

DRILLS

PISTOL GRIP DRILLS

0.33 HP (0.25 KW) - NON-REVERSIBLE



Performance:

- Power: 0.20 hp (0.15 kw) - 0.90 hp (0.67 kw)
- Speed Range: 500 rpm - 6000 rpm
- Chuck Capacity: 1/4" (6.5 mm) - 1/2" (13 mm)

Features:

- Reversible and Non-reversible
- Trigger Start
- Rotatable Exhaust (1407, 1410, 1412 models)
- Rapid Reverse
- Comfort Grip

Model Number	Chuck Capacity		Free Speed rpm	Weight		Length		Side To Center	
	in	mm		lb	kg	in	mm	in	mm
1412	1/4"	6	3600	1.3	0.6	6.3	160	0.6	15
1410	1/4"	6	2600	1.3	0.6	6.3	160	0.6	15
1407	1/4"	6	950	1.3	0.6	6.7	170	0.6	15

0.90 HP (0.67 KW) - NON-REVERSIBLE

Model Number	Chuck Capacity		Free Speed rpm	Weight		Length		Side To Center	
	in	mm		lb	kg	in	mm	in	mm
1456ES	1/4"	6	6000	2.5	1.1	7	178	0.8	20
1453ES	1/4"	6	4500	2.5	1.1	7	178	0.8	20
1452ES	1/4"	6	3300	2.5	1.1	7	178	0.8	20
1450ES	1/4"	6	2600	2.5	1.1	7	178	0.8	20
1456ES3/8	3/8"	10	6000	2.6	1.2	7	178	0.8	20
1453ES3/8	3/8"	10	4500	3.1	1.4	7	178	0.8	20
1452ES3/8	3/8"	10	3300	2.6	1.2	7	178	0.8	20
1454ES	3/8"	10	2600	2.6	1.2	7	178	0.8	20
1451ES	3/8"	10	1600	3.1	1.4	8.2	208	0.9	23
1455ES	3/8"	10	1000	3.1	1.4	8.2	208	0.9	23
1449ES	3/8"	10	500	3.1	1.4	8.2	208	0.9	23
1450ESB	1/2"	13	2600	2.8	1.3	7	178	0.8	20
1455ESB 1	1/2"	13	1000	3.3	1.5	8.7	221	0.9	23
1449ESB 1	1/2"	13	500	3.3	1.5	8.7	221	0.9	23

0.20 HP (0.15 KW) - REVERSIBLE

Model Number	Chuck Capacity		Free Speed rpm	Weight		Length		Side To Center	
	in	mm		lb	kg	in	mm	in	mm
1412R	1/4"	6	2600	1.3	0.6	6.3	160	0.6	15
1410R	1/4"	6	2000	1.3	0.6	6.3	160	0.6	15

0.60 HP (0.45 KW) - REVERSIBLE

Performance:

- Power: 0.33 hp (0.25 kw) - 0.75 hp (0.56 kw)
- Speed: 540 rpm - 18,000 rpm
- Chuck Capacity: 1/4" (6.5 mm) - 1/2" (13 mm)

Features:

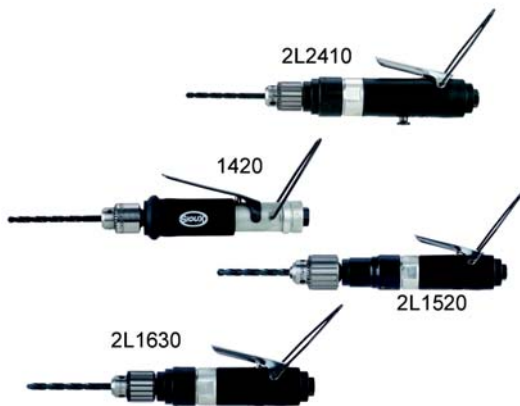
- Reversible and Non-reversible
- Lever Start
- Rear Exhaust
- Comfort Grip (1420, 1422)

Model Number	Chuck Capacity		Free Speed rpm	Weight		Length		Side To Center	
	in	mm		lb	kg	in	mm	in	mm
1450ESR	1/4"	6	2600	2.6	1.2	7.5	191	0.8	20
1449ESR	3/8"	10	4500	3.2	1.5	8.7	221	0.9	23
1454ESR	3/8"	10	2000	2.9	1.3	7.5	191	0.8	20
1451ESR	3/8"	10	1200	3.2	1.5	8.7	221	0.9	23
1455ESR	3/8"	10	700	3.2	1.5	8.7	221	0.9	23
1449ESBR	1/2"	13	4500	3.5	1.6	9.2	234	0.9	23
1455ESBR 1	1/2"	10	700	3.5	1.6	9.2	234	0.9	23

DRILLS

STRAIGHT DRILLS

0.33 HP (0.25 KW) - NON-REVERSIBLE



Performance:

- Power: 0.33 hp (0.25 kw) - 0.75 hp (0.56 kw)
- Speed: 540 rpm - 18,000 rpm
- Chuck Capacity: 1/4" (6.5 mm) - 1/2" (13 mm)

Features:

- Reversible and Non-reversible
- Lever Start
- Rear Exhaust
- Comfort Grip (1420, 1422)

Model Number	Chuck Capacity		Free Speed rpm	Weight		Length		Side To Center	
	in	mm		lb	kg	in	mm	in	mm
1422	1/4"	6	3600	1.2	0.54	8	203	0.6	15
1420	1/4"	6	2600	1.2	0.54	8	203	0.6	15

0.75 HP (0.56 KW) - NON-REVERSIBLE

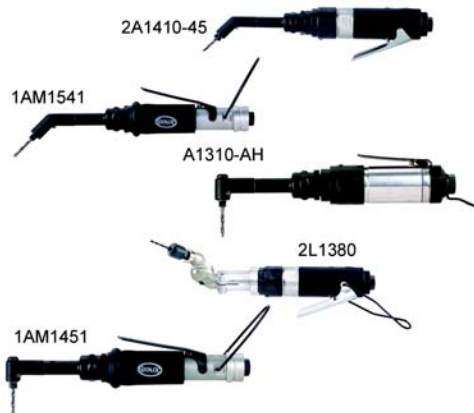
Model Number	Chuck Capacity		Free Speed rpm	Weight		Length		Side To Center	
	in	mm		lb	kg	in	mm	in	mm
2L1910	1/4"	6	18000	2.3	1	8.9	226	1	25
2L1410	1/4"	6	5800	2.3	1	8.9	226	1	25
2L1310	1/4"	6	3350	2.3	1	8.9	226	1	25
2L1610	1/4"	6	2600	2.3	1	8.9	226	1	25
2L1210	1/4"	6	1600	2.7	1.2	10	254	1	25
2L1110	1/4"	6	900	2.7	1.2	10	254	1	25
2L1510	1/4"	6	540	2.7	1.2	10	254	1	25
2L1430	3/8"	10	5800	2.4	1.1	8.9	226	1	25
2L1330	3/8"	10	3350	2.4	1.1	8.9	226	1	25
2L1630	3/8"	10	2600	2.4	1.1	8.9	226	1	25
2L1230	3/8"	10	1600	2.8	1.3	10	254	1	25
2L1130	3/8"	10	900	2.8	1.3	10	254	1	25
2L1520 1	1/2"	13	540	2.8	1.3	10	254	1	25

0.50 HP (0.37 KW) - REVERSIBLE

Model Number	Chuck Capacity		Free Speed rpm	Weight		Length		Side To Center	
	in	mm		lb	kg	in	mm	in	mm
2L2910	1/4"	6	1600	2.5	1.1	9.6	243	1	25
2L2410	1/4"	6	4400	2.6	1.2	9.3	236	1	25
2L2210	1/4"	6	1600	3	1.4	11	279	1	25
2L2230	3/8"	10	1600	3.1	1.4	11	279	1	25

MINATURE ANGLE DRILLS

45° ANGLE HEAD - 0.33 HP (0.25 KW) - 1/4"-28 INTERNAL THREAD SPINDLE



Performance:

- Power: 0.33 hp (0.25 kw) - 0.75 hp (0.56 kw)
- Speed: 540 rpm - 5800 rpm

Features:

- Non-reversible
- Lever Start
- Rear Exhaust
- 45° or 90° Miniature Angle Heads (except 2L1380)
- 180 Adjustable Rotating Head (2L1380)

Model Number	Free Speed rpm	Weight		Length		Side To Center		Air Consumption	
		lb	kg	in	mm	in	mm	cfm	i/s
1AM1541	2800	1.5	0.7	10.2	259	0.3	8	12	6
1AM1451	2200	1.5	0.7	10.2	259	0.3	8	12	6

45° ANGLE HEAD - 0.40 HP (0.30 KW) - 1/4"-28 INTERNAL THREAD SPINDLE

Model Number	Free Speed rpm	Weight		Length		Side To Center		Air Consumption	
		lb	kg	in	mm	in	mm	cfm	i/s
A1310-45	2500	2.3	1.1	10.6	269	0.3	8	18	8
2A1410-45	5800	2.7	1.3	12	305	0.3	8	28	13

DRILLS

MINATURE ANGLE DRILLS

90° ANGLE HEAD - 0.33 HP (0.25 KW) - 1/4"-28 INTERNAL THREAD SPINDLE

Model Number	Free Speed rpm	Weight		Length		Side To Center		Air Consumption	
		lb	kg	in	mm	in	mm	cfm	i/s
1AM1551	2800	1.5	0.7	9.7	246	0.3	8	12	6
1AM1451	2200	1.5	0.7	9.7	246	0.3	8	12	6

90° ANGLE HEAD - 0.33 HP (0.25 KW) - 9/32"-40 INTERNAL THREAD SPINDLE

Model Number	Free Speed rpm	Weight		Length		Side To Center		Air Consumption	
		lb	kg	in	mm	in	mm	cfm	i/s
1AM15521	2800	1.5	0.7	9.7	246	0.3	8	12	6
1AM14521	2200	1.5	0.7	9.7	246	0.3	8	12	6

90° ANGLE HEAD - 0.40 HP (0.30 KW) - 1/4"-28 INTERNAL THREAD SPINDLE

Model Number	Free Speed rpm	Weight		Length		Side To Center		Air Consumption	
		lb	kg	in	mm	in	mm	cfm	i/s
A1310-AH	2500	2.3	1.1	10	254	0.3	8	18	8

90° ANGLE HEAD - 0.75 HP (0.56 KW) - 1/4"-28 INTERNAL THREAD SPINDLE

Model Number	Free Speed rpm	Weight		Length		Side To Center		Air Consumption	
		lb	kg	in	mm	in	mm	cfm	i/s
2A1410-AH	5800	2.7	1.3	11.4	290	0.3	8	28	13
2A1510-AH	540	3.1	1.4	12.8	325	0.3	8	28	13

180° ROTATING HEAD - 0.75 HP (0.56 KW) - CHUCK CAPACITY: (17 MM) THRU 1/4" (0.6 MM)

Model Number	Free Speed rpm	Weight		Length		Side To Center		Air Consumption	
		lb	kg	in	mm	in	mm	cfm	i/s
2L1380	3350	2.3	1.1	13.7	348	0.6	15	28	13

RIGHT ANGLE DRILLS

0.40 HP (0.30 KW) - NON-REVERSIBLE - REAR EXHAUST



Performance:

- Power: 0.40 hp (0.30 kw) - 1.0 hp (0.75 kw)
- Speed: 300 rpm - 3350 rpm
- Chuck Capacity: 1/4" (6.5 mm) - 1/2" (13 mm)

Features:

- Reversible & Non-reversible
- Lever Start
- Rear or Side Exhaust

Model Number	Chuck Capacity		Free Speed rpm	Weight		Length		Side To Center	
	in	mm		lb	kg	in	mm	in	mm
A1310	1/4"	6	2500	3.4	1.5	9	229	0.7	18

0.50 HP (0.37 KW) - REVERSIBLE - REAR EXHAUST

Model Number	Chuck Capacity		Free Speed rpm	Weight		Length		Side To Center	
	in	mm		lb	kg	in	mm	in	mm
2A2310	1/4"	6	2500	3.7	1.7	11.5	292	0.7	18
2A2210	1/4"	6	1200	4.2	1.9	13	330	0.7	18
2A2110	1/4"	6	700	4.2	1.9	13	330	0.7	18

0.75 HP (0.56 KW) - NON-REVERSIBLE - REAR EXHAUST

Model Number	Chuck Capacity		Free Speed rpm	Weight		Length		Side To Center	
	in	mm		lb	kg	in	mm	in	mm
2A1310	1/4"	6	3350	3.6	1.6	10.6	269	0.7	18
2A1610	1/4"	6	2600	3.6	1.6	10.6	269	0.7	18
2A1630	3/8"	10	2600	3.7	1.7	10.6	269	0.7	18
2A1120	1/2"	13	900	4	1.8	12	305	0.7	18

DRILLS

RIGHT ANGLE DRILLS

0.80 HP (0.60 KW) - REVERSIBLE - SIDE EXHAUST

Model Number	Chuck Capacity		Free Speed rpm	Weight		Length		Side To Center	
	in	mm		lb	kg	in	mm	in	mm
3A2530	3/8"	10	1400	5.6	2.5	14.1	358	0.7	18
3A2430	3/8"	10	1000	6.3	2.9	15.4	391	0.7	18
3A2340	1/2"	13	700	6.9	3.1	15.5	394	0.7	19
3A2240	1/2"	13	480	6.9	3.1	15.5	394	0.7	19

1.0 HP (0.75 KW) - NON-REVERSIBLE - SIDE EXHAUST 1

Model Number	Chuck Capacity		Free Speed rpm	Weight		Length		Side To Center	
	in	mm		lb	kg	in	mm	in	mm
3A1530	3/8"	10	1800	4.2	1.9	13.8	351	0.7	18
3A1430	3/8"	10	1200	5.7	2.6	15	381	0.7	18
3A1340	1/2"	13	850	6.5	2.9	15.1	384	0.7	19
3A1240	1/2"	13	600	6.5	2.9	15.1	384	0.7	19
3A1140	1/2"	13	360	6.5	2.9	15.1	384	0.7	19

"D" & "T" HANDLE DRILLS

"D" HANDLE - 1.0 HP (0.75 KW) - NON-REVERSIBLE



D Handle Drills

Performance:

- Power: 1.0 hp (0.75 kw)
- Speed Range: 375 rpm - 2000 rpm
- Chuck Capacity: 3/8" (10 mm) - 1/2" (13 mm)

Features:

- Non-reversible
- Trigger Start
- Side Exhaust
- Comfort Grip
- Swivel Air Inlet

T Handle Drills

Performance:

- Power: 0.80 hp (0.60 kw) - 1.0 hp (0.75 kw)
- Speed Range: 360 rpm - 2650 rpm
- Chuck Capacity: 3/8" (10 mm) - 1/2" (13 mm)

Features:

- Reversible & Non-reversible
- Lever Start
- Handle Grips

Model Number	Chuck Capacity		Free Speed rpm	Weight		Length		Side To Center	
	in	mm		lb	kg	in	mm	in	mm
1465	3/8"	10	1000	6.6	3	13.3	338	1	25
1464	1/2"	13	2000	6.6	3	13.4	340	1	25
1465-1/2	1/2"	13	1000	6.6	3	13.4	340	1	25
1466	1/2"	13	550	6.6	3	13.4	340	1	25
1467	1/2"	13	375	6.6	3	13.4	340	1	25

