

SHINANO INC.

 PNEUMATIC TOOLS
SHINANO INC.
MADE IN JAPAN

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SHINANO_AIRTOOLS

 JQA QUALITY SYSTEM JQA-QMA13047	 JAB MS CM009	 JQA QUALITY SYSTEM JQA-QMA13047	 UKAS MANAGEMENT SYSTEMS 091
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GENERAL CATALOG

2022-2024 Vol.2

AIR TOOLS 2022-2024 Vol.2 CATALOG

- IMPACT WRENCHES ■ DRIVERS ■ RATCHET WRENCHES
- SANDERS ■ POLISHERS ■ GRINDERS ■ DRILLS/SPOTMILLS
- CUTTING TOOLS ■ OTHERS

 PNEUMATIC TOOLS
SHINANO INC.

MADE IN JAPAN

Shinano Inc was established in 1949, specialising in Pneumatic Tools from 1969. Building on our experience, we achieve excellent results in build quality, accuracy and user safety. With more than a hundred tools in the range, Shinano Inc is one of the worlds largest manufacturers of pneumatic tools.



Sophisticated and Functional Design

Our tools are the result of over 50 years of pneumatic tool design.

Our experience in research, engineering and production techniques, have created a line of high performance tools that are durable, reliable and easy to use.

Perfection

Our customers needs are our top priority. Performance, quality, noise control and user safety, we stand by our products and strive for excellence.

This is our promise of the SI mark.



The Green Project

Shinano contribute to environmental protection



Solar power generation

The photovoltaics business was started from January, 2013 as an activity which utilizes renewable energy effectively for global environment protection.

We are reducing the CO2 in the same amount as the 20,000 trees in year. Generated the equivalent of 98% of the electricity used in the factory in 2020.



Factory rooftop, SHINANO INC.



Kagoshima Solar Power Plant



Wakayama Solar Power Plant



ISO9001 Management system certificate



JQA-QMA13047



MS
CM009



JQA-QMA13047



091

IMPACT WRENCHES

P 5-10



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Viewpoint of the catalogue page

Viewpoint of the product page

Model Number	SI-1365	3/8" Impact Wrench
Descriptions	<ul style="list-style-type: none"> The ultimate design for a 3/8" sq drive impact wrench Precision machined air motor for durability Muffled exhaust for industrial use 	Maximum Torque Nm/(ft-lb) 100/(74) Working Torque Range Nm/(ft-lb) 0-80/(0-59) Bolt Cap mm/(in.) 10/(3/8) Free Speed r.p.m. 8,000 Weight kg/(lb) 1.31/(2.89) Noise Level dBA/(power) 91/(102) Vibration a/k ms ² 8.3/1.3 Max Air Consumption CFM/(L/S) 19.8/(9.3) Avg Air Consumption CFM/(L/S) 3.3/(1.6) Air Inlet Size in. 1/4 Hose Size mm/(in.) 10/(3/8)
Impact Clutch	Double Hammer	
Attachment Included	Attachment Included	
Maximum Torque	100Nm	
Product image	Product image	
Figure of dimensions	Figure of dimensions	
Specification	Specification	



SI-1490BSR

IMPACT WRENCHES

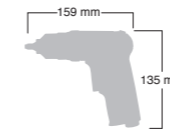
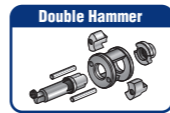
- 1/4" IMPACT WRENCHES
- 3/8" IMPACT WRENCHES
- 1/2" IMPACT WRENCHES
- 3/4" IMPACT WRENCHES
- 1" IMPACT WRENCHES
- 1-1/2" IMPACT WRENCH

IMPACT WRENCHES

1/2" Impact Wrenches · 1/4" Impact Wrench · 3/8" Impact Wrenches

SI-1310S

1/4" Impact Wrench



SI-1310S
Maximum Torque :
40Nm

SI-1315S

3/8" Impact Wrench

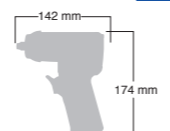
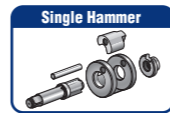


SI-1315S
Maximum Torque :
60Nm

	SI-1310S	SI-1315S
Maximum Torque Nm/ (ft-lb)	40/ (30)	60/ (44)
Working Torque Range Nm/ (ft-lb)	0-35/ (0-26)	0-50/ (0-37)
Bolt Cap mm/ (in.)	8/ (5/16)	10/ (3/8)
Free Speed r.p.m.	10,000	10,000
Weight kg/ (lb)	0.63/ (1.39)	0.63/ (1.39)
Noise Level dBA/ (power)	86/ (97)	86/ (97)
Vibration a/k m/s ²	4.8/ 0.9	4.9/ 1.0
Max Air Consumption CFM/ (L/S)	12.6/ (5.9)	12.6/ (5.9)
Avg Air Consumption CFM/ (L/S)	2.1/ (1.0)	2.1/ (1.0)
Air Inlet Size in.	1/4	1/4
Hose Size mm/ (in.)	10/ (3/8)	10/ (3/8)

SI-1355

3/8" Impact Wrench

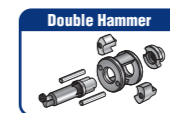


SI-1355
Maximum Torque :
90Nm

Maximum Torque Nm/ (ft-lb)	90/ (66)
Working Torque Range Nm/ (ft-lb)	0-75/ (0-55)
Bolt Cap mm/ (in.)	10/ (3/8)
Free Speed r.p.m.	9,000
Weight kg/ (lb)	1.12/ (2.47)
Noise Level dBA/ (power)	80/ (91)
Vibration a/k m/s ²	3.3/ 0.8
Max Air Consumption CFM/ (L/S)	16.2/ (7.6)
Avg Air Consumption CFM/ (L/S)	2.7/ (1.5)
Air Inlet Size in.	1/4
Hose Size mm/ (in.)	10/ (3/8)

