT ⁽¹⁾	TORQUE RANGE	FITTED SPRING	LENGTH	WEIGHT	AIR FLOW	AIR HOSE BORE	AIR INLET ⁽²⁾	SOUND LEVEL	VIBRATION
			r/min	hex	Nm	Nm	mm	kg	l/s	mm	BSP	dB(A)	ms ⁻²
A	2A89-A-1300	1225434	1300	3mm	0.09-0.56	0.15-0.43	178	0.21	2.2	3	M5	64	<2.5
A	2A89-A-700	1225514	700	3mm	0.09-0.75	0.15-0.43	178	0.21	2.2	3	M5	64	<2.5
A	2A89-A-400	1225694	400	3mm	0.09-0.78	0.15-0.43	178	0.21	2.2	3	M5	64	<2.5
A	2A89-A-1300	1223154	1300	1/4"	0.09-0.56	0.15-0.43	178	0.21	2.2	3	M5	64	<2.5
A	2A89-A-700	1223234	700	1/4"	0.09-0.75	0.15-0.43	178	0.21	2.2	3	M5	64	<2.5
A	2A89-A-400	1223314	400	1/4"	0.09-0.78	0.15-0.43	178	0.21	2.2	3	M5	64	<2.5
B	SB011-AB1600-S4Q	1460644	1600	1/4"	0.4-1.1	0.4-1.1	197	0.42	4.1	5	1/8"	69	<2.5
B	SB015-AB1100-S4Q	1460634	1100	1/4"	0.4-1.5	0.4-1.5	197	0.42	4.1	5	1/8"	69	<2.5
B	SB025-AB750-S4Q	1460624	750	1/4"	0.4-2.5	0.4-2.5	197	0.42	4.1	5	1/8"	69	<2.5
B	SB025-AB500-S4Q	1460684	500	1/4"	0.4-2.5	0.4-2.5	197	0.42	4.1	5	1/8"	69	<2.5
C	SB011-AR1600-S4Q	1460524	1600	1/4"	0.4-1.1	0.4-1.1	197	0.42	4.1	5	1/8"	69	<2.5
C	SB015-AR1100-S4Q	1460514	1100	1/4"	0.4-1.5	0.4-1.5	197	0.42	4.1	5	1/8"	69	<2.5
C	SB025-AR750-S4Q	1460504	750	1/4"	0.4-2.5	0.4-2.5	197	0.42	4.1	5	1/8"	69	<2.5
C	SB025-AR500-S4Q	1460564	500	1/4"	0.4-2.5	0.4-2.5	197	0.42	4.1	5	1/8"	69	<2.5
D	SC021-AB2300-S4Q	1461854	2300	1/4"	0.4-2.1	0.4-0.9	250	0.61	6.5	6	1/8"	75	<2.5
D	SC021-AB1600-S4Q	1461864	1600	1/4"	0.4-2.1	0.6-2.1	250	0.61	6.5	6	1/8"	75	<2.5
D	SC043-AB1100-S4Q	1461874	1100	1/4"	0.4-4.3	0.9-4.3	250	0.61	6.5	6	1/8"	75	<2.5
D	SC047-AB550-S4Q	1461884	550	1/4"	0.4-4.7	0.9-4.7	250	0.61	6.5	6	1/8"	75	<2.5
E	SC021-A2300-S4Q	1456574	2300	1/4"	0.4-2.1	0.4-0.9	250	0.61	6.5	6	1/8"	73	<2.5
E	SC021-A1600-S4Q	1456584	1600	1/4"	0.4-2.1	0.6-2.1	250	0.61	6.5	6	1/8"	73	<2.5
E	SC043-A1100-S4Q	1456594	1100	1/4"	0.4-4.3	0.9-4.3	250	0.61	6.5	6	1/8"	73	<2.5
E	SC047-A550-S4Q	1456604	550	1/4"	0.4-4.7	0.9-4.7	250	0.61	6.5	6	1/8"	73	<2.5
F	SD023-AB3500-S4Q	1462834	3500	1/4"	1.0-2.3	1.0-2.3	227	0.73	8.7	10	1/4"	73	<2.5
F	SD035-AB2200-S4Q	1462824	2200	1/4"	1.0-3.5	1.0-3.5	227	0.73	8.7	10	1/4"	73	<2.5
F	SD055-AB1470-S4Q	1462814	1470	1/4"	2.0-5.5	2.0-5.5	253	0.89	8.7	10	1/4"	73	<2.5
F	SD075-AB1100-S4Q	1462804	1100	1/4"	2.5-7.5	2.5-7.5	253	0.89	8.7	10	1/4"	73	<2.5
F	SD100-AB820-S4Q	1462794	820	1/4"	3.5-10.0	3.5-10.0	253	0.89	8.7	10	1/4"	73	<2.5
F	SD140-AB510-S4Q	1462784	510	1/4"	3.5-14.0	3.5-10.0	253	0.89	8.7	10	1/4"	73	<2.5
F	SD160-AB320-S4Q	1462774	320	1/4"	3.5-16.0	3.5-10.0	253	0.89	8.7	10	1/4"	73	<2.5
G	SD023-AR3500-S4Q	1462764	3500	1/4"	1.0-2.3	1.0-2.3	227	0.73	8.7	10	1/4"	73	<2.5
G	SD035-AR2200-S4Q	1462754	2200	1/4"	1.0-3.5	1.0-3.5	227	0.73	8.7	10	1/4"	73	<2.5
G	SD055-AR1470-S4Q	1462744	1470	1/4"	2.0-5.5	2.0-5.5	253	0.89	8.7	10	1/4"	73	<2.5
G	SD075-AR1100-S4Q	1462734	1100	1/4"	2.5-7.5	2.5-7.5	253	0.89	8.7	10	1/4"	73	<2.5
G	SD100-AR820-S4Q	1462724	820	1/4"	3.5-10.0	3.5-10.0	253	0.89	8.7	10	1/4"	73	<2.5
G	SD140-AR510-S4Q	1462714	510	1/4"	3.5-14.0	3.5-10.0	253	0.89	8.7	10	1/4"	73	<2.5
G	SD160-AR320-S4Q	1462704	320	1/4"	3.5-16.0	3.5-10.0	253	0.89	8.7	10	1/4"	73	<2.5

⁽¹⁾ Types D to E, 5/16" hex bit holder optional. Types B to C, 1/4" double ended bit holder optional

⁽²⁾ Types B to G, NPT optional

A side handle should be fitted for torques over 4Nm (SD tools are supplied with a side handle as standard)

Screwdrivers – Shut Off – Lever Start



PICTURE REF	TOOL TYPE	PART NUMBER	FREE SPEED	OUTPUT ⁽¹⁾	TORQUE RANGE	FITTED SPRING	LENGTH	WEIGHT	AIR FLOW	AIR HOSE BORE	AIR INLET ⁽²⁾	SOUND LEVEL	VIBRATION
			r/min	hex	Nm	Nm							
A	SC021-L2300-S4Q	1456654	2300	1/4"	0.4-2.1	0.4-0.9	275	0.68	6.5	6	1/8"	73	<2.5
A	SC021-L1600-S4Q	1456664	1600	1/4"	0.4-2.1	0.6-2.1	275	0.68	6.5	6	1/8"	73	<2.5
A	SC043-L1100-S4Q	1456674	1100	1/4"	0.4-4.3	0.9-4.3	275	0.68	6.5	6	1/8"	73	<2.5
A	SC047-L550-S4Q	1456684	550	1/4"	0.4-4.7	0.9-4.7	275	0.68	6.5	6	1/8"	73	<2.5
B	SD023-LB3500-S4Q	1463094	3500	1/4"	1.0-2.3	1.0-2.3	252	0.76	8.7	10	1/4"	73	<2.5
B	SD035-LB2200-S4Q	1463084	2200	1/4"	1.0-3.5	1.0-3.5	252	0.76	8.7	10	1/4"	73	<2.5
B	SD055-LB1470-S4Q	1463074	1470	1/4"	2.0-5.5	2.0-5.5	278	0.92	8.7	10	1/4"	73	<2.5
B	SD075-LB1100-S4Q	1463064	1100	1/4"	2.5-7.5	2.5-7.5	278	0.92	8.7	10	1/4"	73	<2.5
B	SD100-LB820-S4Q	1463054	820	1/4"	3.5-10.0	3.5-10.0	278	0.92	8.7	10	1/4"	73	<2.5
B	SD140-LB510-S4Q	1463044	510	1/4"	3.5-14.0	3.5-10.0	278	0.92	8.7	10	1/4"	73	<2.5
B	SD160-LB320-S4Q	1463034	320	1/4"	3.5-16.0	3.5-10.0	278	0.92	8.7	10	1/4"	73	<2.5
C	SD023-LR3500-S4Q	1463024	3500	1/4"	1.0-2.3	1.0-2.3	252	0.76	8.7	10	1/4"	73	<2.5
C	SD035-LR2200-S4Q	1463014	2200	1/4"	1.0-3.5	1.0-3.5	252	0.76	8.7	10	1/4"	73	<2.5
C	SD055-LR1470-S4Q	1463004	1470	1/4"	2.0-5.5	2.0-5.5	278	0.92	8.7	10	1/4"	73	<2.5
C	SD075-LR1100-S4Q	1462994	1100	1/4"	2.5-7.5	2.5-7.5	278	0.92	8.7	10	1/4"	73	<2.5
C	SD100-LR820-S4Q	1462984	820	1/4"	3.5-10.0	3.5-10.0	278	0.92	8.7	10	1/4"	73	<2.5
C	SD140-LR510-S4Q	1462974	510	1/4"	3.5-14.0	3.5-10.0	278	0.92	8.7	10	1/4"	73	<2.5
C	SD160-LR320-S4Q	1462964	320	1/4"	3.5-16.0	3.5-10.0	278	0.92	8.7	10	1/4"	73	<2.5

⁽¹⁾ 5/16" hex bit holder optional for type A

⁽²⁾ NPT optional

A side handle should be fitted for torques over 4Nm (SD tools are supplied with a side handle as standard)

Screwdrivers – Shut Off – Pistol Grip



PUSH AND TRIGGER START

PICTURE REF	TOOL TYPE	PART NUMBER	FREE SPEED	OUTPUT	TORQUE RANGE	FITTED SPRING	LENGTH	WEIGHT	AIR FLOW	AIR HOSE BORE	AIR INLET ⁽²⁾	SOUND LEVEL	VIBRATION
			r/min	hex	Nm	Nm	mm	kg	l/s	mm	BSP	dB(A)	ms ⁻²
A	SBP021-T2300-S4Q	1462144	2300	1/4"	0.4-2.1	0.4-2.1	182	0.82	6.5	6	1/8"	73	<2.5
A	SBP021-T1600-S4Q	1462154	1600	1/4"	0.4-2.1	0.4-2.1	182	0.82	6.5	6	1/8"	73	<2.5
A	SBP043-T1100-S4Q	1462164	1100	1/4"	0.4-4.3	1.8-4.3	182	0.82	6.5	6	1/8"	73	<2.5
A	SBP047-T550-S4Q	1462174	550	1/4"	0.4-4.7	1.8-4.7	182	0.82	6.5	6	1/8"	73	<2.5