"T" HANDLE - 1.0 HP (0.75 KW) - NON-REVERSIBLE

Model Number	Chuck Capacity		Free Speed rpm	Weight		Length		Side To Center	
	in	mm		lb	kg	in	mm	in	mm
3T1630	3/8"	10	2650	6.9	3.1	30	762	1	25
3T1530	3/8"	10	2150	6.9	3.1	30	762	1	25
3T1430	3/8"	10	1400	6.2	2.8	30	762	1	25
3T1640	1/2"	13	2650	7	3.2	30	762	1	25
3T1440	1/2"	13	1400	6.3	2.9	30	762	1	25
3T1240	1/2"	13	650	6.3	2.9	30	762	1	25
3T1140	1/2"	13	360	6.3	2.9	30	762	1	25

DRILL CHUCKS & KEYS



Adapts arbor with 1/2"-20 thread to hole saw with 5/8"-18 thread

Model Number	Chuck Capacity in	Key Holder No	Thread Size	Chuck Part No	Key Part No
21077	0 - 1/4"		3/8" - 24	21077	30000
21019A	0 - 1/4"		3/8" - 24	21019A	30202
21002	0 - 3/8"	14273	1/2" - 20	21002	30011
21085	0 - 3/8"	14273	3/8" - 24	21085	30231
21131	1/16" - 3/8"		1/2" - 20	21131	30002
21133	1/16" - 3/8"	14273	3/8" - 24	21133	30002
65562	1/16" - 3/8"1		3/8" - 24	65562	
21132	5/64" - 1/2"1		3/8" - 24	21132	30429
21137	5/64" - 1/2"	14273	1/2" - 20	21137	30011

DRILLS

WIRE BRUSHES



Model Number	Type	Wire Size	Maximum RPM	Size
224	Hollow Center	0.008	22,000	1 X 1"
225	Flared End	0.02	22,000	1 1/2"
226	Solid Wire Filled	0.02	22,000	1 X 1"
227	Solid Wire Filled	0.02	22,000	3/4 X 1"
228	Solid Wire Filled	0.02	25,000	1/2 X 1"
231	Knot Type	0.014	22,000	1 X 1 1/8"
232	Knot Type	0.02	22,000	1 X 1 1/8"

DRILL ARBORS



Model Number	Shank Size	Body Size	Thread Size
49	1/4"	1/2"	3/8" - 16
49A	1/4"	5/8"	5/8" - 11

COMFORT GRIPS



Model Number	For Use On
67806	ES series drills
66520	1400 series pistol grip drills
66124	1400 series straight drills

REMOTE EXHAUST KIT



Model Number	For Use On
3301	1400 series pistol grip drills
3303	Z Handle drills
3302	1400 series straight drills

Sample

ASSEMBLY

NON-SHUTOFF PULSE TOOLS

PISTOL GRIP



Performance:

- Torque: 13 ft lb (18 Nm) - 147 ft lb (196 Nm)
- Speed: 3800 rpm - 6800 rpm
- Bolt Size: 5/16" - 5/8" (M8 - M12)

Features:

- Reversible
- Pistol Grip, Inline and Right Angle
- Rotatable Exhaust (Pistol Grip Models)
- Molded Comfort Grip (Pistol Grip Models)

Model Number	Free Speed rpm	Weight		Recommended Bolt Size		Torque Range		Drive Size	
		lb	kg	in	mm	ft lb	Nm	in	mm
SPW-440D-3	6800	2.1	1	5/16	M8	13-22	18-29	1/4	6
SPW-550D-3	6100	2.1	1	3/8	M8	15-25	20-34	1/4	6
SPW-660D-4 3	6400	2.2	1	3/8	M8	19-28	25-37	1/4	6
SPW-440-3	6800	2.1	1	3/8	M8	19-28	25-37	3/8	10
SPW-550-3	6100	2.1	1	3/8	M8	20-33	27-44	3/8	10
SPW-770D-3	6300	3.2	1.5	7/16	M8	25-35	34-47	1/4	6
SPW-660-4	6400	2.2	1	7/16	M8	25-40	34-54	3/8	10
SPW-770-3	6300	3.2	1.5	1/2	M8	33-57	44-76	3/8	10
SPW-880-4	5500	3.9	1.8	1/2	M10	37-70	49-93	1/2	13
SPW-990-3	4800	4.4	2	9/16	M10	48-85	64-113	1/2	13
SPW-1110-1	4800	4.9	2.2	9/16	M12	62-99	83-132	1/2	13
SPW-1330-1	2800	6.4	2.9	5/8	M12	95-147	127-196	1/2	13

VINYL COVERS



Model Number	For Use On
5050AL	5050AL, 5250A
5003	5038B, 5039B
5004	5050A, 5051A,

SOCKET RETAINING PINS WITH O RINGS



34911 & 14318

Model Number	For Use On	Retaining Pin	O Ring
14318	3/4" Dr. Sockets 6620-6638	34911	14318
14319	Adaptors 2564, 2565, 2566	34911	14319
14317	3/4" Dr. Sockets 6640-6654	34664	14317
14319	Adaptor 2568, All 1" Dr. Sockets	34665	14319

SQUARE DRIVE ADAPTERS



Model Number	Female Sq	Male Sq
2558	3/8"	1/2"
2559	1/2"	3/8"
2561	1/2"	3/4"
2562	5/8"	1/2"
2563	5/8"	3/4"
2564	3/4"	1/2"
2565	3/4"	5/8"
2566	3/4"	1"
2568	1"	3/4"

ASSEMBLY**1/4" (6 MM) RATCHET WRENCH MODEL NO. 5008**

- Steel angle head
- Aluminum housing
- Grade 5 bolt capacity: 5/16" (8 mm)
- Drive size: 1/4" (6 mm)
- Maximum torque: 20 ft lb (27 Nm)
- Free speed: 200 rpm
- Weight: 1.3 lb (0.6 kg)
- Length: 6.6" (168 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)

Model Number

5008

1/4" (6 MM) RATCHET WRENCH MODEL NO. 5009

- Steel angle head
- Composite housing
- Grade 5 bolt capacity: 5/16" (8 mm)
- Drive size: 1/4" (6 mm)
- Maximum torque: 20 ft lb (27 Nm)
- Free speed: 200 rpm
- Weight: 1.3 lb (0.6 kg)
- Length: 6.7" (170 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)

Model Number

5009

3/8" (10 MM) RATCHET WRENCH MODEL NO. 5010

- Steel angle head
- Composite housing
- Grade 5 bolt capacity: 7/16" (11 mm)
- Drive size: 3/8" (10 mm)
- Maximum torque: 50 ft lb (68 Nm)
- Free speed: 150 rpm
- Weight: 2.5 lb (1.1 kg)
- Length: 10.8" (274 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)

Model Number

5010

3/8" (10 MM) RATCHET WRENCH MODEL NO. 5011

- Steel angle head
- Aluminum housing
- Grade 5 bolt capacity: 7/16" (11 mm)
- Drive size: 3/8" (10 mm)
- Maximum torque: 50 ft lb (68 Nm)
- Free speed: 150 rpm
- Weight: 2.6 lb (1.2 kg)
- Length: 10.8" (274 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)

Model Number

5011

1/2" (13 MM) RATCHET WRENCH MODEL NO. 5012

- Steel angle head
- Aluminum housing
- Grade 5 bolt capacity: 7/16" (11 mm)
- Drive size: 1/2" (13 mm)
- Maximum torque: 50 ft lb (68 Nm)
- Free speed: 150 rpm
- Weight: 2.5 lb (1.1 kg)
- Length: 10.8" (274 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)

Model Number

5012

ASSEMBLY

1/4" INSERT BITS

PHILLIPS HEAD

Model Number	Point Size	Length in	Length mm
2547	1	1	25
2548	2	1	25
2549	3	1	25

DRILLS

"D" & "T" HANDLE DRILLS

"T" HANDLE - 0.80 HP (0.60 KW) - REVERSIBLE

Model Number	Chuck Capacity		Free Speed rpm	Weight		Length		Side To Center	
	in	mm		lb	kg	in	mm	in	mm
3T2630	10	2250	7.2	3.3	30	762	1	25	33

Z-HANDLE DRILLS

NON-REVERSIBLE - 0.50 HP (0.37 KW)



Performance:

- Power: 0.33 hp (0.25 kw) - 0.50 hp (0.37 kw)
- Speed Range: 1000 rpm - 5000 rpm
- Chuck Capacity: 1/4" (6.5 mm) - 3/8" (10 mm)

Features:

- Reversible & Non-reversible
- Lever Start
- 360° Rotatable Exhaust
- Suspension Bail

Model Number	Chuck Capacity		Free Speed rpm	Weight		Length		Side To Center	
	in	mm		lb	kg	in	mm	in	mm
2S1510	1/4"	6	5000	2.6	1.2	3.5	89	1	25
2S1410	1/4"	6	3200	2.6	1.2	3.5	89	1	25
2S1310	1/4"	6	2200	2.6	1.2	3.5	89	1	25
2S1210	1/4"	6	1600	2.6	1.2	3.5	89	1	25
2S1110	1/4"	6	1000	2.6	1.2	3.5	89	1	25
2S1330	3/8"	10	2200	2.7	1.2	3.8	97	1	25

REVERSIBLE - 0.33 HP (0.25 KW)

Model Number	Chuck Capacity		Free Speed rpm	Weight		Length		Side To Center	
	in	mm		lb	kg	in	mm	in	mm
2S2410	1/4"	6	3200	2.6	1.2	3.5	89	1	25
2S2310	1/4"	6	2200	2.6	1.2	3.5	89	1	25
2S2210	1/4"	6	1600	2.6	1.2	3.5	89	1	25
2S2110	1/4"	6	1000	2.6	1.2	3.5	89	1	25
2S2330	3/8"	10	2200	2.7	1.2	3.8	97	1	25
2S2230	3/8"	10	1600	2.7	1.2	3.8	97	1	25
2S2130	3/8"	10	1000	2.7	1.2	3.8	97	1	25

Z-HANDLE CORDED DRILLS & DRILL/ DRIVER

DRILL - 0.38 HP (0.28 KW)



Performance:

- Voltage: 120 volts
- Speed Range: 0 - 1300 rpm
- Chuck Capacity: 3/8" (10 mm) - 1/2" (13 mm)

Features:

- Reversible
- Lever Start
- Variable Speed
- Double Insulated

Model Number	Chuck Capacity		Weight		Maximum Free Speed rpm	Length		Side To Center	
	in	mm	lb	kg		in	mm	in	mm
8000	3/8"	10	3.5	1.6	1300	10	254	1	25
8005	3/8"	10	3.5	1.6	2500	10	254	1	25
8050	1/2"	13	3.5	1.6	750	10	254	1	25

DRILLS

Z-HANDLE CORDED DRILLS & DRILL/ DRIVER

DRILL/DRIVER - 0.38 HP (0.28 KW) KEYLESS CHUCK

Model Number	Chuck Capacity		Weight		Maximum Free Speed rpm	Length	Side To Center	
	in	mm	lb	kg		in	in	mm
8030	13	750	1.6	1	3.5	254	25	10

PISTOL GRIP DRILLS

3/8" (10 mm) Micro Drill



- Keyless chuck
- Reversible
- Two-finger variable speed trigger
- Built-in speed regulator
- Free speed: 1500 rpm
- Chuck capacity: 3/8" (10 mm)
- Weight: 1.5 lb (0.7 kg)
- Length: 6.5" (165 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)

Model Number
5203

3/8" (10 mm) Air Drill



- Keyless chuck
- Reversible
- Aluminum housing
- Chuck capacity: 3/8" (10 mm)
- Free speed: 2200 rpm
- Weight: 2.1 lb (1.0 kg)
- Length: 5.9" (150 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)

Model Number
5454
5206

1/2" (13 mm) Air Drill



- Keyed chuck
- Reversible
- Support handle
- Free speed: 800 rpm
- Chuck capacity: 1/2" (13 mm)
- Weight: 2.6 lb (1.2 kg)
- Length: 7.5" (185 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)

Model Number
5449

INLINE DRILLS

3/8" (10 mm) Inline Air Drill



- Keyless Chuck
- Non-Reversible
- Lockoff level throttle
- Rear exhaust
- Built-in speed regulator
- Chuck capacity: 3/8" (10 mm)
- Free speed: 2500 rpm
- Weight: 2.0 lb (0.9 kg)
- Length: 8.0" (200 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)

Model Number
5434
5434KL

DRILLS

RIGHT ANGLE DRILLS

3/8" (10 mm) Right Angle Drill



- Keyless chuck
- Reversible
- Rear exhaust
- Built-in speed regulator
- Free speed: 1200 rpm
- Chuck capacity: 3/8" (10 mm)
- Weight: 2.5 lb (1.1 kg)
- Length: 8.0" (200 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)

Model Number
5430
5430KL

HOLE SAWS



Model Number	Diameter		Mild Steel	Tool and Stainless Steels	Cast Iron	Brass	Aluminum	Thread Size
	in	mm						
375	5/8	16	550	275	365	730	825	1/2" - 20
375A	11/16	17	500	250	330	665	750	1/2" - 20
377	3/4	19	460	230	300	600	690	1/2" - 20
377A	13/16	20	425	210	280	560	635	1/2" - 20
378	7/8	22	390	195	260	520	585	1/2" - 20
378A	15/16	24	370	185	245	495	555	1/2" - 20
379	1	25	350	175	235	410	525	1/2" - 20
379A	1.0625	27	325	160	215	435	480	1/2" - 20
380	1.125	28	300	150	200	400	450	1/2" - 20
381	1.25	31	275	140	180	360	410	5/8" - 18
381A	1.3125	33	260	130	170	345	390	5/8" - 18
382	1.375	35	250	125	165	330	375	5/8" - 18
383	1.5	38	230	115	150	300	345	5/8" - 18
384	1.625	41	210	105	140	280	315	5/8" - 18
385	1.75	44	195	95	130	260	295	5/8" - 18
386	1.875	47	180	90	120	240	270	5/8" - 18
387	2	50	170	85	115	230	255	5/8" - 18
410	2.0625	52	165	80	110	220	245	5/8" - 18
388	2.125	54	160	80	105	210	240	5/8" - 18
389	2.25	57	150	75	100	200	225	5/8" - 18
390	2.375	60	140	70	95	190	220	5/8" - 18
391	2.5	63	135	65	90	180	205	5/8" - 18
412	2.5625	65	130	65	85	175	200	5/8" - 18
392	2.625	67	130	65	85	170	195	5/8" - 18
393	2.75	70	125	60	80	160	185	5/8" - 18
394	2.875	73	120	60	80	160	180	5/8" - 18
395	3	75	115	55	75	150	170	5/8" - 18
396	3.125	79	110	55	70	140	165	5/8" - 18
397	3.25	82	105	50	70	140	155	5/8" - 18
398	3.375	85	100	50	65	130	150	5/8" - 18
402	3.5	89	95	45	65	130	145	5/8" - 18
403	3.625	92	95	45	60	120	140	5/8" - 18
404	3.75	95	90	45	60	120	135	5/8" - 18
405	3.875	98	90	45	60	120	135	5/8" - 18
415	4	100	85	40	55	110	130	5/8" - 18
417	4.125	105	80	40	55	110	120	5/8" - 18
418	4.25	108	80	40	55	110	120	5/8" - 18
411	4.375	111	80	40	50	100	120	5/8" - 18
413	4.5	114	75	35	50	100	105	5/8" - 18
416	4.75	120	70	35	45	95	95	5/8" - 18
433	5	127	65	30	45	90	90	5/8" - 18
435	5.5	140	60	25	40	85	85	5/8" - 18
437	6	152	55	25	3	5	75	5/8" - 18

DRILLS

DRILLS

ARBORS



Model Number	Thread Size	Minimum Drill Size	For Use With Hole Saw Sizes
351D	1/2" -20	1/4" (6 mm)	5/8" (16 mm) - 1-1/4" (31 mm)
352B	1/2" -20	1/2" (13 mm)	5/8" (16 mm) - 1-1/4" (31 mm)
353A	5/8" -18	1/2" (13 mm)	> 1-1/4" (31 mm)
356B	5/8" -18	1/2" (13 mm)	1-1/4" (31 mm) - 3" (75 mm)