SI-1365

3/8" Impact Wrench



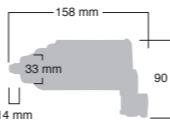
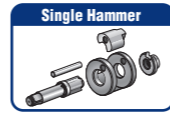
SI-1365
Maximum Torque :
100Nm



Maximum Torque Nm/ (ft-lb)	100/ (74)
Working Torque Range Nm/ (ft-lb)	0-80/ (0-59)
Bolt Cap mm/ (in.)	10/ (3/8)
Free Speed r.p.m.	8,000
Weight kg/ (lb)	1.31/ (2.89)
Noise Level dBA/ (power)	91/ (102)
Vibration a/k m/s ²	8.3/ 1.3
Max Air Consumption CFM/ (L/S)	19.8/ (9.3)
Avg Air Consumption CFM/ (L/S)	3.3/ (1.6)
Air Inlet Size in.	1/4
Hose Size mm/ (in.)	10/ (3/8)

SI-1305

3/8" Impact Wrench



SI-1305
Maximum Torque :
90Nm

Maximum Torque Nm/ (ft-lb)	90/ (66)
Working Torque Range Nm/ (ft-lb)	0-75/ (0-55)
Bolt Cap mm/ (in.)	10/ (3/8)
Free Speed r.p.m.	9,000
Weight kg/ (lb)	0.94/ (2.08)
Noise Level dBA/ (power)	91/ (102)
Vibration a/k m/s ²	3.8/ 0.8
Max Air Consumption CFM/ (L/S)	16.8/ (7.9)
Avg Air Consumption CFM/ (L/S)	2.8/ (1.3)
Air Inlet Size in.	1/4
Hose Size mm/ (in.)	10/ (3/8)

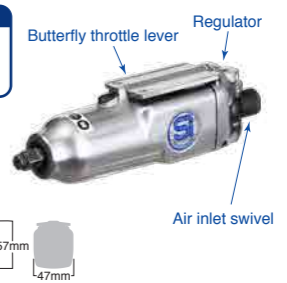
SI-1306B

New

3/8" Impact Wrench



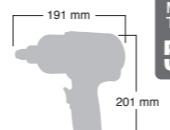
SI-1306B
Maximum Torque :
190Nm



Maximum Torque Nm/ (ft-lb)	190/ (140)
Working Torque Range Nm/ (ft-lb)	0-130/ (0-96)
Bolt Cap mm/ (in.)	10/ (3/8)
Free Speed r.p.m.	8,000
Weight kg/ (lb)	1.15/ (2.54)
Noise Level dBA/ (power)	86.8/ (97.8)
Vibration a/k m/s ²	6.24/ 1.11
Avg Air Consumption CFM/ (L/S)	2.70/ (1.27)
Air Inlet Size in.	1/4
Hose Size mm/ (in.)	10/ (3/8)

SI-1420T

1/2" Impact Wrench



SI-1420T
Maximum Torque :
500Nm

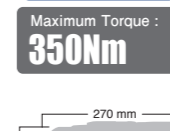
	SI-1420T	SI-1422T
Maximum Torque Nm/ (ft-lb)	500/ (369)	480/ (354)
Working Torque Range Nm/ (ft-lb)	0-400/ (0-295)	0-360/ (0-266)
Bolt Cap mm/ (in.)	18/ (11/16)	18/ (11/16)
Free Speed r.p.m.	6,000	6,000
Weight kg/ (lb)	2.55/ (5.62)	2.65/ (5.82)
Noise Level dBA/ (power)	91/ (102)	92/ (103)
Vibration a/k m/s ²	7.3/ 1.2	8.2/ 1.3
Max Air Consumption CFM/ (L/S)	24.0/ (11.3)	24.0/ (11.3)
Avg Air Consumption CFM/ (L/S)	4.0/ (1.9)	4.0/ (1.9)
Air Inlet Size in.	1/4	1/4
Hose Size mm/ (in.)	10/ (3/8)	10/ (3/8)

SI-1422T

2" Extended Anvil

SI-1650AH

1/2" Impact Wrench



SI-1650AH
Maximum Torque :
350Nm



Maximum Torque Nm/ (ft-lb)	350/ (258)
Working Torque Range Nm/ (ft-lb)	0-280/ (0-207)
Bolt Cap mm/ (in.)	16/ (5/8)
Free Speed r.p.m.	(F)7,500 (R)8,000
Weight kg/ (lb)	2.80/ (6.17)
Noise Level dBA/ (power)	91/ (102)
Vibration a/k m/s ²	18.1/ 2.2
Max Air Consumption CFM/ (L/S)	24.0/ (11.3)
Avg Air Consumption CFM/ (L/S)	4.0/ (1.9)
Air Inlet Size in.	1/4
Hose Size mm/ (in.)	10/ (3/8)

IMPACT WRENCHES
DRIVERS
RATCHET WRENCHES
SAWDRIVERS
POLISHERS
GRINDERS
SPOTMILLS
CUTTING TOOLS
OTHERS
INDUSTRIAL TOOLS
ACCESSORIES
SOUND & VIBRATION
MAINTENANCE CHECK
QUALITY

SI-1357

3/8" Impact Wrench

- Ergonomic design, compact, and lightweight for easy operation.
- Easy to use in tight spaces.



Maximum Torque Nm/(ft-lb)	200/(147)
Working Torque Range Nm/(ft-lb)	0-160/(0-118)
Bolt Cap mm/(in.)	10/(3/8)
Free Speed r.p.m.	(F)8,000 (R)9,000
Weight kg/(lb)	1.10/(2.43)
Noise Level dBA/(power)	92/(103)
Vibration a/k m/s ²	7.6/1.2
Max Air Consumption CFM/(L/S)	21.6/(10.2)
Avg. Air Consumption CFM/(L/S)	3.6/(1.7)
Air Inlet Size in.	1/4
Hose Size mm/(in.)	10/(3/8)

SI-1457

1/2" Impact Wrench

- Ergonomic design, compact, and lightweight for easy operation.
- Easy to use in tight spaces.