TRIGGER START

PICTURE REF	TOOL TYPE	PART NUMBER	FREE SPEED	OUTPUT ⁽¹⁾	TORQUE RANGE	FITTED SPRING	LENGTH	WEIGHT	AIR FLOW	AIR HOSE BORE	AIR INLET ⁽²⁾	SOUND LEVEL	VIBRATION
			r/min	hex	Nm	Nm	mm	kg	l/s	mm	BSP	dB(A)	ms ⁻²
B	SCP021-T2300-S4Q	1456734	2300	1/4"	0.4-2.1	0.4-0.9	228	0.86	6.5	6	1/8"	73	<2.5
B	SCP021-T1600-S4Q	1456744	1600	1/4"	0.4-2.1	0.6-2.1	228	0.86	6.5	6	1/8"	73	<2.5
B	SCP043-T1100-S4Q	1456754	1100	1/4"	0.4-4.3	0.9-4.3	228	0.86	6.5	6	1/8"	73	<2.5
B	SCP047-T550-S4Q	1456764	550	1/4"	0.4-4.7	0.9-4.7	228	0.86	6.5	6	1/8"	73	<2.5
C	SCPT021-A2300-S4Q	1458974	2300	1/4"	0.4-2.1	0.4-0.9	230	0.86	6.5	6	1/8"	73	<2.5
C	SCPT021-A1600-S4Q	1458934	1600	1/4"	0.4-2.1	0.6-2.1	230	0.86	6.5	6	1/8"	73	<2.5
C	SCPT043-A1100-S4Q	1458894	1100	1/4"	0.4-4.3	0.9-4.3	230	0.86	6.5	6	1/8"	73	<2.5
C	SCPT047-A550-S4Q	1458854	550	1/4"	0.4-4.7	0.9-4.7	230	0.86	6.5	6	1/8"	73	<2.5
D	2D89-PX-2200	1455874	2200	1/4"	0.9-3.6	0.9-3.5	227	1.2	8	10	1/4"	72	<2.5
D	2D89-PX-1500	1455854	1500	1/4"	0.9-4.5	0.9-3.5	240	1.2	8	10	1/4"	72	<2.5
D	2D89-PX-850	1455834	850	1/4"	1.5-6.8	1.5-6.6	240	1.2	8	10	1/4"	72	<2.5
D	2D89-PX-540	1455814	540	1/4"	1.5-10.7	2.0-10.7	240	1.2	8	10	1/4"	72	<2.5
D	2D89-PX-340	1455794	340	1/4"	3.6-16.6	3.6-16.6	252	1.2	8	10	1/4"	72	<2.5
E	2F89-PX-2200	1336914	2200	1/4"	1.9-5.1	0.9-3.5	223	1.3	9.4	10	1/4"	82	<2.5
E	2F89-PX-1100	1337144	1100	1/4"	1.8-9.0	1.8-5.4	245	1.4	9.4	10	1/4"	82	<2.5
E	2F89-PX-650	1337724	650	1/4"	1.6-12.3	1.6-5.4	245	1.4	9.4	10	1/4"	82	<2.5
E	2F89-PX-450	1337984	450	1/4"	1.6-11.9	1.6-5.4	245	1.4	9.4	10	1/4"	82	<2.5
E	2F89-PX-750	1337304	750	1/4"	3.5-14.0	3.5-14.0	257	1.5	9.4	10	1/4"	82	<2.5
E	2F89-PX-500	1337564	500	1/4"	3.5-15.6	3.5-15.6	257	1.5	9.4	10	1/4"	82	<2.5

⁽¹⁾ Types B, C, D and E, 5/16" hex bit holder optional

⁽²⁾ NPT optional

⁽³⁾ Types B and C are available with a steel nose

A side handle should be fitted for torques over 10Nm

Screwdrivers – Shut Off HLT

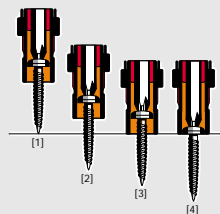


PICTURE REF	TOOL TYPE	PART NUMBER	FREE SPEED	OUTPUT	TORQUE RANGE	FITTED SPRING	LENGTH	WEIGHT	AIR FLOW	AIR HOSE BORE	AIR INLET ⁽¹⁾	SOUND LEVEL	VIBRATION
			r/min	hex	Nm	Nm	mm	kg	l/s	mm	BSP	dB(A)	ms ⁻²
A	SC009-L1600-HLT4M	1459644	1600	1/4"	0.4-0.9	0.4-0.9	286	0.79	7	6	1/8"	73	<2.5
A	SC021-L1600-HLT4M	1459614	1600	1/4"	0.6-2.1	0.6-2.1	286	0.79	7	6	1/8"	73	<2.5
A	SC022-L1100-HLT4M	1459654	1100	1/4"	0.4-2.2	0.4-2.2	286	0.79	7	6	1/8"	73	<2.5
A	SC022-L550-HLT4M	1459664	550	1/4"	0.4-2.2	0.4-2.2	286	0.79	7	6	1/8"	73	<2.5
A	SC043-L1100-HLT4M	1459624	1100	1/4"	0.9-4.3	0.9-4.3	286	0.79	7	6	1/8"	73	<2.5
A	SC047-L550-HLT4M	1459634	550	1/4"	0.9-4.7	0.9-4.7	286	0.79	7	6	1/8"	73	<2.5
B	SCP009-T1600-HLT4M	1459704	1600	1/4"	0.4-0.9	0.4-0.9	245	1.0	7	6	1/8"	73	<2.5
B	SCP021-T1600-HLT4M	1459714	1600	1/4"	0.6-2.1	0.6-2.1	245	1.0	7	6	1/8"	73	<2.5
B	SCP022-T1100-HLT4M	1459724	1100	1/4"	0.4-2.2	0.4-2.2	245	1.0	7	6	1/8"	73	<2.5
B	SCP043-T1100-HLT4M	1459734	1100	1/4"	0.9-4.3	0.9-4.3	245	1.0	7	6	1/8"	73	<2.5
B	SCP022-T550-HLT4M	1459744	550	1/4"	0.4-2.2	0.4-2.2	245	1.0	7	6	1/8"	73	<2.5
B	SCP047-T550-HLT4M	1459754	550	1/4"	0.9-4.7	0.9-4.7	245	1.0	7	6	1/8"	73	<2.5

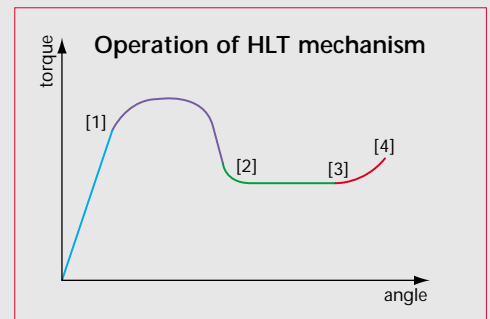
⁽¹⁾ NPT optional

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



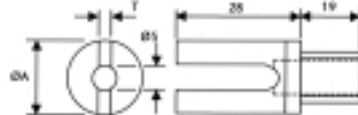
Depth stop changes tool from direct drive to clutch operation



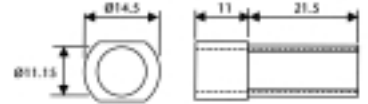
C



D



E



DEPTH STOPS

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

PICTURE REF	PART NUMBER	T	ØA
		mm	mm
D	440863*	5	25
D	440873	3	15

* Supplied with tools

PICTURE REF	PART NUMBER	MATERIAL
E	432533	Steel
E	445623	Composite

Screwdrivers – Shut Off – Fastening Assurance System



The Desoutter FAS2000 – 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.

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 assembly confirmation.

The output signals can then be combined to indicate that all the fasteners on the component have been tightened correctly.

The FAS2000 has been designed with the operator and engineer in mind and is easy to use and set up with a typical procedure comprising:

- Select measurement program.
- Rundown a number of OK screws and record data from the display.
- Enter parameters into the program via facia keypad.
- Select the run mode and the FAS2000 is now ready to use.

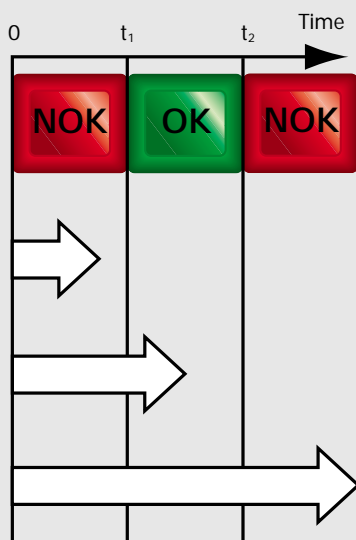
Features

- Automatic measurement of fastener profile for rapid set up.
- 3 programs for different fastener profiles.
- Capacity for a maximum of 80 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 are shown on the LED display to quickly identify the problem with the assembly process. The messages include:

- Fastener already tightened.
- Clutch operated before minimum time.
- Clutch operated after maximum time.
- Trigger/Lever released at the same instant as the clutch operated.
- Trigger/Lever released before the clutch operated.
- Sensor failure.
- Too many fasteners tightened.

OPERATING SEQUENCE



t_1 = Minimum time
 t_2 = Maximum time

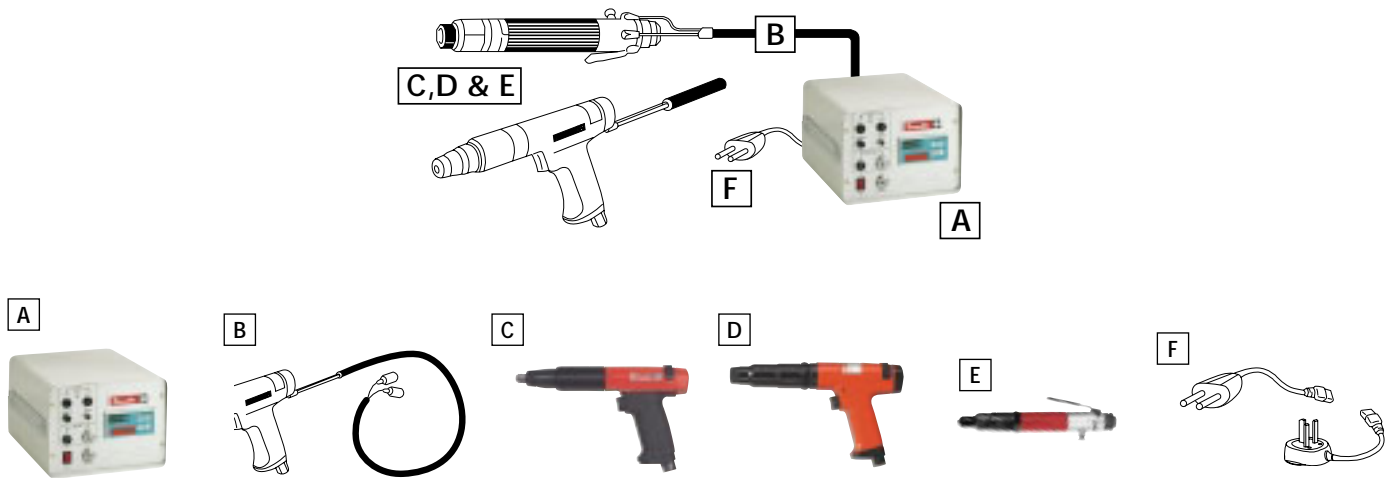
Clutch operated before minimum time, lever/trigger released before minimum time. Indicates crossed thread, screw too short, thread too short, too many washers.