PILOT DRILLS



Model Number	Size	For Use With These Arbors
355B	1/4" (6 mm)	351D
355C	1/4" (6 mm)	351D, 352B, 353A, 356B

7-PIECE HOLE SAW KIT

PART NO. 276



Model Number	Description
378	7/8" Hole Saw
379	1" Hole Saw
380	1-1/8" Hole Saw
381	1-1/4" Hole Saw
383	1-1/2" Hole Saw
438	Adapter
351D	Arbor

13-PIECE HOLE SAW KIT

PART NO. 277



Model Number	Description
377	3/4" Hole Saw
378	7/8" Hole Saw
380	1-1/8" Hole Saw
382	1-3/8" Hole Saw
383	1-1/2" Hole Saw
385	1-3/4" Hole Saw
387	2" Hole Saw
389	2-1/4" Hole Saw
391	2-1/2" Hole Saw
351D	Arbor
356B	Arbor
355C	Pilot Drill
438	Adapter

ARBOR ADAPTER

PART NO. 438



Adapts arbor with 1/2"-20 thread to hole saws with 5/8"-18 thread

Model Number	For Use With These Arbors	Saws Sizes
438	351D	1-1/4" thru 1-1/2"

ASSEMBLY

POSITIVE CLUTCH PISTOL GRIP SCREWDRIVERS

2 SERIES - LOW TORQUE - TRIGGER REVERSE

Model Number	Free Speed rpm	Weight		Maximum Torque (Soft Joint) in		Length	
		lb	kg	lb	mm	in	mm
2P2303Q	2500	2.6	1.2	45	5.1	6.8	173
2P2603Q	2000	2.6	1.2	50	5.7	6.8	173
2P2203Q	1200	3.1	1.4	80	9	8	203
2P2103Q	700	3.1	1.4	170	19	8	203

ASSEMBLY

POSITIVE CLUTCH PISTOL GRIP SCREWDRIVERS

SD9 SERIES - LOW TORQUE CLUTCH - RAPID REVERSE

Model Number	Free Speed rpm	Weight		Maximum Torque (Soft Joint) in		Length	
		lb	kg	lb	mm	in	mm
SD9APB-25LQ	2500	2.7	1.2	50	5.7	8.2	208
SD9APB-20LQ	2000	2.7	1.2	65	7.3	8.2	208
SD9APB-12LQ	1200	3.2	1.5	100	11	9.4	239
SD9APB-7LQ	700	3.2	1.5	180	20	9.4	239
SD9APB-4L	400	3.2	1.5	300	33	9.4	239

3 SERIES - HIGH TORQUE CLUTCH - TRIGGER REVERSE

Model Number	Free Speed rpm	Weight		Maximum Torque (Soft Joint) in		Length		Side to center	
		lb	kg	lb	mm	in	mm	in	mm
3P2603	2250	4.6	2.1	84	9.5	8.7	221	1	25
3P2503	1800	4.6	2.1	120	13	8.7	221	1	25

1/4" SCREWDRIVER BITS

ROBERTSON BIT

Model Number	Point Size	Length	
		in	mm
2931	1	1-15/16	49
2932	2	1-15/16	49
2933	3	1-15/16	49

7/16" SCREWDRIVER BITS

PHILLIPS HEAD

Model Number	Point Size	Body Diameter In		Length	
		in	mm	in	mm
2522	2	1/4	6	3-1/2	89
2523	3	5/16	8	3-1/2	89
2524	4	3/8	10	3-1/2	89

SLOTTED HEAD

Model Number	Screw Size	Length	
		in	mm
2509	12, 14	3-7/8	98
2511	14, 16	4-1/8	105
2513	16, 20	4-1/8	105

SOCKET HEAD

Model Number	Hex Size	Length	
		in	mm
2500	3/16"	3-1/2	89
2501	7/32"	3-1/2	89
2502	1/4"	3-1/2	89
2503	5/16"	3-1/2	89
2504	3/8"	3-1/2	89
2505	1/2"	3-1/2	89

BIT HOLDER

PART NO. 2526

Accepts 1/4" Hex Insert Bits

Model Number
2526

MAGNETIC BIT HOLDER

PART NO. 2525

Accepts 1/4" Hex Insert Bits

Bushing Part No. 2497 used with 2525

Model Number
2525

ABRASIVE

STRAIGHT DIE GRINDERS

0.33 HP (0.25 KW) - LEVER THROTTLE



Performance:

- Power: 0.33 hp (0.25 kw) - 1.5 hp (1.1 kw)
- Speed: 18,000 rpm - 25,000 rpm
- Collet Size: 1/8" - 1/4"

Features:

- Lockoff Lever & Twist Throttle
- Front, Rear, Side, and Vacuum Exhaust
- Built-in Speed Control

Model Number	Free Speed rpm	Weight		Collet Size	Exhaust	Length		Air Consumption	
		lb	kg			in	mm	cfm	i/s
1DS111A	25,000	0.9	0.4	1/8"	Front	6	152	17	8
1DS111	25,000	0.9	0.4	1/4"	Front	6	152	17	8
1DS121	25,000	0.9	0.4	1/4"	Rear	6	152	17	8
1DS141	25,000	1.1	0.5	1/4"	Vacuum	6	152	17	8

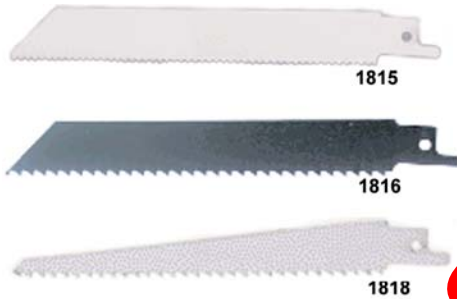
0.33 HP (0.25 KW) - TWIST THROTTLE

Model Number	Free Speed rpm	Weight		Collet Size	Exhaust	Length		Air Consumption	
		lb	kg			in	mm	cfm	i/s
1DS111AT	25,000	0.9	0.4	1/8"	Front	6	152	17	8
1DS111T	25,000	0.9	0.4	1/4"	Front	6	152	17	8
1DS121T	25,000	0.9	0.4	1/4"	Rear	6	152	17	8

SPECIALTY

RECIPROCATING SAW BLADES

FOR USE ON MODEL 1300



Packaged in cartons of 5

Model Number	Teeth Per Inch	Length	
		in	mm
1818 6	6	6	150
1819 12	6	12	300
1815 6	10	6	150
1810 6	14	6	150
1813 4	14	4	100
1811 6	18	6	150
1812 4	18	4	100
1814 6	24	6	150
1816 6	6	6	150
1817 6	10	6	150

FOR USE ON MODEL 5300

Packaged in cartons of 5

Model Number	Teeth Per Inch	Length	
		in	mm
1823 4	18	4	100
1824 4	24	4	100
1825 4	32	4	100

AIR HOSES



Model Number	ID		Fittings	Length	
	in	mm		in	mm
1359	1/4	6	1/4" NPT	6	2.7
1376	3/8	10	1/4" NPT	6	2.7
1377	3/8	10	1/4" NPT	25	11
1378	3/8	10	1/4" NPT	50	23
1360	1/2	13	1/2" NPT	25	11
1388	1/2	13	1/2" NPT	50	23
1358	3/4	20	None	3	1.3
1365	3/4	20	None	3	1.3
1361	1	25	None	4	1.8

GENERAL ACCESSORIES

QUICK CHANGE COUPLERS



Model Number	Thread	Description
1324	1/4" NPT	Quick Change Coupler
1325	1/2" NPT	Quick Change Coupler
1340	1/4" NPT	Female Coupler Nipple
1342	1/4" NPT	Male Coupler Nipple
1343	1/2" NPT	Female Coupler Nipple
1344	1/2" NPT	Male Coupler Nipple

FINISHING

SANDERS

JITTERBUG PALM SANDER MODEL NO. 5559



- Comfort Grip
- Positive lock paper clamps
- Built-in speed regulator
- Wet and dry sanding
- 8000 opm (orbits per minute)
- Weight: 4.5 lb. (2.0 kg)
- Height: 8.0" (203 mm)
- Air consumption: 3 cfm (1.4 l/s)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)

Model Number
5559

DUAL ACTION SANDER MODEL NO. 5558A



- Built-in speed regulator
- Dual action sanding
- Vinyl grip and head cover
- Free speed: 10,000 rpm
- Pad diameter: 6" (150 mm)
- Weight: 4.3 lb. (2.0 kg)
- Height: 5.4" (137 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)
- Sound level: 79 dB(A)
- 6" (150 mm) backing pad included

Model Number
5558

DUAL PISTON INLINE SANDER MODEL NO. 5560



- Dual handles
- Positive lock paper clamps
- 2500 spm (strokes per minute)
- Paper size: 2-3/4" x 17-1/2" (70 x 445 mm)
- Weight: 6.8 lb. (3.1 kg)
- Height: 16" (406 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)

Model Number
5560

PERCUSSIVE

CHISELS FOR 264 WELD FLUX SCALERS



Model Number	Blade Width	Overall Length	Shank	Description
2266	1-3/8"	6-1/2"	1/2"	Wide Scaling Chisel
2267	1-3/8"	6-1/2"	1/2"	Angle Scaling Chisel
2268	5/8"	7-1/2"	Quarter	Narrow Chisel
2269	3/16"	7-1/2"	Octagon	Diamond Point Chisel
2265	1/2"	7"	All	Chisel Blank

ASSEMBLY

NON-SHUTOFF PULSE TOOLS

INLINE

Model Number	Free Speed rpm	Weight		Recommended Bolt Size		Torque Range ft		Drive Size	
		lb	kg	in	mm	lb	mm	in	mm
SPW-440SD-1	5500	1.9	0.9	5/16	M8	11-19	15-25	1/4	6
SPW-550SD-1	5700	1.9	0.9	3/8	M8	15-25	20-34	1/4	6
SPW-660SD-1	5800	2.1	1	3/8	M8	19-28	25-37	1/4	6
SPW-440S-1	5500	1.9	0.9	3/8	M8	15-25	20-34	3/8	10
SPW-550S-1	5700	1.9	0.9	3/8	M8	20-33	27-44	3/8	10
SPW-660S-1	5800	2.1	1	7/16	M8	25-40	34-54	3/8	10
SPW-770S-1	6300	2.7	1.2	1/2	M8	33-57	44-76	3/8	10

RIGHT ANGLE

Model Number	Free Speed rpm	Weight		Recommended Bolt Size		Torque Range ft		Drive Size	
		lb	kg	in	mm	lb	mm	in	mm
SPW-770SC-1	6300	3.7	1.7	7/16	M8	25-37	33-50	1/4	6

MECHANICAL SHUTOFF PULSE TOOLS



Performance:

- Torque: 7.5 ft lb (10 Nm) - 84 ft lb (113 Nm)
- Speed: 4800 rpm - 6300 rpm
- Screw size: 5/16" - 9/16" (M6 - M12)

Features:

- Pistol Grip
- Trigger Start
- Reversible
- Molded Comfort Grip
- Rotatable Exhaust

Model Number	Free Speed rpm	Weight		Torque Range ft		Drive Size		Rec Hose Size	
		lb	kg	lb	mm	in	mm	in	mm
SPT-440-1	6700	2.8	1.2	9-15	12-20	3/8	10	1/4	6.3
SPT-550-1	5800	2.4	1.2	11-19	15-25	3/8	10	1/4	6.3
SPT-660-1	5400	2.8	1.3	15-26	20-35	3/8	10	3/8	9.5
SPT-770-1	6300	3.6	1.6	22-34	30-45	3/8	10	3/8	9.5
SPT-880-1	5800	4.5	2	30-45	40-60	1/2	13	3/8	9.5
SPT-990-1	4800	5.3	2.4	41-60	55-80	1/2	13	3/8	9.5
SPT-1110-1	4800	5.7	2.6	56-97	75-130	1/2	13	3/8	9.5
SPT-1330-1	3500	7.3	3.3	68-120	90-160	1/2	13	3/8	9.5

ELECTRONIC SHUTOFF PULSE TOOLS



Performance:

- Torque: 7.5 ft lb (10 Nm) - 84 ft lb (113 Nm)
- Speed: 4800 rpm - 6300 rpm
- Screw size: 5/16" - 9/16" (M6 - M12)

Features:

- Pistol Grip
- Trigger Start
- Reversible
- Molded Comfort Grip
- Rotatable Exhaust

Model Number	Free Speed rpm	Weight		Torque Range ft		Drive Size		Rec Hose Size	
		lb	kg	lb	Nm	in	mm	in	mm
SET-44D-2SET	6300	2.8	1.3	7.5-15	10-20	1/4	6	1/4	6.3
SET-44-2SET	6300	2.8	1.3	11-19	15-25	3/8	10	1/4	6.3
SET-66D-2SET	5300	3	1.4	18-24	24-32	1/4	6	3/8	9.5
SET-55D-2SET	5500	2.8	1.3	15-25	20-34	1/4	6	1/4	6.3
SET-55-2SET	5500	2.8	1.3	20-33	27-44	3/8	10	1/4	6.3
SET-66-2SET	5300	3	1.4	25-40	34-54	3/8	10	3/8	9.5
SET-77-1SET	6300	3.6	1.6	33-56	44-76	3/8	10	3/8	9.5
SET-88-1SET	5500	4.2	1.9	36-69	49-93	1/2	13	3/8	9.5
SET-99-1SET	4800	4.9	2.2	48-84	64-113	1/2	13	3/8	9.5

ASSEMBLY

COMMANDER

PART NO. SET-002-1



Model Number
SET-002-1

SENSOR CABLE

PART NO. 601766



Model Number
601766

INTERFACE UNIT

PART NO. SET-001-1



Model Number
SET-001-1

SOLENOID

PART NO. 601767



Model Number
601767

Sample

ASSEMBLY

POSITIVE CLUTCH PISTOL GRIP SCREWDRIVERS

1 SERIES - RAPID REVERSE



Performance:

- Torque: 24 in. lb (2.7 Nm) - 300 in. lb (34.0 Nm)
- Speed: 400 rpm - 2500 rpm

Features:

- Reversible and Non-reversible
- Trigger Start
- Trigger or Rapid Reverse
- Comfort Grip (1OM, SD9 series)
- Rotatable Exhaust (1OM, 2P series)

Model Number	Free Speed rpm	Weight		Maximum Torque (Soft Joint) in		Length		Side To Center	
		lb	kg	lb	nm	in	mm	in	mm
1OM2403	2000	1.6	0.7	24	2.7	6.7	170	0.7	17
1OM2303	1400	1.8	0.8	30	3.4	7.7	196	0.7	17
1OM2203	1000	1.8	0.8	40	4.5	7.7	196	0.7	17
1OM2103	725	1.8	0.8	55	6.2	7.7	196	0.7	17

2 SERIES - MID TORQUE CLUTCH - TRIGGER REVERSE

Model Number	Free Speed rpm	Weight		Maximum Torque (Soft Joint) in		Length	
		lb	kg	lb	nm	in	mm
2P2303AQ	2500	2.6	1.2	50	5.7	6.8	173
2P2603AQ	2000	2.6	1.2	65	7.3	6.8	173
2P2203AQ	1200	3.1	1.4	100	11.3	8	203
2P2103AQ	700	3.1	1.4	180	20	8	203
2P2503AQ	400	3.1	1.4	300	33	8	203