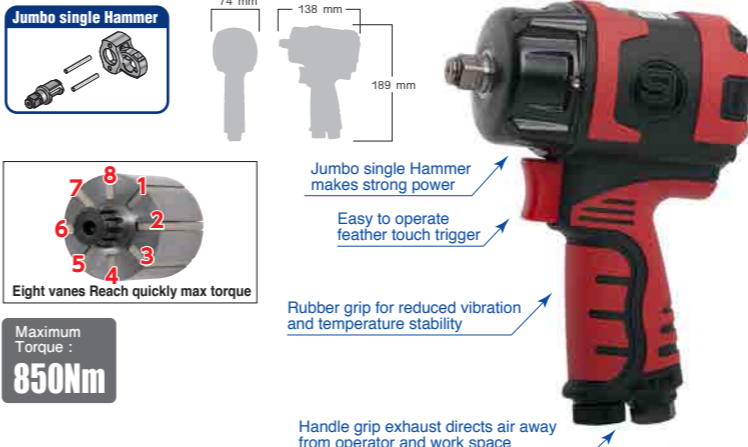


Maximum Torque Nm/(ft-lb)	350/(258)
Working Torque Range Nm/(ft-lb)	0-280/(0-207)
Bolt Cap mm/(in.)	16/(5/8)
Free Speed r.p.m.	(F)8,000 (R)9,000
Weight kg/(lb)	1.1/(2.43)
Noise Level dBA/(power)	92/(103)
Vibration a/k m/s ²	9.1/1.4
Max Air Consumption CFM/(L/S)	21.6/(10.2)
Avg. Air Consumption CFM/(L/S)	3.6/(1.7)
Air Inlet Size in.	1/4
Hose Size mm/(in.)	10/(3/8)

SI-1460

1/2" Impact Wrench

- Extremely high breakaway torque of 1400Nm.
- It combines light weight and high power.
- Strong jumbo single hammer clutch.
- Composite motor housing for reduced vibration and temperature stability.



Breakaway Torque **1,400Nm**

Only **1.57kg** and **138mm** length short size body.

	SI-1460	SI-1460SR
Maximum Torque Nm/(ft-lb)	850/(627)	850/(627)
Working Torque Range Nm/(ft-lb)	0-620/(0-457)	0-620/(0-457)
Bolt Cap mm/(in.)	20/(3/4)	20/(3/4)
Free Speed r.p.m.	(F)8,000 (R)8,500	(F)8,000 (R)8,500
Weight kg/(lb)	1.57/(3.46)	1.57/(3.46)
Noise Level dBA/(power)	88.3/(99.3)	88.3/(99.3)
Vibration a/k m/s ²	9.5/1.4	9.5/1.4
Max Air Consumption CFM/(L/S)	30.6/(14.4)	30.6/(14.4)
Avg. Air Consumption CFM/(L/S)	5.1/(2.4)	5.1/(2.4)
Air Inlet Size in.	1/4	1/4
Hose Size mm/(in.)	10/(3/8)	10/(3/8)

SI-1605/SI-1605SR

3/8" Impact Wrench

- Ergonomic design, compact, and lightweight for easy operation.
- Full power reverse helps to unfasten bolts quickly for changing wheels. (SI-1605SR)



	SI-1605	SI-1605SR
Maximum Torque Nm/(ft-lb)	350/(258)	350/(258)
Working Torque Range Nm/(ft-lb)	0-280/(0-207)	0-280/(0-207)
Bolt Cap mm/(in.)	16/(5/8)	16/(5/8)
Free Speed r.p.m.	(F)8,000 (R)8,500	(F)8,000 (R)8,500
Weight kg/(lb)	1.03/(2.27)	1.03/(2.27)
Noise Level dBA/(power)	94/(105)	94/(105)
Vibration a/k m/s ²	7.7/1.3	7.7/1.3
Max Air Consumption CFM/(L/S)	22.8/(10.8)	22.8/(10.8)
Avg. Air Consumption CFM/(L/S)	3.8/(1.8)	3.8/(1.8)
Air Inlet Size in.	1/4	1/4
Hose Size mm/(in.)	10/(3/8)	10/(3/8)

SI-1610/SI-1610SR

1/2" Impact Wrench

- Ergonomic design, compact, and lightweight for easy operation.
- One hand forward & reverse operation.
- Full power reverse helps to unfasten bolts quickly for changing wheels. (SI-1610SR)



	SI-1610	SI-1610SR
Maximum Torque Nm/(ft-lb)	450/(332)	450/(332)
Working Torque Range Nm/(ft-lb)	0-320/(0-258)	0-320/(0-258)
Bolt Cap mm/(in.)	16/(5/8)	16/(5/8)
Free Speed r.p.m.	(F)8,000 (R)8,500	(F)8,000 (R)8,500
Weight kg/(lb)	1.04/(2.29)	1.04/(2.29)
Noise Level dBA/(power)	94/(105)	94/(105)
Vibration a/k m/s ²	7.7/1.3	7.7/1.3
Max Air Consumption CFM/(L/S)	22.8/(10.8)	22.8/(10.8)
Avg. Air Consumption CFM/(L/S)	3.8/(1.8)	3.8/(1.8)
Air Inlet Size in.	1/4	1/4
Hose Size mm/(in.)	10/(3/8)	10/(3/8)

SI-1490B

1/2" Impact Wrench

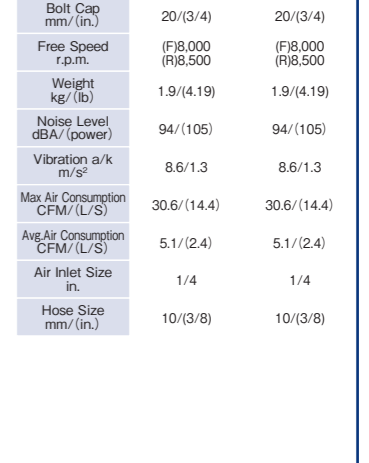
- Light weight, high power and well balanced.
- 4 positions regulator dial for easy adjustment and it has a forward, reverse lever for easy adjustment.
- Integrated muffler for reduced noise level