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 – Shut Off – Fastening Assurance System

To make a complete system order the following items:



FAS2000 CONTROLLER

PICTURE REF	DESCRIPTION	PART NUMBER	LENGTH	WIDTH	HEIGHT	WEIGHT
			mm	mm	mm	kg
A	FAS2000	1459424	260	220	150	4.5

Supply Voltage: AC 220-240 V, 50Hz & AC 110-120 V, 60Hz

SENSOR ASSEMBLY

PICTURE REF	DESCRIPTION	PART NUMBER	LENGTH
			mm
B	Sensor Assembly	457203	2000
B	Sensor Assembly	457213	5000

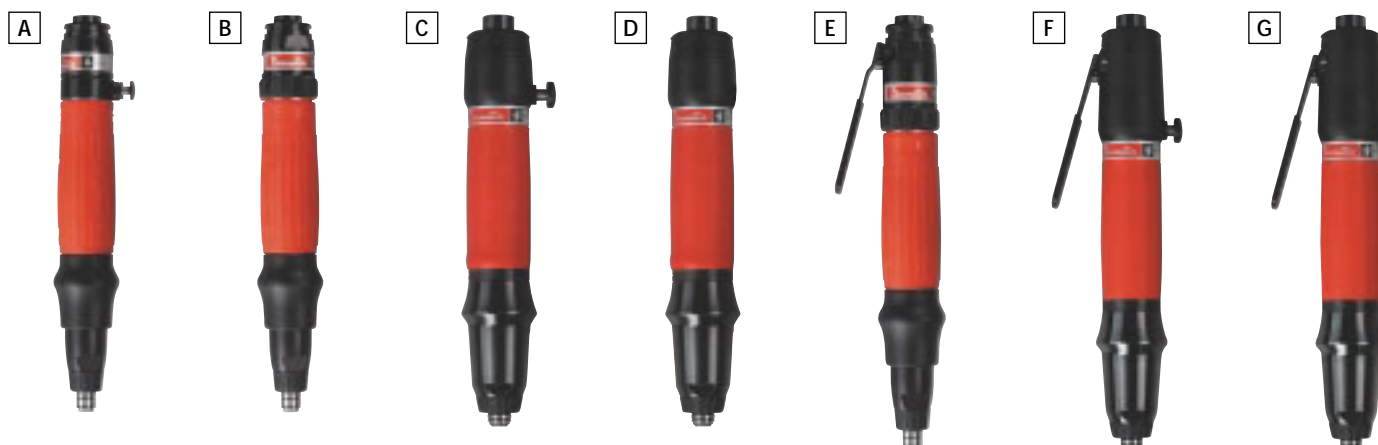
SCREWDRIVERS

PICTURE REF	TOOL TYPE	PART NUMBER	FREE SPEED	OUTPUT	TORQUE RANGE	FITTED SPRING	LENGTH	AIR FLOW	AIR HOSE BORE	AIR INLET	WEIGHT	SOUND LEVEL	VIBRATION LEVEL
			r/min	hex	Nm	Nm	mm	l/s	mm	BSP	kg	dB(A)	ms ⁻²
C	SCP021-T2300-FAS4Q	1461124	2300	1/4"	0.4-2.1	0.4-0.9	245	6.5	6	1/8"	0.93	73	<2.5
C	SCP021-T1600-FAS4Q	1461134	1600	1/4"	0.4-2.1	0.6-2.1	245	6.5	6	1/8"	0.93	73	<2.5
C	SCP043-T1100-FAS4Q	1461144	1100	1/4"	0.4-4.3	0.9-4.3	245	6.5	6	1/8"	0.93	73	<2.5
C	SCP047-T550-FAS4Q	1461154	550	1/4"	0.4-4.7	0.9-4.7	245	6.5	6	1/8"	0.93	73	<2.5
D	2D89-PX-2200-FAS	1461284	2200	1/4"	0.9-3.6	0.9-3.5	244	8	10	1/4"	1.3	72	<2.5
D	2D89-PX-1500-FAS	1461294	1500	1/4"	0.9-4.5	0.9-3.5	257	8	10	1/4"	1.3	72	<2.5
D	2D89-PX-850-FAS	1461304	850	1/4"	1.5-6.8	1.5-6.6	257	8	10	1/4"	1.3	72	<2.5
D	2D89-PX-540-FAS	1461314	540	1/4"	1.5-10.7	2.0-10.7	257	8	10	1/4"	1.3	72	<2.5
D	2D89-PX-340-FAS	1461324	340	1/4"	3.6-16.6	3.6-16.6	269	8	10	1/4"	1.3	72	<2.5
E	2D89-LX-2200-FAS	1460324	2200	1/4"	0.9-3.6	0.9-3.5	277	8	10	1/4"	1.0	73	<2.5
E	2D89-LX-1500-FAS	1460334	1500	1/4"	0.8-4.8	0.8-2.7	295	8	10	1/4"	1.0	73	<2.5
E	2D89-LX-1050-FAS	1460344	1050	1/4"	1.8-6.5	1.8-5.3	295	8	10	1/4"	1.0	73	<2.5
E	2D89-LX-540-FAS	1460354	540	1/4"	1.4-9.1	1.4-5.3	295	8	10	1/4"	1.0	73	<2.5
E	2D89-LX-340-FAS	1460364	340	1/4"	3.6-14.7	3.6-14.7	307	8	10	1/4"	1.0	73	<2.5

POWER CABLE AND PLUG

PICTURE REF	DESCRIPTION	PART NUMBER	LENGTH
			mm
F	Mains Power Cable (UK)	396843	2000
F	Mains Power Cable (Europe)	396853	2000

Screwdrivers – Non Shut Off – Push and Lever Start



PUSH START

PICTURE REF	TOOL TYPE	PART NUMBER	FREE SPEED	OUTPUT ⁽¹⁾	TORQUE RANGE	FITTED SPRING	LENGTH	WEIGHT	AIR FLOW	AIR HOSE BORE	AIR INLET ⁽²⁾	SOUND LEVEL	VIBRATION
			r/min	hex	Nm	Nm	mm	kg	l/s	mm	BSP	dB(A)	ms ⁻²
A	SC024-AB2300-R4Q	1461894	2300	1/4"	0.5-2.4	0.5-1.8	250	0.61	6.5	6	1/8"	75	2-5
A	SC022-AB1600-R4Q	1461904	1600	1/4"	0.5-2.2	0.8-2.2	250	0.61	6.5	6	1/8"	75	3-9
A	SC044-AB1100-R4Q	1461914	1100	1/4"	0.4-4.4	1.3-4.4	250	0.61	6.5	6	1/8"	75	9-35
A	SC044-AB550-R4Q	1461924	550	1/4"	0.4-4.4	1.0-4.4	250	0.61	6.5	6	1/8"	75	10-29
B	SC024-A2300-R4Q	1456614	2300	1/4"	0.5-2.4	0.5-1.8	250	0.61	6.5	6	1/8"	73	2-5
B	SC022-A1600-R4Q	1456624	1600	1/4"	0.5-2.2	0.8-2.2	250	0.61	6.5	6	1/8"	73	3-9
B	SC044-A1100-R4Q	1456634	1100	1/4"	0.4-4.4	1.3-4.4	250	0.61	6.5	6	1/8"	73	9-35
B	SC044-A550-R4Q	1456644	550	1/4"	0.4-4.4	1.0-4.4	250	0.61	6.5	6	1/8"	73	10-29
C	SD023-AB3500-R4Q	1462954	3500	1/4"	1.0-2.3	1.0-2.3	227	0.73	8.7	10	1/4"	73	TBA
C	SD035-AB2200-R4Q	1462944	2200	1/4"	1.0-3.5	1.0-3.5	227	0.73	8.7	10	1/4"	73	TBA
C	SD055-AB1470-R4Q	1462934	1470	1/4"	2.0-5.5	2.0-5.5	253	0.89	8.7	10	1/4"	73	16.1
C	SD075-AB1100-R4Q	1462924	1100	1/4"	2.5-7.5	2.5-7.5	253	0.89	8.7	10	1/4"	73	14.9
C	SD100-AB820-R4Q	1462914	820	1/4"	3.5-10.0	3.5-10.0	253	0.89	8.7	10	1/4"	73	TBA
C	SD140-AB510-R4Q	1462904	510	1/4"	3.5-10.0	3.5-10.0	253	0.89	8.7	10	1/4"	73	14.7
D	SD023-AR3500-R4Q	1462894	3500	1/4"	1.0-2.3	1.0-2.3	227	0.73	8.7	10	1/4"	73	TBA
D	SD035-AR2200-R4Q	1462884	2200	1/4"	1.0-3.5	1.0-3.5	227	0.73	8.7	10	1/4"	73	TBA
D	SD055-AR1470-R4Q	1462874	1470	1/4"	2.0-5.5	2.0-5.5	253	0.89	8.7	10	1/4"	73	16.1
D	SD075-AR1100-R4Q	1462864	1100	1/4"	2.5-7.5	2.5-7.5	253	0.89	8.7	10	1/4"	73	14.9
D	SD100-AR820-R4Q	1462854	820	1/4"	3.5-10.0	3.5-10.0	253	0.89	8.7	10	1/4"	73	TBA
D	SD140-AR510-R4Q	1462844	510	1/4"	3.5-10.0	3.5-10.0	253	0.89	8.7	10	1/4"	73	14.7

LEVER START

PICTURE REF	TOOL TYPE	PART NUMBER	FREE SPEED	OUTPUT ⁽¹⁾	TORQUE RANGE	FITTED SPRING	LENGTH	WEIGHT	AIR FLOW	AIR HOSE BORE	AIR INLET ⁽²⁾	SOUND LEVEL	VIBRATION
			r/min	hex	Nm	Nm	mm	kg	l/s	mm	BSP	dB(A)	ms ⁻²
E	SC024-L2300-R4Q	1456694	2300	1/4"	0.5-2.4	0.5-1.8	250	0.61	6.5	6	1/8"	75	2-5
E	SC022-L1600-R4Q	1456704	1600	1/4"	0.5-2.2	0.8-2.2	250	0.61	6.5	6	1/8"	75	3-9
E	SC044-L1100-R4Q	1456714	1100	1/4"	0.4-4.4	1.3-4.4	250	0.61	6.5	6	1/8"	75	9-35
E	SC044-L550-R4Q	1456724	550	1/4"	0.4-4.4	1.0-4.4	250	0.61	6.5	6	1/8"	75	10-29
F	SD023-LB3500-R4Q	1463214	3500	1/4"	1.0-2.3	1.0-2.3	252	0.76	8.7	10	1/4"	73	TBA
F	SD035-LB2200-R4Q	1463204	2200	1/4"	1.0-3.5	1.0-3.5	252	0.76	8.7	10	1/4"	73	TBA
F	SD055-LB1470-R4Q	1463194	1470	1/4"	2.0-5.5	2.0-5.5	278	0.92	8.7	10	1/4"	73	16.1
F	SD075-LB1100-R4Q	1463184	1100	1/4"	2.5-7.5	2.5-7.5	278	0.92	8.7	10	1/4"	73	14.9
F	SD100-LB820-R4Q	1463174	820	1/4"	3.5-10.0	3.5-10.0	278	0.92	8.7	10	1/4"	73	TBA
F	SD140-LB510-R4Q	1463164	510	1/4"	3.5-10.0	3.5-10.0	278	0.92	8.7	10	1/4"	73	14.7
G	SD023-LR3500-R4Q	1463154	3500	1/4"	1.0-2.3	1.0-2.3	252	0.76	8.7	10	1/4"	73	TBA
G	SD035-LR2200-R4Q	1463144	2200	1/4"	1.0-3.5	1.0-3.5	252	0.76	8.7	10	1/4"	73	TBA
G	SD055-LR1470-R4Q	1463134	1470	1/4"	2.0-5.5	2.0-5.5	278	0.92	8.7	10	1/4"	73	16.1
G	SD075-LR1100-R4Q	1463124	1100	1/4"	2.5-7.5	2.5-7.5	278	0.92	8.7	10	1/4"	73	14.9
G	SD100-LR820-R4Q	1463114	820	1/4"	3.5-10.0	3.5-10.0	278	0.92	8.7	10	1/4"	73	TBA
G	SD140-LR510-R4Q	1463104	510	1/4"	3.5-10.0	3.5-10.0	278	0.92	8.7	10	1/4"	73	14.7

⁽¹⁾ Types A, B and F, 5/16" hex bit optional

⁽²⁾ NPT optional

A side handle should be fitted for torques over 4Nm (SD tools are supplied with a side handle as standard)