SD9 SERIES - MID TORQUE CLUTCH - RAPID REVERSE

Model Number	Free Speed rpm	Weight		Maximum Torque (Soft Joint) in		Length	
		lb	kg	lb	nm	in	mm
SD9APB-25MQ	2500	2.7	1.2	50	5.7	8.2	208
SD9APB-20MQ	2000	2.7	1.2	65	7.3	8.2	208
SD9APB-12MQ	1200	3.2	1.5	100	11.3	9.4	239
SD9APB-7MQ	700	3.2	1.5	180	20.3	9.4	239
SD9APB-4MQ	400	3.2	1.5	300	33	9.4	239

2 SERIES - HIGH TORQUE CLUTCH - TRIGGER REVERSE

Model Number	Free Speed rpm	Weight		Maximum Torque (Soft Joint) in		Length	
		lb	kg	lb	nm	in	mm
2P2303ASQ	2500	2.6	1.2	50	5.7	6.8	173
2P2603ASQ	2000	2.6	1.2	65	7.3	6.8	173
2P2203ASQ	1200	3.1	1.4	100	11	8	203

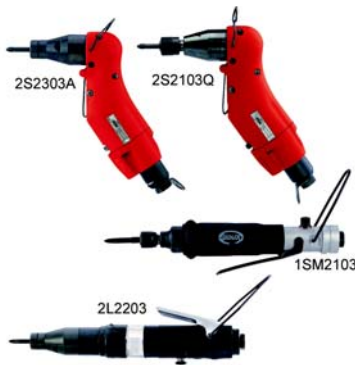
SD9 SERIES - HIGH TORQUE CLUTCH - RAPID REVERSE

Model Number	Free Speed rpm	Weight		Maximum Torque (Soft Joint) in		Length		Side To Center	
		lb	Kg	lb	nm	in	mm	in	mm
3P2603A	1200	3.2	1.5	100	11	9.4	239	0.9	23
SD9APB-25PQ	2500	2.7	1.2	50	5.7	8.2	208	0.9	23
SD9APB-20PQ	2000	2.7	1.2	65	7.3	8.2	208	0.9	23

ASSEMBLY

POSITIVE CLUTCH Z HANDLE AND INLINE SCREWDRIVERS

INLINE



Performance:

- Torque: 24 in. lb (2.7 Nm) - 80 in. lb (9.0 Nm)
- Speed: 800 rpm - 2500 rpm

Features:

- Lever Start
- Reversible
- Rear Exhaust

Model Number	Free Speed rpm	Weight		Maximum Torque (Soft Joint) in		Length		Side To Center	
		lb	kg	lb	mm	in	mm	in	mm
1SM2403	2200	1.2	0.5	24	2.7	8.1	206	0.6	15
1SM2303	1500	1.4	0.6	30	3.4	9.1	231	0.6	15
1SM2203	1100	1.4	0.6	40	4.5	9.1	231	0.6	15
1SM2103	800	1.4	0.6	55	6.2	9.1	231	0.6	15

INLINE - LOW TORQUE CLUTCH

Model Number	Free Speed rpm	Weight		Maximum Torque (Soft Joint) in		Length	
		lb	kg	lb	nm	in	mm
2L2303Q	2500	2.6	1.2	45	5.1	10.2	259
2L2603Q	2000	2.6	1.2	50	5.7	10.2	259
2L2203Q	1200	3.1	1.4	80	9	11.4	290

Z HANDLE - LOW TORQUE CLUTCH

Model Number	Free Speed rpm	Weight		Maximum Torque (Soft Joint) in		Length	
		lb	kg	lb	nm	in	mm
2S2303Q	2200	2.6	1.2	30	3.4	4.3	109
2S2203Q	1600	2.6	1.2	46	5.2	4.3	109
2S2103Q	1000	2.6	1.2	60	6.8	4.3	109

Z HANDLE - MID-TORQUE CLUTCH

Model Number	Free Speed rpm	Weight		Maximum Torque (Soft Joint) in		Length	
		lb	kg	lb	nm	in	mm
2S2303AQ	2200	2.6	1.2	30	3.4	4.3	109
2S2203AQ	1600	2.6	1.2	46	5.2	4.3	109
2S2103AQ	1000	2.6	1.2	60	6.8	4.3	109

STALL PISTOL GRIP SCREWDRIVERS

TRIGGER START - TRIGGER REVERSE



Performance:

- Torque: 18in. lb (2.0Nm) -310in. lb (35Nm)
- Speed: 400 rpm -5800 rpm

Features:

- Reversible and Non-reversible
- Trigger Start
- Trigger or Rapid Reverse
- Comfort Grip (10M, SD9 series)

Model Number	Free Speed rpm	Weight		Maximum Torque (Soft Joint) in		Length		Side To Center	
		lb	kg	lb	nm	in	mm	in	mm
10M2507	2600	1.6	0.7	18	2	6.7	170	0.7	18
10M2407	2000	1.6	0.7	24	2.7	6.7	170	0.7	18
10M2307	1400	1.8	0.8	30	3.4	7.7	196	0.7	18
10M2207	1000	1.8	0.8	40	4.5	7.7	196	0.7	18
10M2107	725	1.8	0.8	55	6.2	7.7	196	0.7	18
2P2407	4400	2.3	1	55	6.2	8.8	224	0.9	23
2P2307	2500	2.3	1	65	7.3	8.8	224	0.9	23
2P2607	2000	1.8	0.8	75	8.5	8.8	224	0.9	23
2P2207	1200	1.8	0.8	115	13	10	254	0.9	23
2P2107	700	1.8	0.8	240	27	10	254	0.9	23
2P2507	400	1.8	0.8	310	35	10	254	0.9	23

ASSEMBLY

STALL PISTOL GRIP SCREWDRIVERS

TRIGGER START - RAPID REVERSE

Model Number	Free Speed rpm	Weight		Maximum Torque (Soft Joint) in		Length		Side To Center	
		lb	kg	lb	nm	in	mm	in	mm
SD9APB-44Q	4400	2.4	1.1	30	3.4	6.4	163	0.9	23
SD9APB-25Q	2500	2.4	1.1	50	5.7	6.4	163	0.9	23
SD9APB-20Q	2000	2.4	1.1	65	7.3	6.4	163	0.9	23
SD9APB-12Q	1200	2.9	1.3	100	11	7.6	193	0.9	23
SD9APB-7Q	700	2.9	1.3	180	20	7.6	193	0.9	23
SD9APB-4Q	400	2.9	1.3	300	34	7.6	193	0.9	23

TRIGGER START - NON-REVERSIBLE

Model Number	Free Speed rpm	Weight		Maximum Torque (Soft Joint) in		Length		Side To Center	
		lb	kg	lb	nm	in	mm	in	mm
2P1407	5800	2.3	1	65	7.3	5.4	137	0.9	23
2P1607	2600	2.3	1	105	12	5.4	137	0.9	23
2P1207	1600	2.7	1.2	145	16	6.6	168	0.9	23
2P1107	900	2.7	1.2	265	30	6.6	168	0.9	23

FINISHING

SANDERS

RIGHT ANGLE SANDER MODEL NO. 5287A



- Lockoff lever throttle
- Support handle can be mounted on either side
- Built-in speed regulator
- Rear exhaust
- Free Speed: 6000 rpm
- Pad diameter: 7" (180 mm)
- Weight: 4.4 lb. (2.0 kg)
- Length: 12.6" (320 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)
- Spindle thread: 5/8"-11

Model Number
5287A

MICRO RANDOM ORBITAL SANDER MODEL NO. 5201



- Two-finger variable speed trigger
- Built-in speed regulator
- Down handle exhaust
- Free Speed: 15,000 rpm
- Weight: 1.3 lb. (0.6 kg)
- Length: 4.3" (109 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)
- Spindle thread: 5/16"-24
- 3" (75 mm) hook & loop backing pad included

Model Number
5201

VERTICAL SANDER MODEL NO. 5290



- Aluminum housing
- Side handle exhaust
- Built-in speed regulator
- Removable auxiliary handle
- Free speed: 5000
- Pad diameter: 7" (180 mm)
- Weight: 5 lb. (2.3 kg)
- Height: 7.5" (191 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)
- Spindle thread: 5/8"-11
- 7" (180 mm) backing pad included

Model Number
5290

FINISHING

SANDERS

PISTOL GRIP SANDER MODEL NO. 5540



- Aluminum housing
- Built-in speed regulator
- Weight: 2.2 lb. (1.0 kg)
- Length: 4.3" (109 mm)
- Air inlet size: 1/4" NPT
- Spindle thread: 7/16"-20
- Recommended hose size: 3/8" (10 mm)
- 3" (75 mm) and 4-1/2" (115 mm) sanding pads included

Model Number
5540

GEARED RANDOM ORBITAL SANDER MODEL NO. 5557



- Geared output
- Built-in speed regulator
- Built-in guard
- Vinyl grip and head cover
- Free speed: 850 rpm
- Pad diameter: 8" (200 mm)
- Weight: 4.8 lb. (2.2 kg)
- Height: 4.7" (119 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)
- 8" (200 mm) backing pad included

Model Number
5557

PERCUSSIVE

270 RIVET SETS



2228



2238

Model Number	Rivet Diameter Size	Rivet Head Cupping
2228	3/32"	Button Head
2229	1/8"	Button Head
2230	5/32"	Button Head
2231	3/16"	Button Head
2244	1/4"	Button Head
2232	3/32"	Round Head
2233	1/8"	Round Head
2234	5/32"	Round Head
2235	3/16"	Round Head
2245	1/4"	Round Head
2236	3/32"	Brazier Head
2237	1/8"	Brazier Head
2238	5/32"	Brazier Head
2239	3/16"	Brazier Head
2246	1/4"	Brazier Head
2240	3/32"	Universal Head
2241	1/8"	Universal Head
2242	5/32"	Universal Head
2243	3/16"	Universal Head
2241	1/4"	Universal Head

FINISHING

SPECIALTY ROUTERS


Performance:

- Power: 0.75 hp (0.56 kw)
- Speed: 23,000 rpm
- Collet Size: 1/4" (6.5 mm)

Features:

- Lockoff Lever Throttle
- Front Exhaust
- Interchangeable Base

Model Number	Free Speed rpm	Weight		Collet Size	Height		Base Diameter	
		lb	kg		in	mm	in	mm
1971HPA	23,000	2.8	1.3	1/4"	6.5	165	3	75
1971HPB	23,000	2.8	1.3	1/4"	6.5	165	3	75
1971HPC	23,000	2.8	1.3	1/4"	6.5	165	2	50
1971HPD	23,000	2.8	1.3	1/4"	6.5	165	4	100

ASSEMBLY

TORQUE CONTROL SCREWDRIVERS

PISTOL GRIP - PUSH TO START

Model Number	Free Speed rpm	Maximum Torque (Soft Joint) in		Screw Capacity		Length mm	Side To Center	
		lb	nm	in	mm		in	mm
10T2108Q	725	5.0-50	0.5-5.5	#10	M5	2.1	1	8.8
10T2208Q	1000	5.0-35	0.4-4.0	#10	M4	2.1	1	8.8
10T2308Q	1400	5.0-25	0.5-3.0	#8	M3	2.1	1	8.8
10T2508Q	2600	5.0-14	0.5-1.5	#6	M3	1.9	0.9	7.8

DIRECT CLUTCH SCREWDRIVERS

PISTOL GRIP - TRIGGER START - TRIGGER REVERSE


Performance:

- Torque: 36in. lb (4.1Nm) - 310 in. lb (35 Nm)
- Speed: 400 rpm - 2500 rpm

Features:

- Pistol Grip, Inline, and Z-Handles
- Trigger and Lever Start
- Reversible and Non-reversible
- Rear Exhaust (2L, 2S series)

Model Number	Free Speed rpm	Weight		Maximum Torque (Soft Joint) in		Length		Side To Center	
		lb	kg	lb	nm	in	mm	in	mm
2P2301 Q	2500	2.6	1.2	65	7.3	6.8	173	0.9	23
2P2601 Q	2000	2.6	1.2	75	8.5	6.8	173	0.9	23
2P2201 Q	1200	3.1	1.4	115	13	8	203	0.9	23
2P2101 Q	700	3.1	1.4	240	27	8	203	0.9	23
2P2501 Q	400	3.1	1.4	310	35	8	203	0.9	23

ASSEMBLY

IMPACT DRIVERS

INLINE - LEVER START



- Performance:**
- Torque: 40 ft lb (54 Nm) - 180 ft lb (245 Nm)
 - Drive Size: 1/4" (6 mm) hex - 7/16" (11 mm) hex
 - Bolt Size: 1/4" (6 mm) - 5/8" (16 mm)

- Features:**
- Inline & Pistol Grip
 - Suspension Bail
 - Front Rubber Boot (Inline Models)
 - Steel Anvil Housing (Pistol Grip Models)

Model Number	Free Speed rpm	Weight		Bolt Capacity Grade		Working Torque Range		Maximum Torque	
		lb	kg	in	mm	ft lb	nm	ft lb	nm
4096 2	10,000	3.1	1.4	3/8	10	14-55	19-75	60	81
4092 1,2	10,000	2.5	1.1	5/16	8	9-1/35	12-1/48	40	54

PISTOL GRIP - TRIGGER START

Model Number	Free Speed rpm	Weight		Bolt Capacity Grade		Working Torque Range		Maximum Torque	
		lb	kg	in	mm	ft lb	nm	ft lb	nm
4070	10,000	3	1.4	5/16	8	9-1/35	12-1/48	40	54
4071	10,000	3.1	1.4	3/8	10	14-55	19-75	60	81
4034E	6,000	6.4	2.9	5/8	16	41-165	56-224	180	245

3/8" (10 MM) IMPACT WRENCHES

3/8" (10 MM) INLINE IMPACT WRENCH MODEL NO. 5035



- Twin Hammer Impact mechanism
- Lever start
- Steel anvil housing
- Built-in power regulator
- Suspension Bail
- Friction Ring Socket Retainer
- Grade 5 bolt capacity: 3/8" (10 mm)
- Drive size: 3/8" (10 mm)
- Working torque range: 5-67 ft lb (7-81 Nm)
- Max. torque: 80 ft lb (108 Nm)
- Free speed: 7000 rpm
- Blows per minute: 1200
- Weight: 2.7 lb (1.2 kg)
- Length: 6.6" (218 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)

Model Number
5035

3/8" (10 MM) IMPACT WRENCH MODEL NO. 5038B



- Reverse bias power
- Pin style impact mechanism
- Oil bath lubrication
- Built-in power regulator
- Molded comfort grip
- Friction ring socket retainer
- Grade 5 bolt capacity: 3/8" (10 mm)
- Drive size: 3/8" (10 mm)
- Working torque range: 50-160 ft lb (68-217 Nm)
- Max. torque: 185 ft lb (251 Nm)
- Free speed: 8500 rpm
- Blows per minute: 1160
- Weight: 3.7 lb (1.7 kg)
- Length: 6.3" (160 mm)
- Air inlet size: 1/4 NPT
- Recommended hose size: 3/8" (10 mm)

Model Number
5038B

ABRASIVE

VERTICAL TYPE 27 WHEEL GRINDERS

3.0 HP (2.2 KW) - GOVERNED SPEED - LOCKOFF LEVER THROTTLE

Model Number	Free Speed rpm	Weight		Wheel Capacity		Air Consumption Under Load		Length	
		lb	kg	in	mm	cfm	l/s	in	mm
V5222	4,500	9.1	4.1	9"	230	60	28	7.1	180
V5232	6,000	9.1	4.1	9"	230	60	28	7.1	180
V5233	6,000	9.1	4.1	7"	175	60	28	7.1	180

3.0 HP (2.2 KW) - GOVERNED SPEED - THUMB THROTTLE

Model Number	Free Speed rpm	Weight		Wheel Capacity		Air Consumption Under Load		Length	
		lb	kg	in	mm	cfm	l/s	in	mm
V5133	6,000	9.1	4.1	7"	175	60	28	7.1	180
V5122	4,500	9.1	4.1	9"	230	60	28	7.1	180
V5132	6,000	9.1	4.1	9"	230	60	28	7.1	180