SI-1490BSR

1/2" Impact Wrench

- Light weight, high power and well balanced.
- 4 positions regulator dial for easy adjustment and it has a forward, reverse lever for easy adjustment.
- Integrated muffler for reduced noise level



	SI-1490B	SI-1490BSR
Maximum Torque Nm/(ft-lb)	850/(627)	850/(627)
Working Torque Range Nm/(ft-lb)	0-620/(0-457)	0-620/(0-457)
Bolt Cap mm/(in.)	20/(3/4)	20/(3/4)
Free Speed r.p.m.	(F)8,000 (R)8,500	(F)8,000 (R)8,500
Weight kg/(lb)	1.9/(4.19)	1.9/(4.19)
Noise Level dBA/(power)	94/(105)	94/(105)
Vibration a/k m/s ²	8.6/1.3	8.6/1.3
Max Air Consumption CFM/(L/S)	30.6/(14.4)	30.6/(14.4)
Avg. Air Consumption CFM/(L/S)	5.1/(2.4)	5.1/(2.4)
Air Inlet Size in.	1/4	1/4
Hose Size mm/(in.)	10/(3/8)	10/(3/8)

SI-1455SR

1/2" Impact Wrench

- Only 112 mm length short size body
- Strong jumbo hammer clutch
- Reverse button for one hand operation
- Composite motor housing for reduced vibration and temperature stability



Maximum Torque Nm/(ft-lb)	740/(550)
Working Torque Range Nm/(ft-lb)	0-640/(0-470)
Bolt Cap mm/(in.)	16/(5/8)
Free Speed r.p.m.	(F)9,000 (R)9,000
Weight kg/(lb)	1.17/(2.57)
Noise Level dBA/(power)	98.7/(109.7)
Vibration a/k m/s ²	8.7/1.5
Max Air Consumption CFM/(L/S)	28.8/(13.6)
Avg. Air Consumption CFM/(L/S)	4.8/(2.3)
Air Inlet Size in.	1/4
Hose Size mm/(in.)	10/(3/8)

SI-1492B/SI-1492BSR

1/2" Impact Wrench with 2" Extended Anvil

- The same quality features of SI-1490B & SI-1490BSR with 2" extended anvil



	SI-1492B	SI-1492BSR
Maximum Torque Nm/(ft-lb)	830/(612)	830/(612)
Working Torque Range Nm/(ft-lb)	0-600/(0-443)	0-600/(0-443)
Bolt Cap mm/(in.)	20/(3/4)	20/(3/4)
Free Speed r.p.m.	(F)8,000 (R)8,500	(F)8,000 (R)8,500
Weight kg/(lb)	1.94/(4.28)	1.94/(4.28)
Noise Level dBA/(power)	94/(105)	94/(105)
Vibration a/k m/s ²	8.6/1.3	8.6/1.3
Max Air Consumption CFM/(L/S)	30.6/(14.4)	30.6/(14.4)
Avg. Air Consumption CFM/(L/S)	5.1/(2.4)	5.1/(2.4)
Air Inlet Size in.	1/4	1/4
Hose Size mm/(in.)	10/(3/8)	10/(3/8)

SI-1550/SI-1550SR

3/4" Impact Wrench

- Rubber grip absorbs the vibration remarkably well and also protects your hand from the cold.
- 4 positions regulator dial for easy adjustment and it has a forward, reverse for easy adjustment.

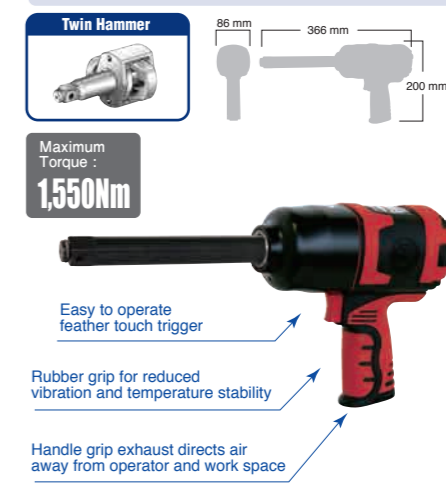


	SI-1550	SI-1550SR
Maximum Torque Nm/(ft-lb)	1,650/(1,217)	1,650/(1,217)
Working Torque Range Nm/(ft-lb)	0-1,320/(0-974)	0-1,320/(0-974)
Bolt Cap mm/(in.)	24/(1 1/2)	24/(1 1/2)
Free Speed r.p.m.	(F)6,000 (R)6,500	(F)6,000 (R)6,500
Weight kg/(lb)	3.25/(7.7)	3.25/(7.7)
Noise Level dBA/(power)	92/(103)	92/(103)
Vibration a/k m/s ²	11.2/1.6	11.2/1.6
Max Air Consumption CFM/(L/S)	48.0/(22.6)	48.0/(22.6)
Avg. Air Consumption CFM/(L/S)	8.0/(3.8)	8.0/(3.8)
Air Inlet Size in.	3/8	3/8
Hose Size mm/(in.)	13/(1/2)	13/(1/2)

SI-1556/SI-1556SR

3/4" Impact Wrench with 6" Extended Anvil

- SI-1550 & SI-1550SR with 6" extended anvil.
- 4 positions regulator dial for easy adjustment and it has a forward, reverse for easy adjustment.