Screwdrivers – Non Shut Off – Pistol Grip



PUSH AND TRIGGER START

PICTURE REF	TOOL TYPE	PART NUMBER	FREE SPEED	OUTPUT ⁽¹⁾	TORQUE RANGE	FITTED SPRING	LENGTH	WEIGHT	AIR FLOW	AIR HOSE BORE	AIR INLET ⁽²⁾	SOUND LEVEL	VIBRATION
			r/min	hex	Nm	Nm							
A	SBP024-T2300-R4Q	1462184	2300	1/4"	0.5-2.4	0.5-2.4	182	0.82	6.5	6	1/8"	73	0.9-2.5
A	SBP022-T1600-R4Q	1462194	1600	1/4"	0.5-2.2	0.5-2.2	182	0.82	6.5	6	1/8"	73	1.8-3.2
A	SBP044-T1100-R4Q	1462204	1100	1/4"	0.4-4.4	1.8-4.4	182	0.82	6.5	6	1/8"	73	2.3-3.9
A	SBP044-T550-R4Q	1462214	550	1/4"	0.4-4.4	1.8-4.4	182	0.82	6.5	6	1/8"	73	1.7-4.7

TRIGGER START

PICTURE REF	TOOL TYPE	PART NUMBER	FREE SPEED	OUTPUT ⁽¹⁾	TORQUE RANGE	FITTED SPRING	LENGTH	WEIGHT	AIR FLOW	AIR HOSE BORE	AIR INLET ⁽²⁾	SOUND LEVEL	VIBRATION
			r/min	hex	Nm	Nm							
B	SCP024-T2300-R4Q	1456774	2300	1/4"	0.5-2.4	0.5-1.8	228	0.86	6.5	6	1/8"	73	0.9-2.5
B	SCP022-T1600-R4Q	1456784	1600	1/4"	0.5-2.2	0.8-2.2	228	0.86	6.5	6	1/8"	73	1.8-3.2
B	SCP044-T1100-R4Q	1456794	1100	1/4"	0.4-4.4	1.3-4.4	228	0.86	6.5	6	1/8"	73	2.3-3.9
B	SCP044-T550-R4Q	1456804	550	1/4"	0.4-4.4	1.0-4.4	228	0.86	6.5	6	1/8"	73	1.7-4.7
C	SCPT024-A2300-R4Q	1458994	2300	1/4"	0.5-2.4	0.5-1.8	230	0.86	6.5	6	1/8"	73	0.9-2.5
C	SCPT022-A1600-R4Q	1458954	1600	1/4"	0.5-2.2	0.8-2.2	230	0.86	6.5	6	1/8"	73	1.8-3.2
C	SCPT044-A1100-R4Q	1458914	1100	1/4"	0.4-4.4	1.3-4.4	230	0.86	6.5	6	1/8"	73	2.3-3.9
C	SCPT044-A550-R4Q	1458874	550	1/4"	0.4-4.4	1.0-4.4	230	0.86	6.5	6	1/8"	73	1.7-4.7
D	2D8-PX-2200	1455574	2200	1/4"	0.6-3.6	0.6-1.5	198	1.1	8	10	1/4"	72	1.4-2.6
D	2D8-PX-1500	1455554	1500	1/4"	1.5-6.8	1.5-4.5	211	1.1	8	10	1/4"	72	3.1-3.8
D	2D8-PX-850	1455534	850	1/4"	1.5-6.8	1.5-4.5	211	1.1	8	10	1/4"	72	2.5-3.4
D	2D8-PX-540	1455514	540	1/4"	1.5-10.0	3.6-6.8	211	1.1	8	10	1/4"	72	3.7-4.7
D	2D8-PX-340	1455494	340	1/4"	1.5-10.0	3.6-6.8	211	1.1	8	10	1/4"	72	<2.5
E	2F8-PX-2000	1236884	2000	1/4"	0.6-4.5	1.5-4.5	196	1.3	9.4	10	1/4"	82	<2.5
E	2F8-PX-1100	1236624	1100	1/4"	1.5-6.3	1.5-4.5	216	1.5	9.4	10	1/4"	82	<2.5
E	2F8-PX-650	1235654	650	1/4"	1.5-8.0	3.6-8.0	216	1.5	9.4	10	1/4"	82	<2.5
E	2F8-PX-450	1235814	450	1/4"	3.6-10.0	3.6-8.0	216	1.5	9.4	10	1/4"	82	2.1-2.8
E	2F8-PX-750	1236384	750	1/4"	9.0-15.0	9.0-15.0	256	1.8	9.4	10	1/4"	82	5.3-6.2
E	2F8-PX-500	1236044	500	1/4"	10.0-15.0	10.0-15.0	256	1.8	9.4	10	1/4"	82	6.0-9.2

⁽¹⁾ Types B, C, D and E, 5/16" hex bit holder optional

⁽²⁾ NPT optional

⁽³⁾ Types B and C are available with a steel nose

A side handle should be fitted for torques over 10Nm

Screwdrivers – Direct Drive and Auto Reverse



TRIGGER START

PICTURE REF	TOOL TYPE	PART NUMBER	FREE SPEED	OUTPUT ⁽¹⁾	TORQUE RANGE	LENGTH	WEIGHT	AIR FLOW	AIR HOSE BORE	AIR INLET ⁽²⁾	SOUND LEVEL	VIBRATION
			r/min	hex	Nm	mm	kg	l/s	mm	BSP	dB(A)	ms ⁻²
A	2D2-PX-2300	1391264	2300	1/4"	0.3-3.0	207	1.0	8.3	10	1/4"	72	<2.5
A	2D2-PX-1450	1391004	1450	1/4"	0.5-5.0	207	1.0	8.3	10	1/4"	72	<2.5
A	2D2-PX-900	1390874	900	1/4"	0.9-9.0	207	1.0	8.3	10	1/4"	72	<2.5
A	2D2-PX-500	1390614	500	1/4"	1.4-14.0	207	1.0	8.3	10	1/4"	72	<2.5
B	2F2-PX-750	1239054	750	1/4"	1.2-12.0	215	1.5	9.4	10	1/4"	82	<2.5
B	2F2-PX-500	1239214	500	1/4"	1.8-18.0	215	1.5	9.4	10	1/4"	82	<2.5

⁽¹⁾ All types, 5/16" hex bit holder optional

⁽²⁾ NPT optional



AUTOMATIC REVERSE – FOR USE WITH RIVNUTS

PICTURE REF	TOOL TYPE	PART NUMBER	FREE SPEED	OUTPUT	TORQUE RANGE	LENGTH	WEIGHT	AIR FLOW	AIR HOSE BORE	AIR INLET ⁽¹⁾	SOUND LEVEL	VIBRATION
			r/min	hex	Nm	mm	kg	l/s	mm	BSP	dB(A)	ms ⁻²
A	2D189-LX-1100	1359784	1100	See kits	3.5	360	1.3	7.5	10	1/4"	73	<2.5
A	2D189-LX-550	1359604	550	below	7	360	1.3	7.5	10	1/4"	73	<2.5
B	2F189-PX-900	1240584	900	See kits	1.8-8.9	303	1.6	9.4	10	1/4"	82	<2.5
B	2F189-PX-600	1240744	600	below	1.6-14.0	303	1.6	9.4	10	1/4"	82	<2.5
B	2F189-PX-400	1240904	400		1.6-15.6	303	1.6	9.4	10	1/4"	82	<2.5

⁽¹⁾ NPT optional

A side handle should be fitted for torques over 10Nm

NOSE KITS

OUTPUT	PART NUMBER
M3x0.5	76552
M4x0.7	76562
M5x0.8	76572
M6x1.0	76582
M8x1.25	76592

HOW TO ORDER

1. Order tool from table above
2. Order nose kit from table

Impulse – Shut Off and Non Shut Off



NON SHUT OFF

PICTURE REF	TOOL TYPE	PART NUMBER	FREE SPEED	OUTPUT	TORQUE RANGE	LENGTH	WEIGHT	AIR FLOW	AIR HOSE BORE	AIR INLET ⁽¹⁾	SOUND LEVEL ⁽²⁾	VIBRATION
			r/min	hex	Nm	mm	kg	l/s	mm	BSP	dB(A)	ms ⁻²
A	PT008-L10500-I4Q	1461384	10500	1/4" hex	4-8	238	0.95	5	8	1/4"	72	<2.5
A	PT013-L10500-I4Q	1461394	10500	1/4" hex	8-13	263	1.0	5	8	1/4"	72	<2.5
B	PT030-L9000-I10S	1461404	9000	3/8" sq	15-30	246	1.2	5	8	1/4"	73	<2.5
C	PT009-T7800-I4Q	1461414	7800	1/4" hex	5-9	184	0.95	6	8	1/4"	76	<2.5
C	PT016-T7800-I4Q	1461784	7800	1/4" hex	9-16	208	1.05	6	8	1/4"	76	<2.5
D	PT035-T9000-I10S	1461424	9000	3/8" sq	20-35	175	0.98	6	8	1/4"	77	<2.5
E	PT070-T7500-I13S	1461434	7500	1/2" sq	42-70	179	2.0	7	8	1/4"	79	<2.5
F	PT115-T6000-I13S	1461444	6000	1/2" sq	75-115	185	2.7	9	10	3/8"	78	2.5
F	PT200-T5500-I13S	1461454	5500	1/2" sq	120-200	181	3.3	11	10	3/8"	81	2.7
F	PT250-T4000-I19S	1461464	4000	3/4" sq	160-250	232	4.3	12	10	3/8"	80	4.5