VERTICAL TYPE 6 & 11 WHEEL GRINDERS

3.0 HP (2.2 KW)



Performance:

- Power: 3.0 hp (2.2 kw)
- Speed: 4500 rpm - 6000 rpm
- Wheel Capacity: 6" (150 mm) Diameter

Features:

- Governed Speed Control
- Lockoff Lever Throttle
- Side Exhaust
- Overspeed Shutoff Protection

Model Number	Free Speed rpm	Weight		Wheel Capacity in	Air Consumption Under Load		Air Consumption Free	
		lb	kg		cfm	l/s	Speed	Speed l/s
V5224	4,500	9.1	4.1	6"	60	28	60	28
V5234	6,000	9.1	4.1	6"	60	28	60	28

PERCUSSIVE

HAMMERS

HAMMER MODEL NO. 5274



- Spring retainer
- Accepts .401 Parker Taper shanks
- Hardened steel barrel and piston
- Aluminum pistol-grip housing
- Stroke length: 3.8" (97 mm)
- Bore diameter: 0.8" (20 mm)
- Blows per minute: 2200
- Weight 4.7 lb (2.1 kg)
- Length: 9.3" (236 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)

Model Number

5274

HAMMER MODEL NO. 5273



- Spring retainer
- Accepts .401 Parker Taper shanks
- Hardened steel barrel and piston
- Aluminum housing
- Stroke length: 2.6" (66 mm)
- Bore diameter: 0.8" (20 mm)
- Blows per minute: 3200
- Weight 3.8 lb (1.7 kg)
- Length: 7.1" (180 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)

Model Number

5273

PERCUSSIVE

HAMMERS

HAMMER KIT MODEL NO. 5272K



- Model No. 5272K
- Model No. 5273K
- Model No. 5274K
- Includes: Air Hammer
- Quick Change Retainer
- Punch
- Edging Chisel
- Cutter
- Chisel
- Molded Carry Case
- Spot Weld Breaker

Model Number

5272K

SCALERS

WELD FLUX SCALER MODEL NO. 5264



- Steel housing
- Quick-change ball-lock retainer
- Hardened steel barrel and piston
- Stroke length: 2.0" (50 mm)
- Bore diameter: 1.0" (25 mm)
- Blows per minute: 4000
- Weight 5.7 lb (2.6 kg)
- Length: 13.0" (330 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)

Model Number

5264

MINI NEEDLE SCALER MODEL NO. 5263



- Steel housing
- Hardened steel barrel and piston
- Stroke length: 2.0" (51 mm)
- Bore diameter: .07" (18 mm)
- Blows per minute: 4000
- Weight 2.6 lb (1.2 kg)
- Length: 11.4" (290 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)
- 19 - 0.12" (3 mm) Dia. x 5" (125 mm) long needles included

Model Number

5263

PISTOL GRIP NEEDLE SCALER MODEL NO. 5262



- Comfort Grip
- Hardened steel barrel and piston
- Stroke length: 3.0" (75 mm)
- Bore diameter: 0.9" (23 mm)
- Blows per minute: 3000
- Weight 5.7 lb (2.6 kg)
- Length: 10.0" (254 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)
- 12-0.12" (3 mm) Dia. x 7 (180 mm) long needles included

Model Number

5262

PERCUSSIVE

SCALERS

NEEDLE SCALER MODEL NO. 5266



- Steel housing
- Hardened steel barrel and piston
- Stroke length: 2.0" (51 mm)
- Bore diameter: 1.0" (25 mm)
- Blows per minute: 4000
- Weight 5.7 lb (2.6 kg)
- Length: 16.1" (409 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)
- 19 - 0.12" (3 mm) Dia. x 7" (180 mm) long needles included

Model Number
5266

SPECIALTY

ROUTERS

FINGER THROTTLE



Performance:

- Power: 1.5 hp (1.1 kw)
- Speed: 20,000 rpm
- Collet Size: 1/4" - 1/2"

Features:

- Twist and Finger Throttle
- 4" (100 mm) or 6" (150 mm) Diameter Base
- Side Exhaust

Model Number	Free Speed rpm	Weight		Collet Size	Height		Base Diameter	
		lb	kg		in	mm	in	mm
1980AF	20,000	6	2.7	1/4"	9.8	248	4	102
1980F	20,000	6	2.7	3/8"	9.8	248	4	102
1981F	20,000	6	2.7	1/2"	9.8	248	4	102

ASSEMBLY

STALL INLINE AND Z-HANDLE SCREWDRIVERS

INLINE - REVERSIBLE - 1/4" QUICK CHANGE DRIVE



Performance:

- Torque: 24 in. lb (2.7 Nm) - 310 in. lb (35 Nm)
- Speed: 400 rpm - 4400 rpm

Features:

- Reversible
- Lever Start
- Rear Exhaust
- Suspension Bail

Model Number	Free Speed rpm	Weight		Maximum Torque (Soft Joint) in		Length		Side To Center	
		lb	kg	lb	nm	in	mm	in	mm
1SM2407	2200	1.3	0.6	24	2.7	8.1	206	0.6	15
1SM2307	1500	1.4	0.6	30	3.4	9.1	231	0.6	15
1SM2207	1100	1.4	0.6	40	4.5	9.1	231	0.6	15
1SM2107	800	1.4	0.6	55	6.2	9.1	231	0.6	15
2L2407	4400	2.3	1	55	6.2	8.8	224	0.9	23
2L2307	2500	2.3	1	65	7.3	8.8	224	0.9	23
2L2607	2000	2.3	1	75	8.5	8.8	224	0.9	23
2L2207	1200	2.8	1.3	115	13	10	254	0.9	23
2L2107	700	2.8	1.3	240	27	10	254	0.9	23
2L2507	400	2.8	1.3	310	35	10	254	0.9	23

Z HANDLE - 1/4" QUICK CHANGE DRIVE

Model Number	Free Speed rpm	Weight		Maximum Torque (Soft Joint) in		Length		Side To Center	
		lb	kg	lb	nm	in	mm	in	mm
2S2307	2200	2.3	1	36	4.1	2.9	74	0.9	23
2S2207	1600	2.3	1	50	5.7	2.9	74	0.9	23
2S2107	1000	2.3	1	70	7.9	2.9	74	0.9	23

ASSEMBLY

ADJUSTABLE CLUTCH PISTOL GRIP SCREWDRIVERS

TRIGGER START - TRIGGER REVERSE



Performance:

- Torque: 20 in. lb (2.3Nm) - 120 in. lb (14 Nm)
- Speed: 400 rpm - 2500 rpm
- Screw size: #6 - 1/4" (M3.5 - M6)

Features:

- Reversible and Non-reversible
- Trigger Start
- Trigger or Rapid Reverse

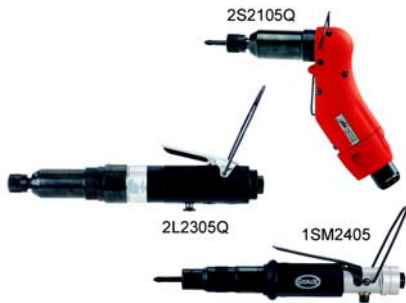
Model Number	Free Speed rpm	Maximum Torque (Soft Joint) in		Screw Capacity		Length mm	Side To Center	
		lb	nm	in	mm		in	mm
10M2405Q	2000	20	2.3	#6	M3.5	1.9	0.9	7.8
10M2305Q	1400	25	2.8	#8	M4	2.1	1	8.8
10M2205Q	1000	35	4	#10	M4	2.1	1	8.8
10M2105Q	725	50	5.7	#10	M5	2.1	1	8.8
2P2305Q	2500	45	5.1	#10	M4	2.9	1.3	8.1
2P2605Q	2000	60	6.8	#10	M5	2.9	1.3	8.1
2P2205Q	1200	90	10	1/4	M6	2.4	1.1	9.3
2P2105Q	700	120	14	1/4	M6	2.4	1.1	9.3
2P2505Q	400	120	14	1/4	M6	2.4	1.1	9.3

TRIGGER START - RAPID REVERSE

Model Number	Free Speed rpm	Maximum Torque (Soft Joint) in		Screw Capacity		Length mm	Side To Center	
		lb	nm	in	mm		in	mm
SD9APB-25AQ	2500	45	5.1	#10	M4	3	1.4	9.4
SD9APB-20AQ	2000	60	6.8	#10	M4	3	1.4	9.4
SD9APB-12AQ	1200	90	10	1/4	M6	3.5	1.5	10.6
SD9APB-7AQ	700	120	14	1/4	M6	3.5	1.5	10.6
SD9APB-4A	400	120	14	1/4	M6	3.5	1.5	10.6

ADJUSTABLE CLUTCH INLINE AND Z-HANDLE SCREWDRIVERS

INLINE - LEVER START



Performance:

- Torque: 20 in. lb (2.3Nm) - 120 in. lb (14 Nm)
- Speed: 400 rpm - 2500 rpm
- Screw size: #6 - 1/4" (M3.5 - M6)

Features:

- Reversible
- Rear Exhaust
- External Clutch Adjustment

Model Number	Free Speed rpm	Maximum Torque (Soft Joint) in		Screw Capacity		Length mm	Side To Center	
		lb	nm	in	mm		in	mm
1SM2405Q	2200	20	2.3	#6	M3.5	1.6	0.7	9.3
1SM2305Q	1500	25	2.8	#8	M4	0.8	0.4	10.3
1SM2205Q	1100	35	4	#10	M4	0.8	0.4	10.3
1SM2105Q	800	50	5.7	#10	M5	8	3.6	10.3
2L2305Q	2500	45	5.1	#10	M4	3	1.4	11.4
2L2605Q	2000	60	6.8	#10	M5	3	1.4	11.4
2L2205Q	1200	90	10	1/4	M6	3.4	1.5	12.6
2L2105Q	700	120	14	1/4	M6	3.4	1.5	12.6
2L2505Q	400	120	14	1/4	M6	3.4	1.5	12.6

Z HANDLE - LEVER START

Model Number	Free Speed rpm	Maximum Torque (Soft Joint) in		Screw Capacity		Length mm	Side To Center	
		lb	nm	in	mm		in	mm
2S2305Q	2200	30	3.4	#8	M4	2.9	1.3	5.8
2S2205Q	1600	46	5.2	#10	M4	2.9	1.3	5.8
2S2105Q	1000	60	6.8	#10	M5	2.9	1.3	5.8

ASSEMBLY

TORQUE CONTROL SCREWDRIVERS

INLINE - PUSH TO START



Performance:

- Torque: 14 in. lb (1.5Nm) - 200 in. lb (22 Nm)
- Speed: 300 rpm - 2800 rpm
- Screw size: #6 - 5/16" (M3 - M8)

Features:

- Push-to-start and Lever Start
- Reversible
- Locking Button Reverse
- External Clutch Adjustment

Model Number	Free Speed rpm	Maximum Torque (Soft Joint) in		Screw Capacity		Side To Center		
		lb	nm	in	mm	Length mm	in	mm
1ST2508Q	2800	5.0-14	0.6-1.5	#6	M3	1.4	0.6	8.3
1ST2308Q	1500	5.0-25	0.6-3.0	#8	M4	1.6	0.7	9.3
1ST2208Q	1100	5.0-35	0.6-4.0	#10	M4	1.6	0.7	9.3
1ST2108Q	800	5.0-50	0.6-5.5	#10	M5	1.6	0.7	9.3

INLINE - LEVER START

Model Number	Free Speed rpm	Maximum Torque (Soft Joint) in		Screw Capacity		Side To Center			Air Consumption cfm
		lb	nm	in	mm	Length mm	in	mm	
2L2308QTC	900	30-96	3.5-11	1/4	M6	3.7	1.7	12.1	307
2L2208QTC	500	36-144	4.0-16	1/4	M6	3.7	1.7	12.1	307
2L2108QTC	300	60-200	7.0-22	5/16	M8	3.7	1.7	12.1	307

DIRECT CLUTCH SCREWDRIVERS

PISTOL GRIP - TRIGGER START - RAPID REVERSE

Model Number	Free Speed rpm	Weight		Maximum Torque (Soft Joint) in			Length	
		lb	kg	lb	nm	in	mm	
SD9APB-25DQ	2500	2.7	1.2	50	5.7	8.2	208	
SD9APB-20DQ	2000	2.7	1.2	65	7.3	8.2	208	
SD9APB-12DQ	1200	3.2	1.5	100	11	9.4	239	
SD9APB-7DQ	700	3.2	1.5	180	20	9.4	239	
SD9APB-4DQ	400	3.2	1.5	300	34	9.4	239	

INLINE - LEVER START - REVERSIBLE

Model Number	Free Speed rpm	Weight		Maximum Torque (Soft Joint) in			Length	
		lb	kg	lb	nm	in	mm	
2L2301Q	2500	2.6	1.2	65	7.3	6.8	173	

INLINE - LEVER START - NON-REVERSIBLE

Model Number	Free Speed rpm	Weight		Maximum Torque (Soft Joint) in		Length		Side To Center	
		lb	kg	lb	nm	in	mm	in	mm
2L1201Q	1600	2.9	1.3	145	16	10.5	267	0.9	23

Z-HANDLE - LEVER START - REVERSIBLE

Model Number	Free Speed rpm	Weight		Maximum Torque (Soft Joint) in		Length		Side To Center	
		lb	kg	lb	nm	in	mm	in	mm
2S2301	2200	2.6	1.2	36	4.1	4.3	109	0.9	23
2S2201	1600	2.6	1.2	50	5.7	4.3	109	0.9	23
2S2101	1000	2.6	1.2	70	7.9	4.3	109	0.9	23

ASSEMBLY

RIGHT ANGLE SCREWDRIVERS

STALL DRIVE



Performance:

- Torque: 20 in. lb (2.3 Nm) - 310 in. lb (35 Nm)
- Speed: 400 rpm - 2500 rpm

Features:

- Stall drive and Adjustable Clutch
- Button Reverse
- Lever Start
- Rear Exhaust

Model Number	Free Speed rpm	Weight		Maximum Torque (Soft Joint) in		Length	
		lb	kg	lb	nm	in	mm
1AM2401	2200	1.4	0.6	20	2.3	9.1	231
1AM2301	1500	1.5	0.7	25	2.8	10	254
1AM2201	1100	1.5	0.7	35	4	10	254
1AM2101	800	1.5	0.7	50	5.7	10	254
2A2301Q	2500	3.4	1.5	65	7.3	11.5	292
2A2601Q	2000	3.4	1.5	75	8.5	11.5	292
2A2201Q	1200	3.8	1.7	115	13	12.8	325
2A2101Q	700	3.8	1.7	240	27.1	12.8	325

STALL DRIVE - LOW PROFILE HEAD

Model Number	Free Speed rpm	Weight		Maximum Torque (Soft Joint) in		Length		Side To Center	
		lb	kg	lb	nm	in	mm	in	mm
2A2351	2500	3.3	1.5	65	7.3	11.5	292	0.5	13
2A2651	2000	3.3	1.5	75	8.5	11.5	292	0.5	13
2A2251	1200	3.6	1.6	115	13	12.8	325	0.5	13
2A2151	700	3.6	1.6	240	27.1	12.8	325	0.5	13
2A2551	400	3.6	1.6	310	35	12.8	325	0.5	13