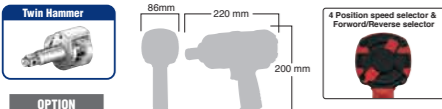
	SI-1556	SI-1556SR
Maximum Torque Nm/(ft-lb)	1,550/(1,143)	1,550/(1,143)
Working Torque Range Nm/(ft-lb)	0-1,240/(0-915)	0-1,240/(0-915)
Bolt Cap mm/(in.)	24/(1 1/2)	24/(1 1/2)
Free Speed r.p.m.	(F)6,000 (R)6,500	(F)6,000 (R)6,500
Weight kg/(lb)	3.95/(8.71)	3.95/(8.71)
Noise Level dBA/(power)	93/(104)	93/(104)
Vibration a/k m/s ²	11.1/1.5	11.1/1.5
Max Air Consumption CFM/(L/S)	48.0/(22.6)	48.0/(22.6)
Avg. Air Consumption CFM/(L/S)	8.0/(3.8)	8.0/(3.8)
Air Inlet Size in.	3/8	3/8
Hose Size mm/(in.)	13/(1/2)	13/(1/2)

IMPACT WRENCHES 1" Impact Wrenches

SI-1555SR

1" Impact Wrench

- Pistol grip impact wrench with 1" sq. anvil.
- Rubber grip absorbs the vibration remarkably well and also protects your hand from the cold.
- 4 positions regulator dial for easy adjustment and it has an forward, reverse for easy adjustment.

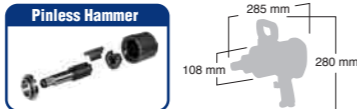


Maximum Torque Nm/(ft-lb)	1,650/(1,217)
Working Torque Range Nm/(ft-lb)	0-1,320/(0-974)
Bolt Cap mm/(in.)	38/(1-1/4)
Free Speed r.p.m.	(F)6,000 (R)6,500
Weight kg/(lb)	3.5/(7.7)
Noise Level dBA/(power)	92/(103)
Vibration a/k m/s ²	11.2/1.6
Max Air Consumption CFM/(L/S)	48.0/(22.6)
Avg Air Consumption CFM/(L/S)	8.0/(3.8)
Air Inlet Size in.	3/8
Hose Size mm/(in.)	13/(1/2)

SI-1860

1" Impact Wrench

- Pistol grip impact wrench with 1" sq. anvil.
- 3-piece body construction engineered for easy maintenance.
- Pinless Hammer Clutch for High Durability.

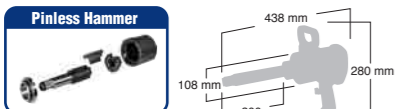


Maximum Torque Nm/(ft-lb)	2,500/(1,840)
Working Torque Range Nm/(ft-lb)	1,000-2,200/(740-1,620)
Bolt Cap mm/(in.)	41/(1-10/16)
Free Speed r.p.m.	4,700
Weight kg/(lb)	10.9/(24.0)
Noise Level dBA/(power)	94/(105)
Vibration a/k m/s ²	8.8/1.3
Max Air Consumption CFM/(L/S)	82.7/(39.1)
Avg Air Consumption CFM/(L/S)	13.8/(6.5)
Air Inlet Size in.	1/2
Hose Size mm/(in.)	13/(1/2)

SI-1866

1" Impact Wrench with 6" Extended Anvil

- 6" extended anvil for easy reach into deep truck wheels.
- 3-piece body construction engineered for easy maintenance.
- Pinless Hammer Clutch for High Durability.

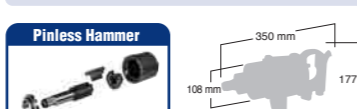


Maximum Torque Nm/(ft-lb)	2,400/(1,770)
Working Torque Range Nm/(ft-lb)	900-2,100/(670-1,550)
Bolt Cap mm/(in.)	41/(1-10/16)
Free Speed r.p.m.	4,700
Weight kg/(lb)	12.4/(27.3)
Noise Level dBA/(power)	95/(106)
Vibration a/k m/s ²	8.3/1.3
Max Air Consumption CFM/(L/S)	82.7/(39.1)
Avg Air Consumption CFM/(L/S)	13.8/(6.5)
Air Inlet Size in.	1/2
Hose Size mm/(in.)	13/(1/2)

SI-1870

1" Impact Wrench

- Straight body impact wrench with 1" sq. anvil and D handle.
- 3-piece body construction engineered for easy maintenance.
- Pinless Hammer Clutch for High Durability.
- Removable support handle can be rotated for left hand or right hand use.



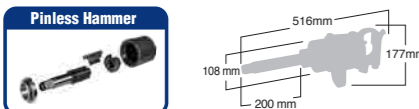
Maximum Torque Nm/(ft-lb)	2,400/(1,770)
Working Torque Range Nm/(ft-lb)	880-2,100/(650-1,550)
Bolt Cap mm/(in.)	41/(1-10/16)
Free Speed r.p.m.	4,400
Weight kg/(lb)	10.6/(23.4)
Noise Level dBA/(power)	94/(105)
Vibration a/k m/s ²	9.3/1.4
Max Air Consumption CFM/(L/S)	69.0/(32.5)
Avg Air Consumption CFM/(L/S)	11.5/(5.4)
Air Inlet Size in.	1/2
Hose Size mm/(in.)	13/(1/2)

SI-1876

SI-1876I : Inside Trigger model

1" Impact Wrench with 6" Extended Anvil

- 6" extended anvil for easy reach into deep truck wheels.
- Pinless Hammer Clutch for High Durability.



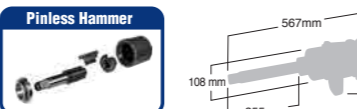
Maximum Torque Nm/(ft-lb)	2,300/(1,700)
Working Torque Range Nm/(ft-lb)	830-2,000/(610-1,470)
Bolt Cap mm/(in.)	40/(1-9/16)
Free Speed r.p.m.	4,400
Weight kg/(lb)	12.1/(26.7)
Noise Level dBA/(power)	94/(105)
Vibration a/k m/s ²	12.1/1.7
Max Air Consumption CFM/(L/S)	69.0/(32.5)
Avg Air Consumption CFM/(L/S)	11.5/(5.4)
Air Inlet Size in.	1/2
Hose Size mm/(in.)	13/(1/2)

SI-1878

SI-1878I : Inside Trigger model

1" Impact Wrench with 8" Extended Anvil

- 8" extended anvil for easy reach into deep truck wheels.
- Pinless Hammer Clutch for High Durability.