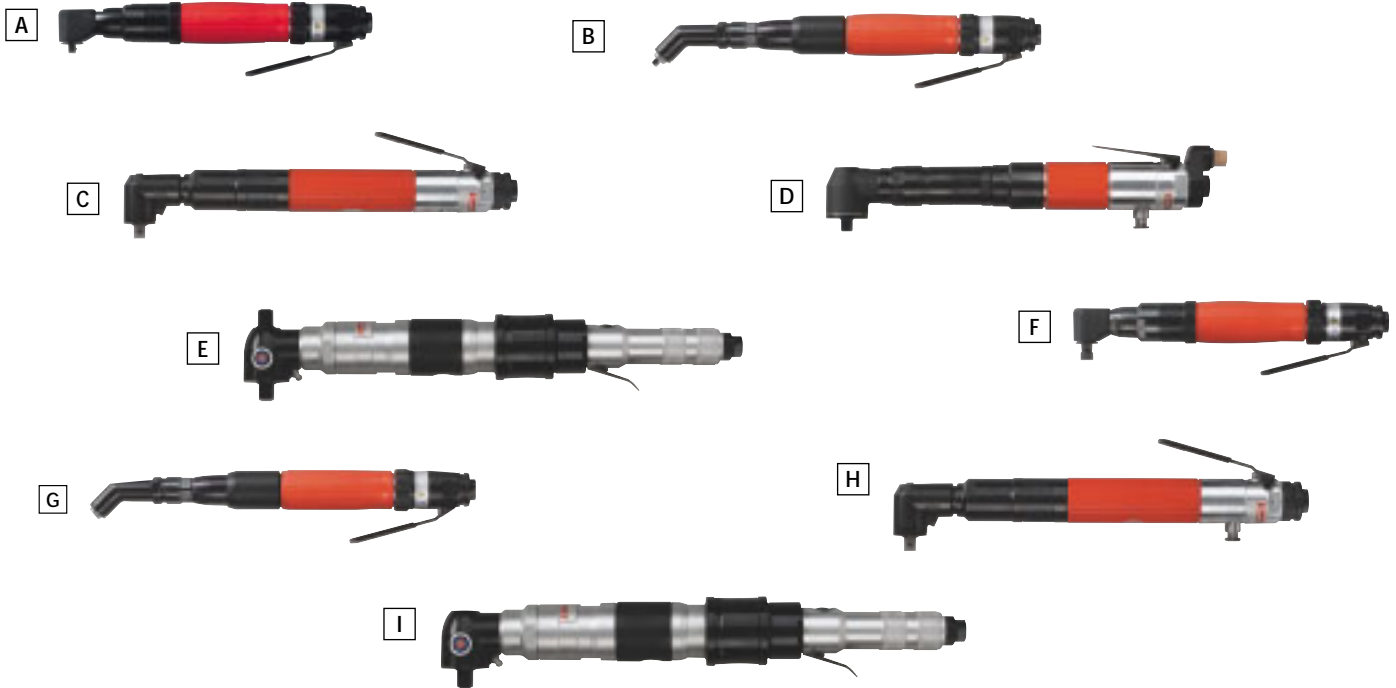
SHUT OFF

PICTURE REF	TOOL TYPE	PART NUMBER	FREE SPEED	OUTPUT	TORQUE RANGE	LENGTH	WEIGHT	AIR FLOW	AIR HOSE BORE	AIR INLET ⁽¹⁾	SOUND LEVEL ⁽²⁾	VIBRATION
			r/min	hex	Nm	mm	kg	l/s	mm	BSP	dB(A)	ms ⁻²
G	PT010-L5000-S4Q	1462254	5000	1/4" hex	5-10	212	0.9	6	8	1/4"	74	<2.5
G	PT014-L6000-S4Q	1462264	6000	1/4" hex	8-14	212	0.9	6	8	1/4"	74	<2.5
H	PT010-T5500-S4Q	1462274	5500	1/4" hex	5-10	166	0.95	6	8	1/4"	74	<2.5
H	PT014-T6000-S4Q	1462284	6000	1/4" hex	8-14	166	1	6	8	1/4"	74	<2.5
I	PT040-T6000-S10S	1462294	6000	3/8" sq	22-40	177	1.4	8	8	1/4"	77	<2.5
J	PT070-T4000-S13S	1462304	4000	1/2" sq	32-70	192	1.8	10	10	1/4"	81	<2.5
K	PT125-T3500-S13S	1462314	3500	1/2" sq	62-125	201	2.4	12	10	1/4"	81	3.3

⁽¹⁾ NPT optional

⁽²⁾ Sound level measured to test code PN8NCT1.2

Angle Head – Shut Off



TWO WAY

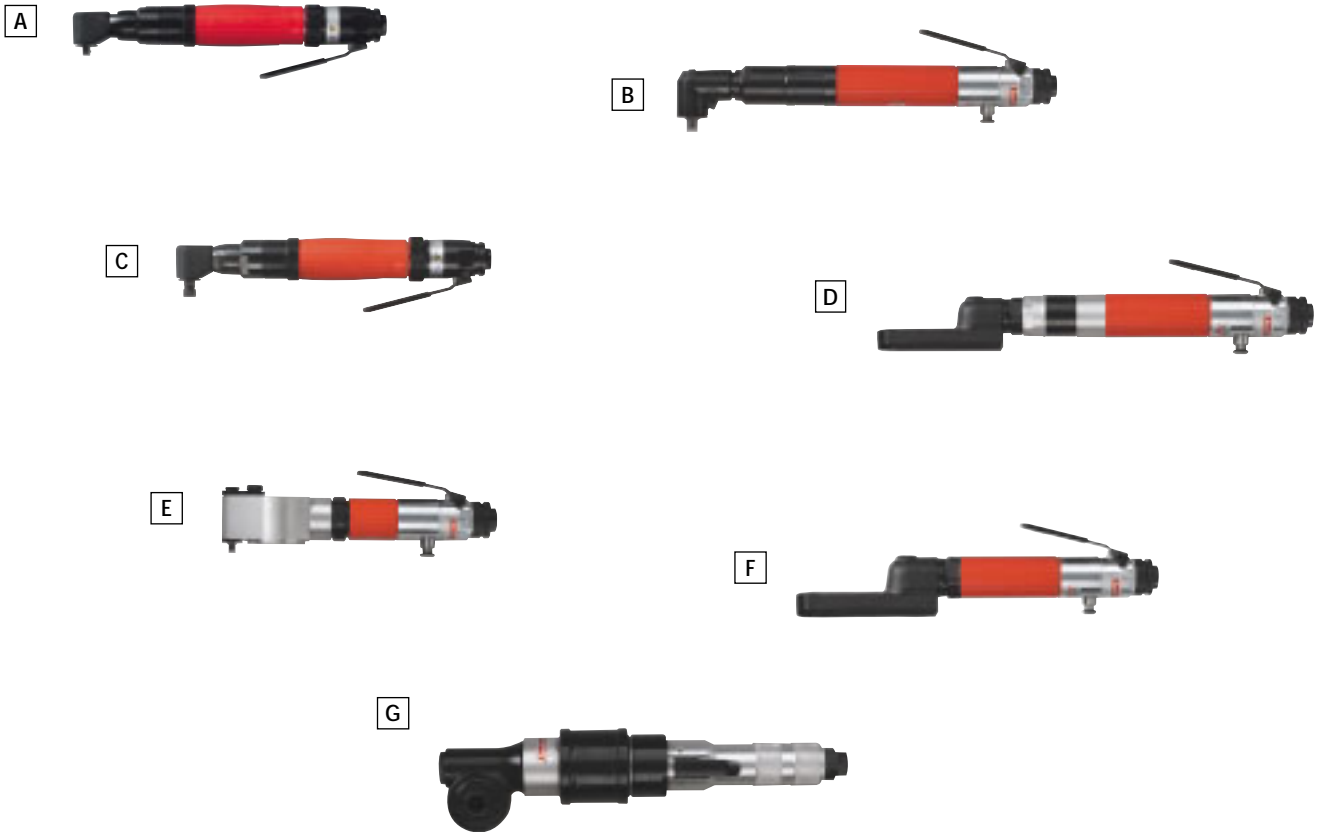
PICTURE REF	TOOL TYPE	PART NUMBER	FREE SPEED	OUTPUT	TORQUE RANGE	FITTED SPRING	LENGTH	WEIGHT	AIR FLOW	AIR HOSE BORE	AIR INLET ⁽¹⁾	SOUND LEVEL	VIBRATION
			r/min	hex	Nm	Nm	mm	kg	l/s	mm	BSP	dB(A)	ms ⁻²
A	SC021-L2000-S90A4S	1459154	2000	1/4" sq	0.4-2.1	0.4-0.9	275	0.84	6.5	6	1/8"	73	<2.5
A	SC021-L1400-S90A4S	1459144	1400	1/4" sq	0.4-2.1	0.6-2.1	275	0.84	6.5	6	1/8"	73	<2.5
A	SC043-L950-S90A4S	1459134	950	1/4" sq	0.4-4.3	0.9-4.3	275	0.84	6.5	6	1/8"	73	<2.5
A	SC047-L500-S90A4S	1459124	500	1/4" sq	0.4-4.7	0.9-4.7	275	0.84	6.5	6	1/8"	73	<2.5
B	SC021-L2200-S45A4S	1459574	2200	1/4" sq	0.4-2.1	0.4-0.9	339	0.85	6.5	6	1/8"	73	<2.5
B	SC021-L1500-S45A4S	1459584	1500	1/4" sq	0.4-2.1	0.6-2.1	339	0.85	6.5	6	1/8"	73	<2.5
B	SC043-L1050-S45A4S	1459594	1050	1/4" sq	0.4-4.3	0.9-4.3	339	0.85	6.5	6	1/8"	73	<2.5
B	SC047-L520-S45A4S	1459604	520	1/4" sq	0.4-4.7	0.9-4.7	339	0.85	6.5	6	1/8"	73	<2.5
C	2D489-LX-1100	1378574	1100	3/8" sq	1.9-5.8	1.9-5.8	324	1.2	8.2	10	1/4"	73	<2.5
C	2D489-LX-650	1378654	650	3/8" sq	2.4-8.8	2.4-8.8	345	1.3	8.2	10	1/4"	73	<2.5
C	2D489-LX-400	1378734	400	3/8" sq	3.5-14.1	3.5-14.1	376	1.7	8.2	10	1/4"	73	<2.5
C	2D489-LX-260	1378814	260	3/8" sq	7.3-21.0	7.3-21.0	376	1.7	8.2	10	1/4"	73	<2.5
C	2D489-LX-160	1389184	160	3/8" sq	7.3-28.0	7.3-28.0	376	1.7	8.2	10	1/4"	73	<2.5
D	2F489-LX-470	1462324	470	3/8" sq	7.0-17.0	7.0-17.0	350	2.1	9.4	10	1/4"	78	<2.5
D	2F489-LX-300	1462334	300	3/8" sq	9.0-25.0	9.0-25.0	362	2.5	9.4	10	1/4"	78	<2.5
E	4H489-N-750	1301984	750	3/8" sq	12.2-36.0	12.2-36.0	435	3.1	16.5	12	3/8"	84	<2.5
E	4H489-N-480	1301804	480	1/2" sq	25.5-47.0	25.5-47.0	459	3.1	16.5	12	3/8"	84	<2.5
F	SC021-L2000-S90A4H	1459074	2000	1/4" hex	0.4-2.1	0.4-0.9	275	0.84	6.5	6	1/8"	73	<2.5
F	SC021-L1400-S90A4H	1459064	1400	1/4" hex	0.4-2.1	0.6-2.1	275	0.84	6.5	6	1/8"	73	<2.5
F	SC043-L950-S90A4H	1459054	950	1/4" hex	0.4-4.3	0.9-4.3	275	0.84	6.5	6	1/8"	73	<2.5
F	SC047-L500-S90A4H	1459044	500	1/4" hex	0.4-4.7	0.9-4.7	275	0.84	6.5	6	1/8"	73	<2.5
G	SC021-L2200-S45A4H	1459484	2200	1/4" hex	0.4-2.1	0.4-0.9	339	0.85	6.5	6	1/8"	73	<2.5
G	SC021-L1500-S45A4H	1459494	1500	1/4" hex	0.4-2.1	0.6-2.1	339	0.85	6.5	6	1/8"	73	<2.5
G	SC043-L1050-S45A4H	1459504	1050	1/4" hex	0.4-4.3	0.9-4.3	339	0.85	6.5	6	1/8"	73	<2.5
G	SC047-L520-S45A4H	1459514	520	1/4" hex	0.4-4.7	0.9-4.7	339	0.85	6.5	6	1/8"	73	<2.5

ONE WAY

PICTURE REF	TOOL TYPE	PART NUMBER	FREE SPEED	OUTPUT	TORQUE RANGE	FITTED SPRING	LENGTH	WEIGHT	AIR FLOW	AIR HOSE BORE	AIR INLET ⁽¹⁾	SOUND LEVEL	VIBRATION
			r/min	hex	Nm	Nm	mm	kg	l/s	mm	BSP	dB(A)	ms ⁻²
H	D489-LX-300	1378494	300	3/8"	7.9-22.0	7.9-22.0	366	1.7	8.8	10	1/4"	77	<2.5
I	H489-N-750	1301724	750	3/8"	12.2-36.0	12.2-36.0	435	2.3	16.5	12	3/8"	84	<2.5
I	H489-N-480	1301644	480	1/2"	25.5-47.0	25.5-47.0	459	3.1	16.5	12	3/8"	84	<2.5
I	H489-N-200	1301564	200	1/2"	30.1-103.0	30.1-103.0	459	3.1	16.5	12	3/8"	84	<2.5