ADJUSTABLE CLUTCH

Model Number	Free Speed rpm	Weight		Maximum Torque (Soft Joint) in		Length		Side To Center	
		lb	kg	lb	nm	in	mm	in	mm
1AM2405	2200	1.7	0.8	20	2.3	10.6	269	0.3	8
1AM2305	1500	1.9	0.9	25	2.8	11.8	300	0.3	8
1AM2205	1100	1.9	0.9	35	4	11.8	300	0.3	8
1AM2105	800	1.9	0.9	50	5.7	11.8	300	0.3	8
2A2205	700	4.5	2	120	13.6	13.8	351	0.7	18

RIGHT ANGLE NUTRUNNERS

TORQUE CONTROL CLUTCH



Performance:

- Torque: 20 in. lb (2.3 Nm) - 600 in. lb (68 Nm)
- Speed: 300 rpm - 2200 rpm
- Bolt Size: #6 - 1/2" (M3.5 - M10)

Features:

- Reversible
- Lever Start
- Rear and Front Exhaust

Model Number	Free Speed rpm	Weight		Drive Size		Bolt Capacity		Maximum Torque (Soft Joint) in	
		lb	kg	in	mm	in	mm	lb	nm
2A2308BTC	750	4.7	2.1	3/8	10	1/4	M6	108	12
2A2208BTC	450	4.7	2.1	3/8	10	5/16	M8	156	18
2A2108BTC	250	4.7	2.1	3/8	10	3/8	M10	240	27
3A2208	480	7.4	3.4	1/2	13	3/8	M10	294	33
3A2108	300	7.4	3.4	1/2	13	3/8	M10	360	41

ADJUSTABLE CLUTCH

Model Number	Free Speed rpm	Weight		Drive Size		Bolt Capacity		Maximum Torque (Soft Joint) in	
		lb	Kg	in	mm	in	mm	lb	nm
1AM2106	800	1.9	0.9	1/4	6	#10	M4.5	50	5.7

ASSEMBLY

RIGHT ANGLE NUTRUNNERS

DIRECT CLUTCH

Model Number	Free Speed rpm	Weight		Drive Size		Bolt Capacity		Maximum Torque (Soft Joint) in	
		lb	kg	in	mm	in	mm	lb	nm
1AM2402	2200	1.4	0.6	1/4	6	#8	M4	20	2.3

STALL DRIVE

Model Number	Free Speed rpm	Weight		Drive Size		Bolt Capacity		Maximum Torque (Soft Joint) in	
		lb	kg	in	mm	in	mm	lb	nm
3A2104	300	5.5	2.5	1/2	13	7/16	M11	600	68

CLUTCH SPRINGS

SD9A, 2 Series Adjustable Clutch



Model Number	Torque Range		Color
	ft lb	Nm	
41284	<25	<2.8	Green
21427	>25	>2.8	N/A

1 Series Adjustable Clutch

Model Number	Torque Range		Color
	ft lb	Nm	
66048	30-50	3.4-5.7	Silver
66049	15-30	1.7-4.0	Blue
66050	2.0-20	0.22-2.3	Green

2 Series Torque Control Clutch

Model Number	Torque Range		Color
	ft lb	Nm	
65048	60-280	6.8-32	Silver
65049	36-180	4.1-20	Blue
65050	30-120	3.4-14	Green

COMFORT GRIPS



Model Number	For Use On
66520	1 series pistol grip
67806	SD9A series
66193	1 series inline (2800 rpm)
66124	1 series inline (except 2800 rpm)

REMOTE EXHAUST KITS



Model Number	For Use On
3301	1 series pistol grip
3302	1 series inline
3303	Z-Handle series

ASSEMBLY

SLOTTED HEAD BITS WITH FINDERS

1/4" HEX DRIVE



Model Number	Screw Size	Bite Only	Finder Only	Length	
				in	mm
2725	4, 5, 6	2733	2729	3-3/4	95
2726	4, 5, 6	2735	2729	6-3/4	170
2727	7, 8	2737	2744	3-3/4	95
2728	7, 8	2739	2744	6-3/4	170
2499	9, 10	2740	2745	3-3/4	95
2730	12	2741	2746	3-3/4	95
2731	12, 14	2743	2747	3-7/8	98

7/16" HEX DRIVE



Model Number	Screw Size	Bite Only	Length	
			in	mm
2506	10, 12	2507	3-7/8	98
2508	12, 14	2509	3-7/8	98
2510	14, 16	2511	4-1/8	105
2512	16, 20	2513	4-1/8	105
2514	20, 22	2515	4-1/8	105

3/8" (10 MM) AND 1/2" (13 MM) IMPACT WRENCHES

INLINE



Performance:

- Torque: 78 ft lb (106 Nm) - 600 ft lb (813 Nm)
- Drive Size: 3/8" (10 mm) - 1/2" (13 mm) Sq. Drive
- Bolt Size: 3/8" (10 mm) - 7/8" (22 mm)

Features:

- Pistol Grip & Inline
- Steel Anvil Housing (Pistol Grip Models)
- Suspension Bail

Model Number	Free Speed rpm	Weight		Drive Size		Bolt Capacity Grade		Working Torque Range	
		lb	kg	in	mm	in	mm	ft lb	nm
4090 3	10,000	2.5	1.1	3/8	10	3/8	10	15-60	20-80
4093 3	10,000	2.5	1.1	3/8	10	3/8	10	15-60	20-80
4091 2,3	10,000	2.8	1.3	1/2	13	3/8	10	15-60	20-80
4094 3	10,000	2.8	1.3	1/2	13	3/8	10	15-60	20-80

PISTOL GRIP

Model Number	Free Speed rpm	Weight		Drive Size		Bolt Capacity Grade		Working Torque Range	
		lb	kg	in	mm	in	mm	ft lb	nm
4073	10,000	3	1.4	3/8	10	3/8	10	15-60	20-80
4074	10,000	3	1.4	1/2	13	3/8	10	15-60	20-80
4035	6,500	6.6	3	1/2	13	7/8	22	80-500	92-678
4035B 1	6,500	6.8	3.1	1/2	13	7/8	22	80-500	92-678
4035C	6,500	6.6	3	1/2	13	7/8	22	80-500	92-678

3/4" (19 MM) AND 1" (25 MM) IMPACT WRENCHES

PISTOL GRIP



Performance:

- Torque: 935 ft lb (1268 Nm) - 1600 ft lb (2169 Nm)
- Drive Size: 3/4" (19 mm) - 1" (25 mm) Sq. Drive & #5 Spline
- Bolt Size: 3/4" (19 mm) - 1-3/8" (35 mm)

Features:

- Pistol Grip & D Handle
- Inside & Outside Trigger (D Handle Models)
- Steel Anvil Housing
- Suspension Bail

Model Number	Free Speed rpm	Weight		Drive Size		Bolt Capacity Grade		Working Torque Range	
		lb	kg	in	mm	in	mm	ft lb	nm
4038	4,500	12.3	5.6	3/4	19	3/4	19	210-850	285-1150
4039	4,500	12.3	5.6	3/4	19	3/4	19	210-850	285-1150
4040 1	4,500	12.3	5.6	3/4	19	3/4	19	210-850	285-1150
4038-1	4,500	12.3	5.6	3/4	19	1	25	210-850	285-1150

ASSEMBLY

3/4" (19 MM) AND 1" (25 MM) IMPACT WRENCHES

D-HANDLE - INSIDE TRIGGER

Model Number	Free Speed rpm	Weight		Drive Size		Bolt Capacity Grade		Working Torque Range	
		lb	kg	in	mm	in	mm	ft lb	nm
4055	4,500	26	11.8	1-3/8	35	1	25	375-1500	510-2035
4056 1	4,500	30	13.6	1-3/8	35	1	25	375-1500	510-2035
4057	4,500	26	11.8	1-3/8	35	#5 Spline		375-1500	510-2035

D-HANDLE - OUTSIDE TRIGGER

Model Number	Free Speed rpm	Weight		Drive Size		Bolt Capacity Grade		Working Torque Range	
		lb	kg	in	mm	in	mm	ft lb	nm
4058	4,500	26	11.8	1-3/8	35	1	25	375-1500	510-2035

3/8" (10 MM) IMPACT WRENCHES

3/8" (10 MM) BUTTERFLY IMPACT WRENCH MODEL NO. 5040



- Built-in power regulator
- Swivel air inlet bushing
- Vinyl boot
- Friction ring socket retainer
- Grade 5 bolt capacity: 3/8" (10 mm)
- Drive size: 3/8" (10 mm)
- Working torque range: 5-50 ft lb (7-68 Nm)
- Max. torque: 55 ft lb (75 Nm)
- Free speed: 10,000 rpm
- Blows per minute: 1200
- Weight: 1.9 lb (0.9 kg)
- Length: 5.7" (145 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)

Model Number
5040

3/8" (10 MM) IMPACT WRENCH MODEL NO. 5039B



- Reverse bias power
- Pin style impact mechanism
- Oil bath lubrication
- Molded comfort grip
- Built-in power regulator
- Pin socket retainer
- Grade 5 bolt capacity: 3/8" (10 mm)
- Drive size: 3/8" (10 mm)
- Working torque: 10-160 ft lb (68-217 Nm)
- Max. torque: 180 ft lb (251 Nm)
- Free speed: 8500 rpm
- Blows per minute: 1,160
- Weight: 3.7 lb (1.7 kg)
- Length: 6.3" (160 mm)
- Air consumption: 4 cfm (2 l/s)
- Recommended hose size: 3/8" (10 mm)

Model Number
5039B

1/2" (13 MM) IMPACT WRENCHES

1/2" (13 MM) IMPACT WRENCH MODEL NO. 5000



- Twin hammer impact mechanism
- Front exhaust
- Built-in power regulator
- Friction ring socket retainer
- Grade 5 bolt capacity: 5/8" (16 mm)
- Drive size: 1/2" (13 mm)
- Working torque: 25-300 ft lb (34-407 Nm)
- Max. torque: 425 ft lb (576 Nm)
- Free speed: 8000 rpm
- Blows per minute: 1,200
- Weight: 5.6 lb (2.5 kg)
- Length: 7.4" (188 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)

Model Number
5000

ASSEMBLY

1/2" (13 MM) IMPACT WRENCHES

1/2" (13 MM) IMPACT WRENCH MODEL NO. 5250A



- Reverse bias power
- Pin style impact mechanism
- Oil bath lubrication
- Built-in power regulator
- Molded comfort grip
- Friction ring socket retainer
- Grade 5 bolt capacity: 5/8" (16 mm)
- Drive size: 1/2" (13 mm)
- Working torque: 50-375 ft lb (68-508 Nm)
- Max. torque: 525 ft lb (712 Nm)
- Free speed: 7000 rpm
- Blows per minute: 985
- Weight: 6.0 lb (2.7 kg)
- Length: 7.7" (196 mm)
- Recommended hose size: 3/8" (10 mm)

Model Number
5250A

1/2" (13 MM) IMPACT WRENCH MODEL NO. 5050A



- Reverse bias power
- Twin hammer impact mechanism
- Built-in power regulator
- Down handle exhaust
- Steel anvil housing
- Friction ring socket retainer
- Grade 5 bolt capacity: 5/8" (16 mm)
- Drive size: 1/2" (13 mm)
- Working torque: 50-350 ft lb (68-474 Nm)
- Max. torque: 475 ft lb (644 Nm)
- Free speed: 8,000 rpm
- Blows per minute: 1100
- Weight: 5.6 lb (2.5 kg)
- Length: 7.4" (188 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)

Model Number
5050A

1/2" (13 MM) IMPACT WRENCH MODEL NO. 5051A



- Reverse bias power
- Twin hammer impact mechanism
- Built-in power regulator
- Down handle exhaust
- Steel anvil housing
- Pin socket retainer
- Grade 5 bolt capacity: 1/2" (13 mm)
- Drive size: 1/2" (13 mm)
- Working torque: 50-350 ft lb (68-474 Nm)
- Max. torque: 475 ft lb (644 Nm)
- Free speed: 8000 rpm
- Blows per minute: 1,100
- Weight: 5.6 lb (2.5 kg)
- Length: 7.4" (188 mm)
- Recommended hose size: 3/8" (10 mm)

Model Number
5051A

ASSEMBLY

1/2" (13 MM) IMPACT WRENCHES

1/2" (13 MM) IMPACT WRENCH MODEL NO. 5050AL



- Reverse bias power
- Twin hammer impact mechanism
- Oil bath lubrication
- 2" extended anvil
- Down handle exhaust
- Built-in power regulator
- Friction ring socket retainer
- Grade 5 bolt capacity: 5/8" (16 mm)
- Drive size: 1/2" (13 mm)
- Working torque: 50-350 ft lb (68-474 Nm)
- Max. torque: 450 ft lb (610 Nm)
- Free speed: 8000 rpm
- Blows per minute: 1,100
- Weight: 5.8 lb (2.6 kg)
- Length: 9.4" (239 mm)
- Recommended hose size: 3/8" (10 mm)

Model Number

5050AL

3/4" (19 MM) IMPACT WRENCHES

3/4" (19 MM) IMPACT WRENCH MODEL NO. 5075A



- Roller cam impact mechanism
- Built-in power regulator
- Aluminum housing
- Steel anvil housing
- Friction ring socket retainer
- Grade 5 bolt capacity: 3/4" (19 mm)
- Drive size: 3/4" (19 mm)
- Working torque: 300-800 ft lb (34-1084 Nm)
- Max. torque: 1200 ft lb (1627 Nm)
- Free speed: 4500 rpm
- Blows per minute: 870
- Weight: 12.6 lb (5.7 kg)
- Length: 10.2" (259 mm)
- Recommended hose size: 1/2" (13 mm)

Model Number

5075A

3/4" (19 MM) IMPACT WRENCH CATALOG NO. 5076A



- Roller cam impact mechanism
- Built-in power regulator
- Steel anvil housing
- Friction ring and thru-hole socket retainer
- Grade 5 bolt capacity: 3/4" (19 mm)
- Drive size: 3/4" (19 mm)
- Working torque: 75-500 ft lb (101-678 Nm)
- Max. torque: 700 ft lb (949 Nm)
- Free speed: 4500 rpm
- Blows per minute: 870
- Weight: 12.1 lb (5.5 kg)
- Length: 10.0" (254 mm)
- Recommended hose size: 1/2" (13 mm)

Model Number

5076A

ASSEMBLY

3/4" (19 MM) IMPACT WRENCHES

3/4" (19 MM) IMPACT WRENCH MODEL NO. 5075AL



- Roller cam impact mechanism
- 6" (152 mm) extended anvil
- Oil bath lubrication
- Molded comfort grip
- Built-in power regulator
- Friction ring socket retainer
- Grade 5 bolt capacity: 3/4" (19 mm)
- Drive size: 3/4" (19 mm)
- Working torque: 300-800 ft lb (34-1084 Nm)
- Max. torque: 1200 ft lb (1627 Nm)
- Free speed: 4500 rpm
- Blows per minute: 870
- Weight: 15.7 lb (7.1 kg)
- Length: 16.2" (411 mm)
- Recommended hose size: 1/2" (13 mm)

Model Number
5075AL

1" (25 MM) IMPACT WRENCHES

1" (25 MM) IMPACT WRENCH . 5090A



- Pin impact mechanism
- Oil bath lubrication
- Built-in speed regulator
- Support handle
- Friction Ring and Thru hole socket retainer
- Grade 5 bolt capacity: 1-3/8" (35 mm)
- Drive size: 1" (25 mm)
- Working torque: 600-1000 ft lb (813-1356 Nm)
- Max. torque: 1500 ft lb (2034 Nm)
- Free speed: 3800 rpm
- Blows per minute: 500
- Weight: 22.0 lb (10.0 kg)
- Length: 11.6" (295 mm)
- Recommended hose size: 3/4" (19 mm)