Maximum Torque Nm/(ft-lb)	2,200/(1,630)
Working Torque Range Nm/(ft-lb)	800-1,900/(590-1,400)
Bolt Cap mm/(in.)	40/(1-9/16)
Free Speed r.p.m.	4,400
Weight kg/(lb)	12.3/(27.1)
Noise Level dBA/(power)	94/(105)
Vibration a/k m/s ²	11.1/1.5
Max Air Consumption CFM/(L/S)	69.0/(32.5)
Avg Air Consumption CFM/(L/S)	11.5/(5.4)
Air Inlet Size in.	1/2
Hose Size mm/(in.)	13/(1/2)

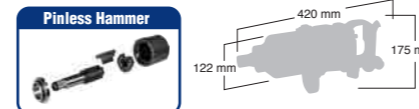
IMPACT WRENCHES 1" Impact Wrenches • 1-1/2" Impact Wrench

SI-1880

SI-1880I : Inside Trigger model

1" Impact Wrench

- Heavy Duty high power 1" impact wrench
- 3-piece body construction engineered for easy maintenance.
- Pinless Hammer Clutch for High Durability.
- Removable support handle can be rotated for left hand or right hand use.



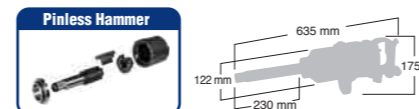
Maximum Torque Nm/(ft-lb)	3,300/(2,430)
Working Torque Range Nm/(ft-lb)	900-2,800/(660-2,060)
Bolt Cap mm/(in.)	50 (1-15/16)
Free Speed r.p.m.	3,000
Weight kg/(lb)	15.4/(33.8)
Noise Level dBA/(power)	92/(103)
Vibration a/k m/s ²	8.3/1.3
Max Air Consumption CFM/(L/S)	64.2/(30.3)
Avg Air Consumption CFM/(L/S)	10.7/(5.0)
Air Inlet Size in.	1/2
Hose Size mm/(in.)	13/(1/2)

SI-1888

SI-1888I : Inside Trigger model

1" Impact Wrench with 8" Extended Anvil

- 8" extended anvil for easy reach into deep truck wheels.
- 3-piece body construction engineered for easy maintenance.
- Pinless Hammer Clutch for High Durability.
- Removable support handle can be rotated for left hand or right hand use.



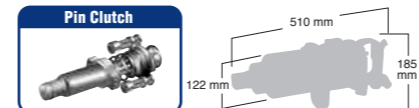
Maximum Torque Nm/(ft-lb)	3,200/(2,360)
Working Torque Range Nm/(ft-lb)	800-2,700/(590-1,990)
Bolt Cap mm/(in.)	50 (1-15/16)
Free Speed r.p.m.	3,000
Weight kg/(lb)	17.1/(37.7)
Noise Level dBA/(power)	92/(103)
Vibration a/k m/s ²	9.8/1.4
Max Air Consumption CFM/(L/S)	64.2/(30.3)
Avg Air Consumption CFM/(L/S)	10.7/(5.0)
Air Inlet Size in.	1/2
Hose Size mm/(in.)	13/(1/2)

SI-1900

SI-1900I : Inside Trigger model

1-1/2" Impact Wrench

- Heavy Duty impact wrench with 1-1/2" sq. anvil and D handle.
- 3-piece body construction engineered for easy maintenance.
- Removable support handle can be rotated for left hand or right hand use.

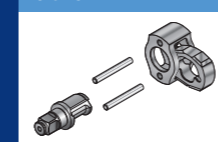


Maximum Torque Nm/(ft-lb)	5,500/(4,060)
Working Torque Range Nm/(ft-lb)	1,500-4,200/(1,110-3,100)
Bolt Cap mm/(in.)	55/(2-3/16)
Free Speed r.p.m.	3,600
Weight kg/(lb)	18.0/(39.7)
Noise Level dBA/(power)	107/(116)
Vibration m/s ²	9.3
Max Air Consumption CFM/(L/S)	79.7/(37.6)
Avg Air Consumption CFM/(L/S)	13.3/(6.3)
Air Inlet Size in.	1/2
Hose Size mm/(in.)	13/(1/2)

IMPACT CLUTCHES

Jumbo Single Hammer

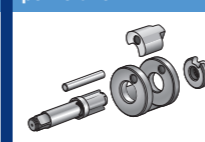
One hammer makes one impact per rotation.



This design is most compact and light weight hammer configuration. It's similar to the Twin Hammer but with a single hammer. The clutch creates extremely high torque and durability.

Single Hammer

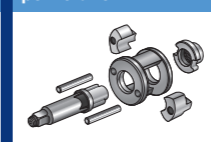
Single hammer makes one impact per rotation.



A single hammer is contained within the clutch rotor. This produces greater impact force per rotation and easy maintenance.

Double Hammer

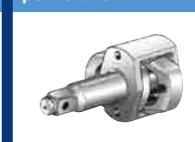
Two hammers make two impacts per rotation.



Twin hammers are contained within the clutch rotor. This design produces lower vibration levels and higher torque than a single hammer configuration.

Twin Hammer

Two hammers make one impact per rotation.



This design is the most durable and light weight hammer configuration which produces less vibration, while maintaining high impact forces for it's weight.

Pin Clutch

One hammer makes one impact per rotation



Cam driven engaging pins that extend and retract once per rotation, engaging the anvil with the hammer to produce high force impacts. This configuration produces the highest torque delivery in the range with minimum vibration.

Pinless Hammer

One hammer makes one impact per rotation



The impact power is transmitted directly to the anvil by a unified hammer and hammer pin. This unified hammer configuration delivers high impact force with long service life and easy maintenance.