⁽¹⁾ NPT optional

Angle Head – Non Shut Off and Direct Drive



NON SHUT OFF

PICTURE REF	TOOL TYPE	PART NUMBER	FREE SPEED	OUTPUT	TORQUE RANGE	FITTED SPRING	LENGTH	WEIGHT	AIR FLOW	AIR HOSE BORE	AIR INLET ⁽¹⁾	SOUND LEVEL	VIBRATION
			r/min	hex	Nm	Nm	mm	kg	l/s	mm	BSP	dB(A)	ms ⁻²
A	SC024-L2000-R90A4S	1459194	2000	1/4" sq	0.5-2.4	0.5-1.8	275	0.84	6.5	6	1/8"	73	3.7-8.2
A	SC022-L1400-R90A4S	1459184	1400	1/4" sq	0.5-2.2	0.8-2.2	275	0.84	6.5	6	1/8"	73	2.7-7.2
A	SC044-L950-R90A4S	1459174	950	1/4" sq	0.4-4.4	1.3-4.4	275	0.84	6.5	6	1/8"	73	3.2-9.9
A	SC044-L500-R90A4S	1459164	500	1/4" sq	0.4-4.4	1.0-4.4	275	0.84	6.5	6	1/8"	73	4.5-5.2
B	2D48-LX-400	1387984	400	3/8" sq	7.7-14.4	7.7-14.4	334	1.4	8.5	10	1/4"	73	1.3-3.0
B	2D48-LX-260	1388034	260	3/8" sq	7.7-14.4	7.7-14.4	334	1.4	8.5	10	1/4"	73	1.7-3.1
C	SC024-L2000-R90A4H	1459114	2000	1/4" hex	0.5-2.4	0.5-1.8	275	0.84	6.5	6	1/8"	73	3.7-8.2
C	SC022-L1400-R90A4H	1459104	1400	1/4" hex	0.5-2.2	0.8-2.2	275	0.84	6.5	6	1/8"	73	2.7-7.2
C	SC044-L950-R90A4H	1459094	950	1/4" hex	0.4-4.4	1.3-4.4	275	0.84	6.5	6	1/8"	73	3.2-9.9
C	SC044-L500-R90A4H	1459084	500	1/4" hex	0.4-4.4	1.0-4.4	275	0.84	6.5	6	1/8"	73	4.5-5.2
D	2D4872-LX-550	1388614	550	0.445" hex	3.6-6.8	3.6-6.8	382	1.1	8.5	10	1/4"	73	4.1-5.2

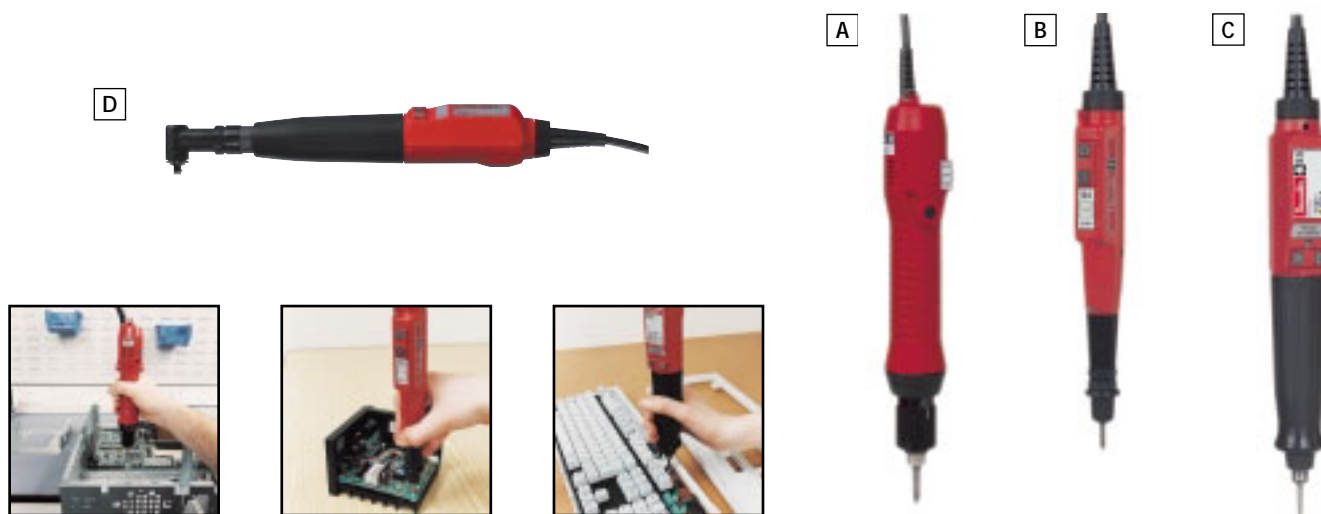
DIRECT DRIVE

PICTURE REF	TOOL TYPE	PART NUMBER	FREE SPEED	OUTPUT	TORQUE RANGE	LENGTH	WEIGHT	AIR FLOW	AIR HOSE BORE	AIR INLET ⁽¹⁾	SOUND LEVEL	VIBRATION
			r/min	hex	Nm	mm	kg	l/s	mm	BSP	dB(A)	ms ⁻²
E	2D4201-LX-500	1344854	500	1/4" sq	1.5-15.4	238	1.1	8	10	1/4"	77	<2.5
F	2D472-LX-550	1388534	550	0.445" hex	1.2-12.6	326	1.0	8.5	10	1/4"	73	<2.5
G	H410-N-500	1302374	500	0.525" hex	3-30	319	1.7	17.9	12	3/8"	82	<2.5
G	H410-N-350	1302454	350	0.525" hex	4.5-45	319	1.7	17.9	12	3/8"	82	<2.5
G	H410-N-150	1302534	150	0.525" hex	8-80	358	2.0	17.9	12	3/8"	82	<2.5
G	H410-N-90	1302614	90	0.525" hex	10-105	358	2.0	13.2	12	3/8"	82	<2.5
G	H410-N-60	1302794	60	0.525" hex	10-105	358	2.0	13.2	12	3/8"	82	<2.5

Pressure on H410-N-90 and 60 must be adjusted so that tool torque output does not exceed 105Nm

⁽¹⁾ NPT optional

Screwdrivers – Electric



- EMC Approved
- ETL Listed (S4 and S5)
- UL Listed (SME)

PUSH START

PICTURE REF	TOOL TYPE	PART NUMBER	FREE SPEED	OUTPUT	TORQUE RANGE	FITTED SPRING	LENGTH	WEIGHT	VOLTAGE	CONTROLLER	SOUND LEVEL	VIBRATION
			r/min	hex	Nm	Nm						
A	SME021-A1000-54U	1458554	1000	1/4"	0.5-2.1	-	264	1.05	230	-	61	<2.5
A	SME021-A700-54U	1458604	700	1/4"	1.0-2.9	-	269	1.05	230	-	60	<2.5
A	SME021-A500-54U	1458624	500	1/4"	1.5-3.9	-	269	1.05	230	-	60	<2.5
B	S4X2A-1000	1225774	1000	3mm	0.09-0.61	0.15-0.43	210	0.28	36	ESP6	54	<2.5
B	S4X2A-800	1225854	800	3mm	0.09-0.72	0.15-0.43	210	0.28	36	ESP6	54	<2.5
B	S4X2A-500	1225934	500	3mm	0.08-0.72	0.15-0.43	210	0.28	36	ESP6	54	<2.5
B	S4X2A-800	1223574	800	1/4"	0.09-0.72	0.15-0.43	210	0.28	36	ESP6	54	<2.5
B	S4X2A-500	1223654	500	1/4"	0.08-0.72	0.15-4.3	210	0.28	36	ESP6	54	<2.5
C	S5V2A-1100	1343124	1100	1/4"	0.4-0.8	0.4-0.8	250	0.8	36	ESP6	59	<2.5
C	S5V2A-650	1343384	650	1/4"	0.63-1.5	0.63-1.5	267	0.8	36	ESP6	59	<2.5
C	S5V2A-400	1343544	400	1/4"	0.7-2.3	0.7-2.3	267	0.8	36	ESP6	59	<2.5

BUTTON START

PICTURE REF	TOOL TYPE	PART NUMBER	FREE SPEED	OUTPUT	TORQUE RANGE	FITTED SPRING	LENGTH	WEIGHT	VOLTAGE	CONTROLLER	SOUND LEVEL	VIBRATION
			r/min	hex	Nm	Nm						
B	S4X2M-800	1421954	800	1/4"	0.09-0.72	0.15-0.43	210	0.28	36	ESP6	54	<2.5
C	S5V2M-650	1344194	650	1/4"	0.45-1.4	0.7-1.4	250	0.8	36	ESP6	59	<2.5
C	S5V2M-400	1344354	400	1/4"	0.36-1.9	0.8-1.9	267	0.9	36	ESP6	59	<2.5

PUSH START – CURRENT CONTROL

PICTURE REF	TOOL TYPE	PART NUMBER	FREE SPEED	OUTPUT	TORQUE RANGE	LENGTH	WEIGHT	VOLTAGE	CONTROLLER	SOUND LEVEL	VIBRATION
			r/min	hex	Nm						
B	S4Y2A-800	1226244	800	3mm	0.09-0.73	189	0.26	36	ESP6	54	<2.5
C	S5Z2A-400	1376794	400	1/4"	0.68-2.00	267	0.7	36	ESP6	59	<2.5

BUTTON START – ANGLE HEAD

PICTURE REF	TOOL TYPE	PART NUMBER	FREE SPEED	OUTPUT	TORQUE RANGE	FITTED SPRING	LENGTH	WEIGHT	VOLTAGE	CONTROLLER	SOUND LEVEL	VIBRATION
			r/min	hex	Nm	Nm						
D	S5V2M-650-90H	1460474	650	1/4" hex	0.45-1.4	0.7-1.4	312	0.9	36	ESP6	59	<2.5
D	S5V2M-400-90H	1460434	400	1/4" hex	0.36-1.9	0.8-1.9	329	1.0	36	ESP6	59	<2.5
D	S5V2M-650-90S	1460464	650	1/4" sq	0.45-1.4	0.7-1.4	312	0.9	36	ESP6	59	<2.5
D	S5V2M-400-90S	1460424	400	1/4" sq	0.36-1.9	0.8-1.9	329	1.0	36	ESP6	59	<2.5

Type A – recommended duty cycle, maximum 12 screws per minute

Types B, C and D – recommended duty cycle, maximum 24 screws per minute

Screwdrivers – Low Voltage Electric Controllers

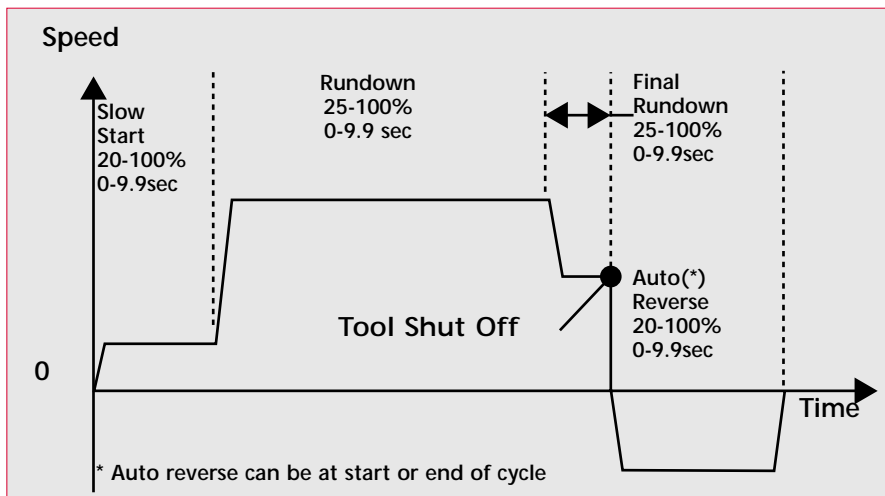
ESP6 Low Voltage Electric Screwdriver Programmer

Programmable modular controller for S4 and S5 low voltage screwdrivers

There are 5 control options:

- 1 Shut off
- 2 Shut off with speed control
- 3 Shut off with speed control and auto reverse option
- 4 Current control with speed control and auto reverse option
- 5 Shut off or current control with speed control and auto reverse options or fastening assurance system

The speed control feature allows the speed during the cycle to be controlled in 3 phases, 4 with the auto reverse facility.