Model Number
5090A

1" (25 MM)IMPACT WRENCH CATALOG NO. 5092



- Pin impact mechanism
- Oil bath lubrication
- Support handle
- Friction Ring and Thru hole socket retainer
- Grade 5 bolt capacity: 1-1/2" (38 mm)
- Drive size: 1" (25 mm)
- Working torque: 600-1400 ft lb (813-1898 Nm)
- Max. torque: 2800 ft lb (3797 Nm)
- Free speed: 4000 rpm
- Blows per minute: 500
- Weight: 24.9 lb (11.3 kg)
- Length: 11.9" (302 mm)
- Recommended hose size: 1/2" (13 mm)

Model Number
5092

ASSEMBLY

1" (25 MM) IMPACT WRENCHES

1" (25 MM) IMPACT WRENCH CATALOG NO. 5090AL



- Pin impact mechanism
- Oil bath lubrication
- 6" extended anvil
- Built-in speed regulator
- Support handle
- Friction Ring and Thru hole socket retainer
- Grade 5 bolt capacity: 1-3/8" (35 mm)
- Drive size: 1" (25 mm)
- Working torque: 500-900 ft lb (675-1220 Nm)
- Max. torque: 1500 ft lb (2034 Nm)
- Free speed: 3800 rpm
- Blows per minute: 500
- Weight: 24.7 lb (11.2 kg)
- Length: 16.5" (419 mm)
- Recommended hose size: 3/4" (19 mm)

Model Number

5090AL

1" (25 MM) EXTENDED ANVIL IMPACT WRENCH CATALOG NO. 5092L



- Pin impact mechanism
- Oil bath lubrication
- 6" extended anvil
- Support handle
- Friction Ring and Thru hole socket retainer
- Grade 5 bolt capacity: 1-1/2" (38 mm)
- Drive size: 1" (25 mm)
- Working torque: 500-1300 ft lb (675-1762 Nm)
- Max. torque: 2500 ft lb (3390 Nm)
- Free speed: 4000 rpm
- Blows per minute: 500
- Weight: 27.3 lb (12.4 kg)
- Length: 16.9" (429 mm)
- Recommended hose size: 1/2" (13 mm)

Model Number

5092L

1" (25 MM) IMPACT WRENCH CATALOG NO. 5091A



- Pin impact mechanism
- Oil bath lubrication
- Built-in speed regulator
- Support handle
- Friction Ring and Thru hole socket retainer
- Grade 5 bolt capacity: 1-3/8" (35 mm)
- Drive size: 1" (25 mm)
- Working torque: 500-1200 ft lb (675-1627 Nm)
- Max. torque: 1500 ft lb (2034 Nm)
- Free speed: 4000 rpm
- Blows per minute: 785
- Weight: 16.8 lb (7.6 kg)
- Length: 14.4" (366 mm)
- Recommended hose size: 3/4" (19 mm)

Model Number

5091A

1" (25 MM) IMPACT WRENCH CATALOG NO. 5093



- Pin impact mechanism
- Oil bath lubrication
- Support handle
- Friction Ring and Thru hole socket retainer
- Grade 5 bolt capacity: 1-1/2" (38 mm)
- Drive size: 1" (25 mm)
- Working torque: 600-1400 ft lb (813-1898 Nm)
- Max. torque: 3000 ft lb (4068 Nm)
- Free speed: 4000 rpm
- Blows per minute: 500
- Weight: 25.6 lb (11.6 kg)
- Length: 15.1" (384 mm)
- Recommended hose size: 1/2" (13 mm)

Model Number

5093

ASSEMBLY

1" (25 MM) IMPACT WRENCHES

1" (25 MM) IMPACT WRENCH CATALOG NO. 5091AL



- Pin impact mechanism
- 6" extended anvil
- Oil bath lubrication
- Built-in speed regulator
- Support handle
- Friction Ring and Thru hole socket retainer
- Grade 5 bolt capacity: 1-3/8" (35 mm)
- Drive size: 1" (25 mm)
- Working torque: 450-1200 ft lb (610-1627 Nm)
- Max. torque: 1500 ft lb (2034 Nm)
- Free speed: 4000 rpm
- Blows per minute: 785
- Weight: 18.5 lb (8.4 kg)
- Length: 19.3" (490 mm)
- Recommended hose size: 3/4" (19 mm)

Model Number
5091AL

1" (25 MM) IMPACT WRENCH CATALOG NO. 5093L



- Pin impact mechanism
- 6" extended anvil
- Oil bath lubrication
- Support handle
- Friction Ring and Thru hole socket retainer
- Grade 5 bolt capacity: 1-1/2" (38 mm)
- Drive size: 1" (25 mm)
- Working torque: 500-1300 ft lb (675-1762 Nm)
- Max. torque: 2700 ft lb (3661 Nm)
- Free speed: 4000 rpm
- Blows per minute: 500
- Weight: 28.0 lb (12.7 kg)
- Length: 21.1" (536 mm)
- Recommended hose size: 1/2" (13 mm)

Model Number
5093L

IMPACT WRENCH RIGHT ANGLE HEAD ADAPTERS



2330

Model Number	For Use On	Square Drive Input	Square Drive Output
2330	4, 7, 10, 13, 16, 19, 22, 25, 27, 30, 33, 36, 39, 42, 45, 48, 51, 54, 57, 60, 63, 66, 69, 72, 75, 78, 81, 84, 87, 90, 93	3/8"	3/8"
2331	1/2", 5/8", 3/4", 7/8", 1"	1/2"	1/2"

QUICK CHANGE CHUCK



Adapts male square drive to female hex quick change

Model Number	Drive Size Input (Square Drive)	Drive Size Input (Square Drive) Output (Hex)	Length in
2530	3/8"	1/4"	1-13/16"
2520	1/2"	7/16"	2-1/4"

UNIVERSAL JOINT



3/8" female to 3/8" male square drive

Model Number
2751

ASSEMBLY

IMPACT SOCKETS



Model Number	Size Across Flats	Standard (6-Point)						Magnetic (6-Point)	
		1/4"	3/8"	1/2"	5/8"	3/4"	1"	1/4"	3/8"
Impact 1/4	1/4"	2608	2608M						
Impact 5/16	5/16"	2610	2610M	3610	3610M				
Impact 3/8	3/8"	2612		3612	3612M	4612			
Impact 7/16	7/16"			3614		4614			
Impact 1/2	1/2"			3616		4616			
Impact 9/16	9/16"			3618		4818	5618		
Impact 5/8	5/8"			3620		4620	5620	6620	
Impact 11/16	11/16"			3622		4622			
Impact 3/4	3/4"					4624	5624	6624	8624
Impact 13/16	13/16"					4626		6626	
Impact 7/8	7/8"					4628	5628	6628	
Impact 15/16	15/16"					4630	5630	6630	8630
Impact 1	1"					4632		6632	8632
Impact 1-1/16	1-1/16"					4634		6634	8634
Impact 1-1/8	1-1/8"					4636	5636	6636	8636
Impact 1-3/16	1-3/16"					4638		6638	
Impact 1-1/4	1-1/4"					4640	5640	6640	8640
Impact 1-5/16	1-5/16"							6642	8642
Impact 1-3/8	1-3/8"							6644	8644

INSERT BIT ADAPTERS



2534

Model Number	Drive Size
2534	3/8"
2585	1/2"

1/4" INSERT BITS

SLOTTED HEAD

Model Number	Screw Size	Length in	Length mm
2577	4F - 5R	1	38
2580	6F - 8R	1	38
2581	8F - 10R	1-1/2	38
2582	10F - 12R	1-1/2	38

SOCKET HEAD

Model Number	Hex Size	Length in	Length mm
2950	3/32"	1	25
2535	1/8"	1	25
2536	5/32"	1-15/16	33
2567	3/16"	1-15/16	33

5/16" INSERT BITS

PHILLIPS HEAD

Model Number	Point Size	Length in	Length mm
2587	2	1-1/4	32
2588	3	1-1/4	32
2589	4	1-1/4	32

ASSEMBLY

5/16" INSERT BITS

SLOTTED HEAD

Model Number	Screw Size	Length in	Length mm
2594	8-10	1-1/2	38
2595	10-12	1-1/2	38
2596	12-14	1-1/2	38
2597	14 - 16	1-1/2	38

1/4" SCREWDRIVER BITS

PHILLIPS HEAD

Model Number	Point Size	Length in	Length mm
2716	1	1-15/16	49
2717	1	3-1/2	89
2718	2	1-15/16	49
2719	2	3-1/2	89
2720	3	1-15/16	49

SLOTTED HEAD

Model Number	Screw Size	Length in	Length mm
2733	4, 5, 6	3-3/4	95
2737	7, 8	3-3/4	95
2740	9, 10	3-3/4	95
2741	12	3-3/4	95
2743	12, 14	3-7/8	98

SOCKET HEAD

Model Number	Hex Size	Length in	Length mm
2722	8-Jan	1-15/16	49
2780	Sep-64	1-15/16	49
2723	May-32	1-15/16	49
2724	16-Mar	1-15/16	49

TORX

Model Number	Torx Number	Length in	Length mm
2939	T30	1-15/16	49
2934	T10	1-15/16	49
2935	T15	1-15/16	49
2936	T20	1-15/16	49
2937	T25	1-15/16	49
2938	T27	1-15/16	49

ABRASIVE

STRAIGHT DIE GRINDERS

0.75 HP (0.55 KW) - LEVER THROTTLE

Model Number	Free Speed rpm	Weight		Collet Size	Exhaust	Length		Air Consumption	
		lb	kg			in	mm	cfm	i/s
1954HP	23,000	1.4	0.6	1/4"	Front	6.5	165	30	14
1955HP	23,000	1.4	0.6	3/8"	Front	6.5	165	30	14
1962	23,000	1.9	0.9	1/4"	Rear	7.8	198	30	14
1956HP	18,000	1.4	0.6	1/4"	Front	6.5	165	30	14
2L1940	18,000	2	0.9	1/4"	Rear	9.1	231	30	14

0.75 HP (0.55 KW) - LEVER THROTTLE - EXTENDED

Model Number	Free Speed rpm	Weight		Collet Size	Exhaust	Length		Air Consumption	
		lb	kg			in	mm	cfm	i/s
1954HPEXT	23,000	1.7	0.8	1/4"	Front	4.4	112	30	14
1956HPEXT	18,000	1.7	0.8	1/4"	Front	4.4	112	30	14

1.5 HP (1.1 KW) - TWIST THROTTLE

Model Number	Free Speed rpm	Weight		Collet Size	Exhaust	Length		Air Consumption	
		lb	kg			in	mm	cfm	i/s
19851	20,000	4.3	2	1/4"	Side	7.6	193	38	18

ABRASIVE

RIGHT ANGLE DIE GRINDERS

0.33 HP (0.25 KW) - LEVER THROTTLE



- Performance:**
- Power: 0.33 hp (0.25 kw) - 0.80 hp (0.60 kw)
 - Speed: 12,000 rpm - 20,000 rpm
 - Collet Size: 1/4"
- Features:**
- Lockoff Lever
 - Front & Rear Exhaust
 - Built-in Speed Control

Model Number	Free Speed rpm	Weight		Collet Size	Exhaust	Length		Air Consumption	
		lb	kg			in	mm	cfm	i/s
1DA211	20,000	1.2	0.5	1/4"	Front	6	152	17	8
1DA221	20,000	1.2	0.5	1/4"	Rear	6	152	17	8
1DA311	12,000	1.2	0.5	1/4"	Front	6	152	17	8
1DA321	12,000	1.2	0.5	1/4"	Rear	6	152	17	8

0.80 HP (0.60 KW) - LEVER THROTTLE

Model Number	Free Speed rpm	Weight		Collet Size	Exhaust	Length		Air Consumption	
		lb	kg			in	mm	cfm	i/s
1964	18,000	2.3	1	1/4"	Rear	8	203	32	15
1963	12,000	2.3	1	1/4"	Rear	8	203	32	15

RIGHT ANGLE TYPE 27 WHEEL GRINDERS

0.80 HP (0.60 KW) - LOCKOFF LEVER THROTTLE



- Performance:**
- Power: 0.80 hp (0.60 kw) - 1.0 hp (0.75 kw)
 - Speed: 6000 rpm - 18,000 rpm
 - Wheel Capacity: 3" (75 mm) - 7" (175 mm) Diameter
- Features:**
- Governed & Non-governed
 - Lockoff Lever & Thumb Throttle
 - Side Exhaust

Model Number	Free Speed rpm	Weight		Wheel Capacity		Air Consumption Under Load		Length	
		lb	kg	in	mm	cfm	i/s	in	mm
1966	18,000	2.6	1.2	3"	75	25	12	8	203
1967	12,000	2.8	1.3	4"	100	25	12	8	203
1968	12,000	2.8	1.3	4 1/2"	115	25	12	8	203

1.0 HP (0.75 KW) - GOVERNED SPEED - LOCKOFF LEVER THROTTLE

Model Number	Free Speed rpm	Weight		Wheel Capacity		Air Consumption Under Load		Length	
		lb	kg	in	mm	cfm	i/s	in	mm
1285L	6,000	5.9	2.7	7"	175	35	17	12.4	315

1.0 HP (0.75 KW) - GOVERNED SPEED - THUMB THROTTLE

Model Number	Free Speed rpm	Weight		Wheel Capacity		Air Consumption Under Load		Length	
		lb	kg	in	mm	cfm	i/s	in	mm
1285	6,000	5.9	2.7	7"	175	35	17	12.4	315

ABRASIVE

VERTICAL TYPE 27 WHEEL GRINDERS

1.0 HP (0.75 KW) - NON-GOVERNED SPEED - LEVER THROTTLE



- Performance:**
- Power: 1.0 hp (0.75 kw) - 3.0 hp (2.2 kw)
 - Speed: 4500 rpm - 6000 rpm
 - Wheel Capacity: 7" (175 mm) - 9" (225 mm) diameter
- Features:**
- Governed & Non-governed
 - Lockoff Lever & Thumb Throttle
 - Side Exhaust
 - Overspeed Shutoff Protection (V series)

Model Number	Free Speed rpm	Weight		Wheel Capacity		Air Consumption Under Load		Length		Air Consumption cfm
		lb	kg	in	mm	cfm	i/s	in	mm	
1291L	6,000	5	2.3	7"	175	38	18	7.2	183	30

1.0 HP (0.75 KW) - NON-GOVERNED SPEED - THUMB THROTTLE

Model Number	Free Speed rpm	Weight		Wheel Capacity		Air Consumption Under Load		Length	
		lb	kg	in	mm	cfm	i/s	in	mm
1291	5,000	5	2.3	7"	175	38	18	7.2	183

STRAIGHT DIE GRINDERS

PENCIL DIE GRINDER MODEL NO. 5978



- Twist throttle
- Remote exhaust
- Built-in speed regulator
- Power: 0.1 hp (0.07 kw)
- Free speed: 54,000 rpm
- Collet size: 1/8"
- Weight: 0.25 lb (0.11 kg)
- Length: 5.3" (135 mm)
- 60" (1,524 mm) hose with hose protector included

Model Number
5978

LIGHT DUTY DIE GRINDER MODEL NO. 5053



- Lockoff lever throttle
- Front exhaust
- Built-in speed regulator
- Aluminum housing
- Power: 0.3 hp (0.2 kw)
- Free speed: 26,000 rpm
- Collet size: 1/4"
- Weight: 0.8 lb (0.4 kg)
- Length: 5.3" (135 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)

Model Number
5053

PENCIL DIE GRINDER MODEL NO. 5979



- Pencil Die Grinder
Model No. 5979
- Twist throttle
 - Remote exhaust
 - Built-in speed regulator
 - Power: 0.1 hp (0.07 kw)
 - Free speed: 70,000 rpm
 - Collet size: 1/8"
 - Weight: 0.25 lb (0.11 kg)
 - Length: 5.3" (135 mm)
 - 60" (1,524 mm) hose with hose protector included