SI-1170

DRIVERS

IMPACT DRIVERS
SCREW DRIVERS



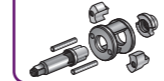
DRIVERS Impact Drivers

SI-1052

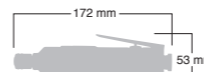
Impact Driver

- 6mm capacity straight grip impact driver
- Have regulator built-in
- Compact body design for reduce weight and easy operation

Double Hammer



Standard Accessory



Reverse lever

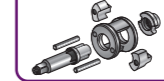
Shank Size in./ (mm)	1/4/(6.35)
Max Torque Nm/(ft-lb)	70/(51.6)
Working Torque Nm/(ft-lb)	0-60/(0-44)
Bolt Cap mm/(in.)	5/(3/16)
Free Speed r.p.m.	13,000
Weight kg/(lb)	0.56/(1.23)
Noise Level dBA/ (power)	90/(101)
Vibration a/k m/s ²	9.3/1.4
Max Air Consumption CFM/ (L/S)	13.8/(6.5)
Avg Air Consumption CFM/ (L/S)	2.3/(1.1)
Air Inlet Size in.	1/4

SI-1062

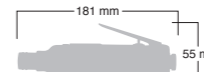
Impact Driver

- More powerful than SI-1052
- Built-in regulator
- Compact body design for reduce weight and easy operation

Double Hammer



Standard Accessory



Reverse lever

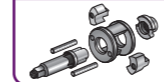
Shank Size in./ (mm)	1/4/(6.35)
Max Torque Nm/(ft-lb)	80/(70.1)
Working Torque Nm/(ft-lb)	0-70/(0-52)
Bolt Cap mm/(in.)	6/(1/4)
Free Speed r.p.m.	10,000
Weight kg/(lb)	0.79/(1.74)
Noise Level dBA/ (power)	87/(98)
Vibration a/k m/s ²	9.8/1.4
Max Air Consumption CFM/ (L/S)	16.8/(7.9)
Avg Air Consumption CFM/ (L/S)	2.8/(1.3)
Air Inlet Size in.	1/4

SI-1060

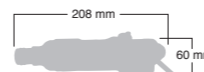
Impact Driver

- 6mm capacity straight grip impact driver
- Compact, lightweight, ergonomic design for easy operation
- General use

Double Hammer



Standard Accessory



Regulator

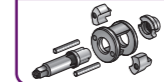
Shank Size in./ (mm)	1/4/(6.35)
Max Torque Nm/(ft-lb)	65/(47.9)
Working Torque Nm/(ft-lb)	0-50/(0-37)
Bolt Cap mm/(in.)	6/(1/4)
Free Speed r.p.m.	11,000
Weight kg/(lb)	0.87/(1.92)
Noise Level dBA/ (power)	89/(100)
Vibration a/k m/s ²	10.8/2.8
Max Air Consumption CFM/ (L/S)	17.4/(8.2)
Avg Air Consumption CFM/ (L/S)	2.9/(1.4)
Air Inlet Size in.	1/4

SI-1065

Impact Driver

- 6mm capacity pistol grip impact driver
- General use
- Ergonomic pistol grip for easy operation

Double Hammer



Standard Accessory



Standard Accessory



Reverse lever

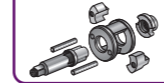
Shank Size in./ (mm)	1/4/(6.35)
Max Torque Nm/(ft-lb)	65/(47.9)
Working Torque Nm/(ft-lb)	0-45/(0-33)
Bolt Cap mm/(in.)	6/(1/4)
Free Speed r.p.m.	11,000
Weight kg/(lb)	0.98/(2.16)
Noise Level dBA/ (power)	88/(99)
Vibration a/k m/s ²	6.9/2.0
Max Air Consumption CFM/ (L/S)	20.4/(9.6)
Avg Air Consumption CFM/ (L/S)	3.4/(1.6)
Air Inlet Size in.	1/4

SI-1356D

Impact Driver

- 8mm capacity pistol grip impact driver
- Double hammer mechanism

Double Hammer



Standard Accessory



Regulator

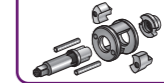
Shank Size in./ (mm)	1/4/(6.35)
Max Torque Nm/(ft-lb)	55/(40.6)
Working Torque Nm/(ft-lb)	0-45/(0-33)
Bolt Cap mm/(in.)	8/(5/16)
Free Speed r.p.m.	9,000
Weight kg/(lb)	1.22/(2.69)
Noise Level dBA/ (power)	87/(98)
Vibration a/k m/s ²	6.6/1.1
Max Air Consumption CFM/ (L/S)	16.2/(7.6)
Avg Air Consumption CFM/ (L/S)	2.7/(1.3)
Air Inlet Size in.	1/4

SI-1365D

Impact Driver

- 8mm capacity pistol grip impact driver
- Industrial use

Double Hammer



Standard Accessory



Standard Accessory



Silencer

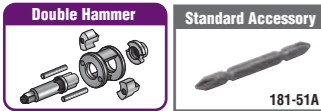
Shank Size in./ (mm)	1/4/(6.35)
Max Torque Nm/(ft-lb)	70/(51.6)
Working Torque Nm/(ft-lb)	0-60/(0-44)
Bolt Cap mm/(in.)	8/(5/16)
Free Speed r.p.m.	8,000
Weight kg/(lb)	1.32/(2.92)
Noise Level dBA/ (power)	84/(95)
Vibration a/k m/s ²	7.6/2.6
Max Air Consumption CFM/ (L/S)	19.8/(9.3)
Avg Air Consumption CFM/ (L/S)	3.3/(1.6)
Air Inlet Size in.	1/4

IMPACT WRENCHES
DRIVERS
RATCHET WRENCHES
SAWERS
POLISHERS
GRINDERS
DRILLS
SPINDLES
CUTTING TOOLS
OTHERS
INDUSTRIAL TOOLS
ACCESSORIES
SOUND & VIBRATION
MAINTENANCE CHECK
QUALITY

SI-1070

Impact Driver

- 6mm capacity pistol grip impact driver
- General use
- Compact, lightweight and a "feather touch" trigger for easy operation.