Features

- Push start options of automatic or combination automatic and button
- Automatic tool type recognition
- Left hand or right hand rotation
- 4 selectable parameter groups on options 3, 4 and 5
- Cycle complete indicator
- LCD display and 3 button keypad for simple programming
- 11 languages available in program
- Remote 24V DC I/O interface on options 2, 3, 4 and 5 (external 24v DC supply required)
- Switchable supply voltage AC230, 50Hz or AC120, 60Hz
- EMC and ETL listed

Control Options	Auto Start options	Automatic tool recognition	Left/Right hand rotation	Tool running indicator	Slow start speed control	Rundown Speed control	Final speed control	Reverse speed control	Auto reverse	Current control	4 parameter groups	FAS capability	Remote interface port
Option 1 Controller Part no. 108232	✓	✓	✓	✓									
Option 2 Controller Part no. 108232 Control card Part no. 108242	✓	✓	✓	✓	✓	✓	✓	✓					✓
Option 3 Controller Part no. 108232 Control card Part no. 108252	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓
Option 4 Controller Part no. 108232 Control card Part no. 108252	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
Option 5 Controller Part no. 108232 Control card Part no. 108262	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Power Cables

Europe Part no. 396853

UK Part no. 396843

USA Part no. 459323









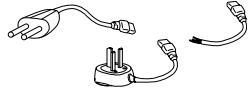

Fastening Assurance System (FAS)

The Desoutter fastening assurance system provides the ability to verify that all the fasteners in an assembly have been correctly fastened.

By comparing the timing of electrical signals from the screwdriver with set parameters, the fastening cycle can be monitored and output signals generated for OK and NOK assembly confirmation. The output signals can then be combined to indicate that all the fasteners on the component have been tightened correctly.





Accessories – Product Specific

	TOOL TYPES	PART NUMBER	DESCRIPTION
	D Series Straight and Angle Head Tools	278373 278383 278393 278403	71mm long 78mm long 87mm long 105mm long Soft grip sleeve for operator comfort
	SC-A/L D Series SD-A/L 2F	70442 70442 467033 288043	Side handle For applications above 4Nm on straight case tools and 10Nm on pistol grip tools
	2A89 SB SBP SC-A/L SCP 2D/D SD-A/L S4 S5	280903 443703 307683 39433/280893 307683 39433 467003 280893 436223	Suspension bail (supplied with tool)
	SC-A/L D/2D-A/L 2F89 H/4H H489-200	95842 70082 69952 70042 69942	Suspension shackle for horizontal tool suspension
	D/2D-A/L	77722	Offset exhaust with 1/4" BSP silencer which can be removed to pipe the exhaust away
	S5	82162	Operating lever – factory fitted only
	SME	438743	Pistol grip
	SME	438963	Clutch locking ring to make the clutch adjustment tamperproof
	SME	438713 438723 438733	Power Cable (UK) Power Cable (Europe) Power Cable (flying lead – not for Europe) (Appropriate cable supplied with tool)
	SB S5/SC S5/SC SB SB S5/SC	108892 75152 74762 464103 464093 464753	Vacuum pick-up attachments 1/4" hex (F6.3) 1/4" hex (F6.3) 5/16" hex (includes 1.5m of 4mm hose) Finder Sleeve Blank – Plastic Finder Sleeve Blank – Steel Finder Sleeve Blank – Steel

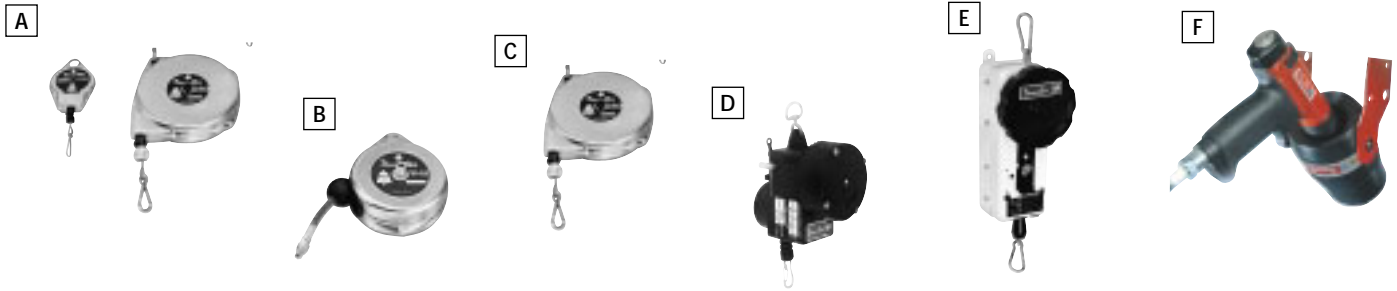
Accessories – Angle Heads and Adaptors

TOOL TYPES	PART NUMBER	DESCRIPTION	
		90° Angle Head, 1/4" hex insert (D6.3) output	
SC	437833	A 1/4"/5/16"	B (mm) 36
S5	91502	A 1/4"/5/16"	C (mm) 9.5
		90° Angle Head, 1/4" square output	
SC	437843	A 1/4"/5/16"	B (mm) 31
S5	91492	A 1/4"/5/16"	C (mm) 10
		45° Angle Head, 1/4" hex insert (D6.3) output	
SC/S5	91532	A – 1/4"/5/16"	
		45° Angle Head, 1/4" square output	
SC/S5	91522	A – 1/4"/5/16"	

Desoutter recommends a steel clutch case with SC screwdrivers when fitting an angle head.
Maximum torques: SC/S5 types – 4.5Nm

TOOL TYPES	PART NUMBER	DESCRIPTION	
		Integral hexagon drive	
2D472	70872	10mm A/F	
2D4872	70902	13mm A/F	
	9742	0.445" A/F (supplied with tool)	
	9752	0.500" A/F	
		Square drive adaptor	
2D472	14392	For use with part no. 9742	
2D4872			
		Square drive adaptor	
H410	14422	A 3/8"	B (mm) 48
	14442	1/2"	46
	14482	1/2"	76

Accessories – Suspension Balancers and Holster



SPRING SUSPENSION BALANCERS

PICTURE REF	TOOL TYPE	PART NUMBER	CAPACITY MINIMUM	CAPACITY MAXIMUM	CABLE TRAVEL	WEIGHT	OVERALL LENGTH
			kg	kg			
A	1DU	52542	0	0.5	1.5	0.6	230
A	2DU	50522	0.5	1	1.5	0.6	230
A	3DU	52862	0.5	1.5	1.5	0.6	230
A	4DU	50532	1	2	1.5	0.6	230
A	5DU	50542	1.4	2.4	1.5	0.6	230
A	10D	50052	2	5	2.4	2.7	369
A	15D	50062	5	7	2.4	3.2	369
A	22D	50072	6	10	2.4	3.2	369

Additional support chain fitted as standard

HOSE REEL SUSPENSION BALANCERS

PICTURE REF	TOOL TYPE	PART NUMBER	CAPACITY MINIMUM	CAPACITY MAXIMUM	FLOW RATE	HOSE TRAVEL	WEIGHT	LENGTH
			kg	kg	l/s			
B	1HU	52552	0	0.5	7.1	1.5	1.2	173
B	3HU	50552	0.5	1.4	7.1	1.25	1.2	173
B	4HU	50562	0.7	2	7.1	1.25	1.4	173
B	4HI	51722	0.7	2	9.3	1.00	1.4	173

Additional support chain fitted as standard

Pistol grip hose reel balancer conversion kit

3HU and 4HU Balancers – Part No. 107403

4HI Balancer – Part No. 115193

SPRING SUSPENSION SELF-LOCK BALANCERS

PICTURE REF	TOOL TYPE	PART NUMBER	CAPACITY MINIMUM	CAPACITY MAXIMUM	CABLE TRAVEL	WEIGHT	OVERALL LENGTH
			kg	kg			
C	105	50572	2	5	2.4	2.7	369
C	155	50582	5	7	2.4	3.2	369
C	225	50592	6	10	2.4	3.2	369

Additional support chain fitted as standard

REACTION FREE SELF-LOCK BALANCERS

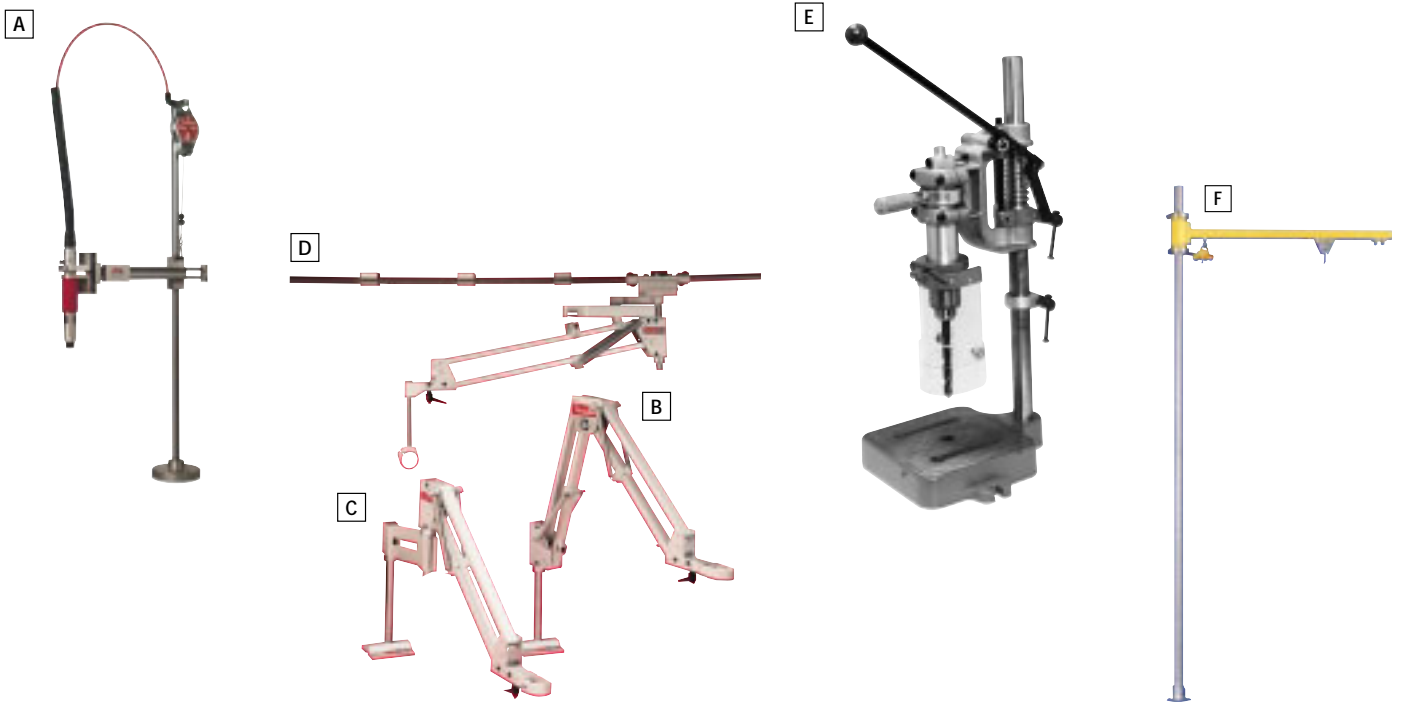
PICTURE REF	TOOL TYPE	PART NUMBER	CAPACITY MINIMUM	CAPACITY MAXIMUM	CABLE TRAVEL	WEIGHT	OVERALL LENGTH
			kg	kg			
D	2R	54422	0.7	1.3	1.7	0.5	124
D	4R	54432	1	2	1.7	0.5	313
E	5R	54442	1.7	3.5	2.4	2.3	313
E	10R	54452	3	6	2.4	2.3	313