Model Number
5979

ABRASIVE

STRAIGHT DIE GRINDERS

MEDIUM DUTY DIE GRINDER MODEL NO. 5054



- Lockoff lever throttle
- Rear exhaust
- Built-in speed regulator
- Aluminum housing
- Power: 0.5 hp (0.4 kw)
- Free speed: 22,000 rpm
- Collet size: 1/4"
- Weight: 1.3 lb (0.6 kg)
- Length: 6.5" (165 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)

Model Number

5054

DIE GRINDER MODEL NO. 5058B



- Composite housing
- Lockoff lever throttle
- Rear exhaust
- Built-in speed regulator
- Power: 0.3 hp (0.2 kw)
- Free speed: 25,000 rpm
- Collet size: 1/4"
- Weight: 1.0 lb (0.5 kg)
- Length: 6.5" (165 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)

Model Number

5058B

HEAVY DUTY DIE GRINDER MODEL NO. 5062

- Ribbed aluminum housing
- Lockoff lever throttle
- Rear exhaust
- Built-in speed regulator
- Power: 0.3 hp (0.2 kw)
- Free speed: 26,000 rpm
- Collet size: 1/4"
- Weight: 1.1 lb (0.5 kg)
- Length: 5.5" (140 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)

Model Number

5062

RIGHT ANGLE DIE GRINDERS

RIGHT ANGLE LIGHT DUTY DIE GRINDER MODEL NO. 5055



- Lockoff lever throttle
- Built-in speed regulator
- Aluminum housing
- Power: 0.3 hp (0.2 kw)
- Free speed: 20,000 rpm
- Collet size: 1/4"
- Weight: 1.1 lb (0.5 kg)
- Length: 5.5" (140 mm)
- Head Height: 2.9" (74 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)

Model Number

5055

ABRASIVE

RIGHT ANGLE DIE GRINDERS

RIGHT ANGLE DIE GRINDER MODEL NO. 5059B



- Composite housing
- Lockoff lever throttle
- Rear exhaust
- Built-in speed regulator
- Power: 0.3 hp (0.2 kw)
- Free speed: 20,000 rpm
- Collet size: 1/4"
- Weight: 1.3 lb (0.6 kg)
- Length: 6.5" (165 mm)
- Head Height: 3.0" (76 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)

Model Number
5059B

RIGHT ANGLE HEAVY DUTY DIE GRINDER MODEL NO. 5063



- Ribbed aluminum housing
- Lockoff lever throttle
- Rear exhaust
- Built-in speed regulator
- Power: 0.3 hp (0.2 kw)
- Free speed: 20,000 rpm
- Collet size: 1/4"
- Weight: 1.1 lb (0.5 kg)
- Length: 5.5" (140 mm)
- Head Height: 3.0" (76 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)

Model Number
5063

HEAVY DUTY RIGHT ANGLE DIE GRINDER MODEL NO. 5064



- Ribbed aluminum housing
- Built-in speed regulator
- Lockoff lever throttle
- Rear exhaust
- Power: 0.5 hp (0.4 kw)
- Free speed: 16,000 rpm
- Collet size: 1/4"
- Weight: 2.0 lb (0.9 kg)
- Length: 7.8" (198 mm)
- Head Height: 3.0" (76 mm)
- Air inlet size: 1/4" NPT
- Recommended hose size: 3/8" (10 mm)

Model Number
5064

COLLETS

SIoux



Model Number	For Use On	Capacity
44522	1DS, 1DA, 1954HP, 1956HP, 1962, 1963, 1964, 2L1940	1/8"
44523	1DS, 1DA, 1954HP, 1956HP, 1962, 1963, 1964, 2L1941	3/16"
44440	1DS, 1DA, 1954HP, 1956HP, 1962, 1963, 1964, 2L1942	1/4"
66037	1DS, 1DA, 1954HP, 1956HP, 1962, 1963, 1964, 2L1943	3mm
66038	1DS, 1DA, 1954HP, 1956HP, 1962, 1963, 1964, 2L1944	6mm

200 SERIES

Model Number	For Use On	Capacity
21102	1DS, 1DA, 1954HP, 1956HP, 1962, 1963, 1964, 2L1945	1/8"
21101	1DS, 1DA, 1954HP, 1956HP, 1962, 1963, 1964, 2L1946	3/16"
21100	1DS, 1DA, 1954HP, 1956HP, 1962, 1963, 1964, 2L1947	1/4"
68030	1955HP	3/8"

100 SERIES

Model Number	For Use On	Capacity
21126	1985	1/4"
21125	1985	3/8"
21124	1985	1/2"
21124A		

ABRASIVE

ABRASIVE

SUPPORT HANDLES



Model Number	For Use On	Description
2357	1960 Series	Support handle
2359	1960 Series	Knob handle
63349	1200 Series	Support handle

COMFORT GRIPS



Model Number	For Use On	Description
65700	1DS Series	Comfort Grip
4335	1950 Extended Series	Comfort Grip

WHEEL GUARDS



Model Number	For Use On	Wheel Capacity		Wheel Type
		in	mm	
2346	1966	3	75	27
2347	1967	4	100	27
2341	1968	4-1/2	115	27
2321	1285, 1285L	7	180	27
2336	1291, 1291L	7	180	27
63161	V Series	7	180	27
63162	V Series	9	230	27
63160	V Series	6	150	6 & 11

MOUNTING ACCESSORIES



3" & 4" Type 27 Depressed Center Wheel For use on 1966, 1967 grinders (3/8"-24 thread spindle)

Model Number	Description
54958	Flange Adaptor
54959	Retainer
35545	Spanner Wrench
30505	Open End Wrench

MOUNTING ACCESSORIES 2



4-1/2" Type 27 Depressed Center Wheel For use on 1968 grinder (5/8"-11 threaded spindle)

Model Number	Description
65747	Flange Adaptor
65748	Flange Nut
65981	Spanner Wrench
30505	Open End Wrench

MOUNTING ACCESSORIES 3



7" Type 27 Depressed Center Wheel For 5/8"-11 threaded spindles

Model Number	Description
510	Flange Adaptor Kit
25894	Washers
512	Flange Nut
30110	3/8" Allen Wrench

ABRASIVE

1954HP DIE GRINDER KIT



Includes: 1954HP die grinder, 6 assorted mounted points, collet wrenches, storage case

Model Number
1954HPK

FINISHING

890 SERIES RANDOM ORBITAL SANDERS

0.25 HP (0.19 KW) - NON-VACUUM



Performance:

- Power: 0.25 hp (0.19 kw)
- Speed: 12,000 rpm

Features:

- 3/32" (3 mm) & 3/16" (5 mm) Orbit Diameters
- Built-in Speed Control
- Cushion Grip
- Rotatable Exhaust Deflector (Non-vacuum)
- Non-vacuum, Venturi Vacuum and Remote Vacuum

Model Number	Free Speed rpm	Weight		Diameter in	Air Consumption		Height		Model Number		Sound Level dB(A)
		lb	kg		Free Speed	Free Speed l/s	in	mm	PSA Pad	H L Pad	
890HP	12,000	1.7	0.8	5	18	8	3.6	91	890HP	890HPJ	78
890F	12,000	1.7	0.8	5	18	8	3.6	91	890F		78
897HP	12,000	1.7	0.8	6	18	8	3.6	91	897HP	897HPJ	78
897F	12,000	1.7	0.8	6	18	8	3.6	91	897F		78

0.25 HP (0.19 KW) - SELF-CONTAINED VENTURI VACUUM

Model Number	Free Speed rpm	Weight		Diameter in	Air Consumption		Height		Model Number		Sound Level dB(A)
		lb	kg		Free Speed	Free Speed l/s	in	mm	PSA Pad	H L Pad	
890HPVV	12,000	1.7	0.8	5	18	8	3.6	91	890HPVV	890HPJV	78
890FVV	12,000	1.7	0.8	5	18	8	3.6	91	890FVV		78
897HPVV	12,000	1.7	0.8	6	18	8	3.6	91	897HPVV	897HPJV	78
897FVV	12,000	1.7	0.8	6	18	8	3.6	91	897FVV		78

0.25 HP (0.19 KW) - REMOTE VACUUM READY

Model Number	Free Speed rpm	Weight		Diameter in	Air Consumption		Height		Model Number		Sound Level dB(A)
		lb	kg		Free Speed	Free Speed l/s	in	mm	PSA Pad	H L Pad	
897FVV	12,000	1.7	0.8	5	18	8	3.6	91	890HPV	890HPJV	78
890FV	12,000	1.7	0.8	5	18	8	3.6	91	890FV		78
897HPV	12,000	1.7	0.8	6	18	8	3.6	91	897HPV	897HPJV	78
897FV	12,000	1.7	0.8	6	18	8	3.6	91	897FV		78

FINISHING

600 & 700 SERIES RANDOM ORBITAL SANDERS

0.40 HP (0.30 KW) - PALM THROTTLE


Performance:

- Power: 0.40 hp (0.30 kw)
- Speed: 10,000 rpm

Features:

- 3/16" (5 mm) Orbit Diameter
- Built-in Speed Control
- Magnesium Housing
- Palm and Lever Throttle
- Composite Rotor & End Plate (700 series)

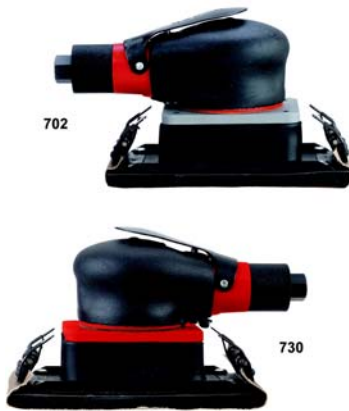
Model Number	Free Speed rpm	Weight		Air Consumption		Height		Model Number	
		lb	kg	Free Speed	Free Speed l/s	in	mm	PSA Pad	H L Pad
790J	10,000	2.6	1.2	20	9	4.2	107	790	790J
797J	10,000	2.6	1.2	20	9	4.2	107	797	797J
690J	10,000	2.9	1.3	20	9	4.2	107	690	
697J	10,000	2.9	1.3	20	9	4.2	107	697	

0.40 HP (0.30 KW) - DUAL ACTION - LEVER THROTTLE

Model Number	Free Speed rpm	Weight		Air Consumption		Height		Model Number	
		lb	kg	Free Speed	Free Speed l/s	in	mm	PSA Pad	H L Pad
758J	10,000	2.9	1.3	20	9	4.2	107	758	758J
760J	10,000	2.9	1.3	20	9	4.2	107	760	760J
658J	10,000	3.2	1.5	20	9	4.2	107	658	
660J	10,000	3.2	1.5	20	9	4.2	107	660	

ORBITAL JITTERBUG SANDERS

0.40 HP (0.30 KW)


Performance:

- Power: 0.40 hp (0.30 kw)
- Orbital Speed: 9000 rpm

Features:

- Palm Throttle
- Built-in Speed Control
- Magnesium Housing
- Composite Rotor and End Plate

Model Number	Weight	Air Consumption		Height		Paper Size		
		lb	kg	Free Speed	Free Speed l/s	in	mm	mm
702	3.3	1.5	20	9	4.2	107	3 x 8	76 x 203
730	3.3	1.5	20	9	4.2	107		94 x 229

PISTOL GRIP SANDERS

0.90 HP (0.67 KW) - 5" (125 MM) DIAMETER BACKING PAD

Model Number	Free Speed rpm	Weight		Air Consumption		Length		Sound Level dB(A)
		lb	kg	Free Speed	Free Speed l/s	in	mm	
540ES	20,000	1.7	0.8	30	14	4.4	112	77
540ESS	14,000	1.7	0.8	30	14	4.4	112	77

FINISHING

PISTOL GRIP SANDERS

0.90 HP (0.67 KW) - 1/4" COLLET



Performance:

- Power: 0.90 hp (0.67 kw)
- Speed: 14,000 rpm - 20,000 rpm

Features:

- Trigger Start
- Down-handle Exhaust
- Comfort Grip

Model Number	Free Speed rpm	Weight		Air Consumption		Length		Sound Level dB(A)
		lb	kg	Free Speed	Free Speed l/s	in	mm	
540ESC	20,000	1.7	0.8	30	14	4.4	112	77
540ESSC	14,000	1.7	0.8	30	14	4.4	112	77

1/3 HP RIGHT ANGLE SANDERS

0.33 HP (0.25 KW) - 1/4" COLLET



Performance:

- Power: 0.33 hp (0.25 kw)
- Speed: 12,000 rpm - 20,000 rpm

Features:

- Lockoff Lever Throttle
- Front, Rear, and Vacuum Exhaust
- Comfort Grip

Model Number	Free Speed rpm	Weight		Exhaust	Air Consumption		Length	
		lb	kg		Free Speed	Free Speed l/s	in	mm
1DA211	20,000	1.2	0.5	Front	17	8	6	152
1DA221	20,000	1.2	0.5	Rear	17	8	6	152
1DA311	12,000	1.2	0.5	Front	17	8	6	152
1DA321	12,000	1.2	0.5	Rear	17	8	6	152

0.33 HP (0.25 KW) - 1/4"-20 EXTERNAL SPINDLE THREAD

Model Number	Free Speed rpm	Weight		Exhaust	Air Consumption		Length	
		lb	kg		Free Speed	Free Speed l/s	in	mm
1DA315	12,000	1.2	0.5	Front	17	8	6	152
1DA325	12,000	1.2	0.5	Rear	17	8	6	152

0.33 HP (0.25 KW) - 1/4"-28 INTERNAL SPINDLE THREAD

Model Number	Free Speed rpm	Weight		Exhaust	Air Consumption		Length	
		lb	kg		Free Speed	Free Speed l/s	in	mm
1DA314	12,000	1.2	0.5	Front	17	8	6	152

0.33 HP (0.25 KW) - 1/4" COLLET - 2" VENTURI VACUUM

Model Number	Free Speed rpm	Weight		Exhaust	Air Consumption		Length	
		lb	kg		Free Speed	Free Speed l/s	in	mm
1DA251	20,000	1.6	0.7	Vacuum	17	8	6	152
1DA351	12,000	1.6	0.7	Vacuum	17	8	6	152

0.33 HP (0.25 KW) - 1/4" COLLET - 3" VENTURI VACUUM

Model Number	Free Speed rpm	Weight		Exhaust	Air Consumption		Length	
		lb	kg		Free Speed	Free Speed l/s	in	mm
1DA361	12,000	1.6	0.7	Vacuum	17	8	6	152

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0.90 HP (0.67 KW) - NON-REVERSIBLE	1	"T" HANDLE - 1.0 HP (0.75 KW)	4
0.20 HP (0.15 KW) - REVERSIBLE	1	- NON-REVERSIBLE	
0.60 HP (0.45 KW) - REVERSIBLE	1		
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0.75 HP (0.56 KW) - NON-REVERSIBLE	2	DRILL ARBORS	5
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180° ROTATING HEAD - 0.75 HP (0.56 KW) - CHUCK CAPACITY: (0.7 MM) THRU 1/4" (0.6 MM)	3	1/4" (6 MM) RATCHET WRENCH MODEL NO. 5008	7
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0.40 HP (0.30 KW) - NON-REVERSIBLE - REAR EXHAUST	3	3/8" (10 MM) RATCHET WRENCH MODEL NO. 5010	7
0.50 HP (0.37 KW) - REVERSIBLE - REAR EXHAUST	3	3/8" (10 MM) RATCHET WRENCH MODEL NO. 5011	7
0.75 HP (0.56 KW) - NON-REVERSIBLE - REAR EXHAUST	3	1/2" (13 MM) RATCHET WRENCH MODEL NO. 5012	7
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