For increased safety use of an additional support chain is advised

TOOL HOLSTER

PICTURE REF	TOOL TYPE	PART NUMBER	ADJUSTING ANGLE	INTERNAL DIAMETER	EXTERNAL DIAMETER	TOTAL WIDTH	WEIGHT	HEIGHT
				mm	mm			
F	DTH-42	107892	140°	42	87	116	0.9	130

Accessories – Stands



BENCH STANDS

PICTURE REF	TYPE	HEIGHT	MAXIMUM VERTICAL STROKE	MINIMUM REACH	MAXIMUM REACH	CLAMP RANGE
			mm	mm	mm	mm
A	D53	1130	600	220	580	26-38
A	D53X	1130	600	175	680	26-38

BALANCING ARMS

PICTURE REF	TYPE	TYPE	MAXIMUM VERTICAL STROKE	MINIMUM REACH	MAXIMUM REACH	CLAMP RANGE
			mm	mm	mm	mm
B	D57	Pantograph	-	400	700	25-56
B	D57X	Pantograph	-	450	850	25-56
C	D58	Pantograph with swivel point in the centre of the arm	-	500	750	25-56
D	D59	Rail mounted arm	300	565	650	25-56

LEVER OPERATED STANDS

PICTURE REF	TYPE	HEIGHT	WIDTH	DEPTH	MAXIMUM VERTICAL STROKE	CLAMP SIZE
			mm	mm	mm	mm
E	D54	405	240	205	45	36
E	R55S	610	270	245	57	Flat face

BENCH MOUNTED SWINGING ARM

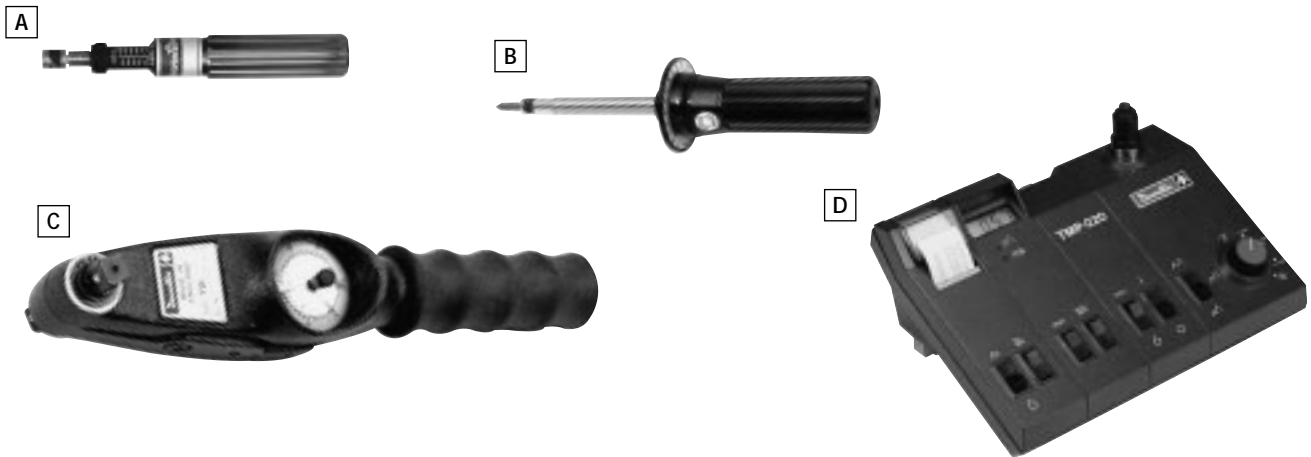
PICTURE REF	TYPE	HEIGHT	HORIZONTAL STROKE	CAPACITY
		mm	mm	kg
F	66542	1600	500	10

BENCH TIDY

The Desoutter range of accessories also include Bench Tidy, a versatile system of uprights and tracking designed to suspend a tools, present components and ensure the workplace is clean.

Ask for further details please ask for Installation Accessories Catalogue part number LT1394.

Accessories – Torque Measurement



PRESET TORQUE ADJUSTABLE SCREWDRIVERS – FOR TIGHTENING

PICTURE REF	TOOL TYPE	PART NUMBER	TORQUE RANGE		INCREMENTS		OUTPUT	LENGTH	WEIGHT
			metric	imperial	metric	imperial			
A	AS-120	81892	10-120 cNm	–	1 cNm	–	1/4" fem. hex.	168	0.16
A	AS-600 ¹⁾	81922	1-6 Nm	–	0.1 Nm	–	1/4" fem. hex.	184	0.34
A	AS-900 ¹⁾	81942	4-9 Nm	–	0.1 Nm	–	1/4" fem. hex.	184	0.34
A	AS-07	81902	–	10-120 ozf in	–	1 ozf in	1/4" fem. hex.	168	0.16
A	AS-50 ¹⁾	81932	–	5-50 lbf in	–	1 lbf in	1/4" fem. hex.	184	0.34
A	AS-80 ¹⁾	81952	–	40-80 lbf in	–	1 lbf in	1/4" fem. hex.	184	0.34

¹⁾ Supplied with 'T' bar

DIAL INDICATING TORQUE SCREWDRIVERS – FOR MEASURING + TIGHTENING

PICTURE REF	TOOL TYPE	PART NUMBER	TORQUE RANGE		INCREMENTS		OUTPUT	LENGTH	WEIGHT
			metric	imperial	metric	imperial			
B	TS-050	81852	0-50 cNm	0-70 ozf in	2 cNm	5 ozf in	1/4" fem. hex.	178	0.2
B	TS-100	81862	0-100 cNm	0-140 ozf in	5 cNm	10 ozf in	1/4" fem. hex.	178	0.2
B	TS-250 ¹⁾	81872	0-250 cNm	0-20 lbf in	10 cNm	1 lbf in	1/4" fem. hex.	250	0.5
B	TS-500 ¹⁾	81882	0-500 cNm	0-40 lbf in	20 cNm	2 lbf in	1/4" fem. hex.	250	0.5

¹⁾ Supplied with 'T' bar

DIAL INDICATING TORQUE WRENCHES – FOR MEASURING + TIGHTENING

PICTURE REF	TOOL TYPE	PART NUMBER	TORQUE RANGE		INCREMENTS		OUTPUT	LENGTH	WEIGHT	A	B
			metric	imperial	metric	imperial					
C	TW-4	81962	0.3-4 Nm	3-35 lbf in	0.1 Nm	1 lbf in	1/4" sq	255	0.52	11	54
C	TW-13	81972	0.5-13.5 Nm	4-120 lbf in	0.5 Nm	2 lbf in	3/8" sq	255	0.52	11	58
C	TW-27	81982	1-27 Nm	1-20 lbf ft	1 Nm	0.5 lbf ft	3/8" sq	255	0.52	11	58
C	TW-80	81992	6-80 Nm	5-60 lbf ft	2 Nm	1 lbf ft	1/2" sq	455	1.36	20	75
C	TW-160	82002	10-160 Nm	6-120 lbf ft	2.5 Nm	2 lbf ft	1/2" sq	535	1.36	20	75

TMP220 BENCH TOP TORQUE METER

PICTURE REF	TORQUE RANGE	NICAD BATTERIES	APPROX BATTERY LIFE	CHARGING TIME	WEIGHT	DIMENSIONS	120V CHARGER	230V CHARGER	230V CHARGER
							(USA)	(EUROPE)	(UK)
D	0-1Nm/0-10 Nm	4 x 1.2V	8	10	3.2	290x195x115	54382	54372	54362

Suitable for ratchet tools and shut off tools up to 10Nm (100 inf lbs)

- Switchable for first peak, max. peak and continuous monitoring
- Accuracy ± 0.5% of full scale
- Switchable metric or imperial torque readout
- RS232 output for data recording by computer

- Lightweight and compact, supplied with charger
- Joint simulator kit supplied – part no. 54392
- Vice bar fitted for rigid mounting
- Printer paper part no. 345953 – order separately
- To order spare charger 120v (USA) part no. 345623, 220v (Europe) part no. 345613, 240v (UK) part no. 345603

SIGMA 2001 – MEASURING UNIT



- Maximum peak or continuous monitoring
- Multilingual programming in French, English, German, Spanish
- Integral CdNi rechargeable battery
- Approximately 8 hour battery life
- For use with static and dynamic transducers
- Sensitivity 0.5-2.5mV/V

- Transducer load 1-10,000 Nm
- Function to allow joint type to be selected (hard/standard/ soft/breakaway)
- Special mode for measuring impulse tools
- Memory, up to 1000 results including torque, date and time
- Data can be downloaded to a printer or PC

DELTA 4000 – MEASURING UNIT



- As per SIGMA 2001 plus
- LED's for OK, below minimum torque, above maximum torque
- Inputs to permit resetting and storing/not storing a result
- Outputs for OK, below minimum torque, above maximum torque, torque reached and analog torque output

- Memory, up to 5000 results including torque, date, time and one curve that can be displayed on a PC
- Up to 1000 parameter sets can be stored
- Statistics, ISO and CNOMO:CAM, CPK, Mean, Standard Deviation ...

Full details of the Georges Renault range of measuring equipment can be found in other catalogues. Please ask for details.

Accessories



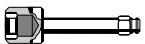
Insert bits (C6.3) and adaptors



Power bits (E6.3 and 5/16")



Power bits and finder sleeves (E6.3 and 5/16")



Nutrunners (E6.3 and 5/16")



Sockets (1/4", 3/8", 1/2") and adaptors



- Air preparation units
- Filter/regulator, lubricators
- Filter, regulator, lubricators
- Filters
- Filter/regulators
- Regulators
- Lubricators



- Reinforced pvc air hose
- Coiled hose

- Quick release couplers
- Quick release nipples
- Thread adaptors

Full details of the Desoutter range of accessories can be found in the catalogues detailed below.

1.1 Consumables

- Screwdriver Bits
- Suction Screw Pick-up
- Impulse/Impact Bits
- Bit holders
- Adaptors
- Nutrunners
- Bottle Cap Drivers
- Sockets
- Stud Runners

Part No. LT1391



1.2 Installation

- Air Supply and Preparation Equipment
- Stands
- Balancers
- Bench Tidy

Part No. LT1394

Due to be released later this year

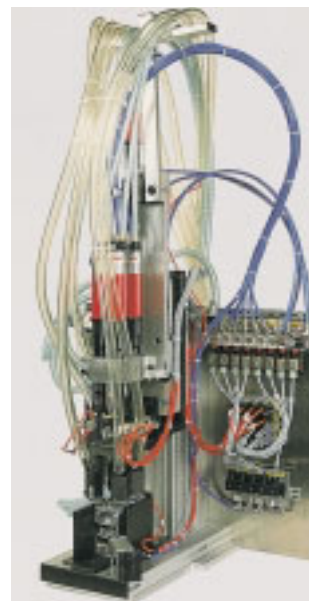
Screwfeeders and Torque Motors

Screwfeeders



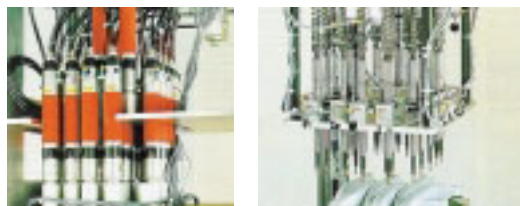
For applications where productivity is of importance the use of a screwfeeder can dramatically reduce the fastening cycle time.

The range of Desoutter Screw Feeding Systems are capable of operation with hand operated and fixtured screwdrivers.



Ask for further details from your local sales contact.

Torque Motors



The Desoutter range of torque motors are for use in fixtures, stands or multiple units. The range comprises:

TYPE	CONTROL	TORQUE RANGE
		Nm
System 100	Stall Torque	2-175
System 200	Minimum Torque Indication	14-175
System 300	Indicated Torque Control	14-175
Shut Off	Torque Controlled Shut Off	0.4-32

Please ask for further details from your local sales contact.