Reverse lever



Shank Size in./ (mm)	1/4/(6.35)
Max Torque Nm/(ft-lb)	35/(25.8)
Working Torque Nm/(ft-lb)	0-30/(0-22)
Bolt Cap mm/(in.)	6/(1/4)
Free Speed r.p.m.	11,000
Weight kg/(lb)	0.65/(1.43)
Noise Level dBA/ (power)	83/(94)
Vibration a/k m/s ²	6.4/2.1
Max Air Consumption CFM/ (L/S)	12.6/(5.9)
Avg. Air Consumption CFM/ (L/S)	2.1/(1.0)
Air Inlet Size in.	1/4

SI-1170

Screw Driver

- An adjustment ring with easy torque adjustment
- The full composite tool of an original design
- An oscillation is eased by a soft grip



Reverse lever

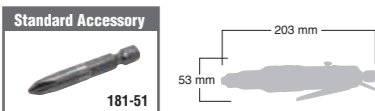


Shank Size in./ (mm)	1/4/(6.35)
Max Torque Nm/(ft-lb)	20/(14.8)
Working Torque Nm/(ft-lb)	4-11/(2.9-8.1)
Bolt Cap mm/(in.)	8/(5/16)
Free Speed r.p.m.	700
Weight kg/(lb)	0.85/(1.87)
Noise Level dBA/ (power)	85/(96)
Vibration a/k m/s ²	0.8/0.5
Max Air Consumption CFM/ (L/S)	13.8/(6.5)
Avg. Air Consumption CFM/ (L/S)	2.3/(1.1)
Air Inlet Size in.	1/4

SI-1140

Screw Driver

- 4mm capacity straight grip screw driver
- Clutch mechanism for easy adjustment of maximum torque



Reverse Button



Shank Size in./ (mm)	1/4/(6.35)
Max Torque Nm/(ft-lb)	1.5/(1.1)
Working Torque Nm/(ft-lb)	0.3-1.5/(0.2-1.1)
Bolt Cap mm/(in.)	4/(5/32)
Free Speed r.p.m.	1,700
Weight kg/(lb)	0.62/(1.36)
Noise Level dBA/ (power)	80/(91)
Vibration a/k m/s ²	0.2/0.5
Max Air Consumption CFM/ (L/S)	11.4/(5.4)
Avg. Air Consumption CFM/ (L/S)	1.9/(0.9)
Air Inlet Size in.	1/4

SI-1161

Screw Driver

- 6mm capacity straight grip screw driver
- Adjustable clutch
- Compact, lightweight, and ergonomic design for easy operation



Reverse Button



Shank Size in./ (mm)	1/4/(6.35)
Max Torque Nm/(ft-lb)	5.0/(3.7)
Working Torque Nm/(ft-lb)	1.5-5.0/(1.1-3.7)
Bolt Cap mm/(in.)	6/(1/4)
Free Speed r.p.m.	1,600
Weight kg/(lb)	1.12/(2.46)
Noise Level dBA/ (power)	85/(96)
Vibration a/k m/s ²	0.3/0.5
Max Air Consumption CFM/ (L/S)	16.8/(7.9)
Avg. Air Consumption CFM/ (L/S)	2.8/(1.3)
Air Inlet Size in.	1/4

SI-1166A

Screw Driver

- 6mm capacity pistol grip screw driver Adjustable clutch
- Ergonomic pistol grip for easy operation



Reverse lever



Shank Size in./ (mm)	1/4/(6.35)
Max Torque Nm/(ft-lb)	5.0/(3.7)
Working Torque Nm/(ft-lb)	1.5-5.0/(1.1-3.7)
Bolt Cap mm/(in.)	6/(1/4)
Free Speed r.p.m.	2,000
Weight kg/(lb)	1.18/(2.60)
Noise Level dBA/ (power)	88/(99)
Vibration a/k m/s ²	0.4/0.5
Max Air Consumption CFM/ (L/S)	21.0/(9.9)
Avg. Air Consumption CFM/ (L/S)	3.5/(1.6)
Air Inlet Size in.	1/4

SI-1166-8A

Screw Driver

- 8mm capacity pistol grip screw driver Adjustable clutch
- Ergonomic pistol grip for easy operation



Reverse lever



Shank Size in./ (mm)	1/4/(6.35)
Max Torque Nm/(ft-lb)	9.0/(6.6)
Working Torque Nm/(ft-lb)	1.5-9.0/(1.1-6.6)
Bolt Cap mm/(in.)	8/(5/16)
Free Speed r.p.m.	800
Weight kg/(lb)	1.35/(2.97)
Noise Level dBA/ (power)	91/(102)
Vibration a/k m/s ²	1.0/0.6
Max Air Consumption CFM/ (L/S)	19.8/(9.3)
Avg. Air Consumption CFM/ (L/S)	3.3/(1.6)
Air Inlet Size in.	1/4



SI-1218EX

RATCHET WRENCHES

- 1/4" RATCHET WRENCHES
- 3/8" RATCHET WRENCHES
- 1/2" RATCHET WRENCHES
- HEX 17mm THROUGH RATCHET WRENCH



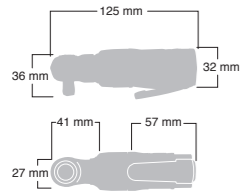
RATCHET WRENCHES

1/4" Ratchet Wrenches · 3/8" Ratchet Wrenches

SI-1107B

1/4" Ratchet Wrench

- Super small ratchet wrench with 1/4"sq. anvil
- Smaller than SI-1200B & SI-1205B

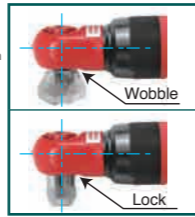
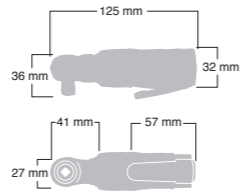


Shank Size in./ (mm)	1/4 / (6.35)
Maximum Torque Nm/ (ft-lb)	30/(22)
Working Torque Range Nm/ (ft-lb)	0-25/(0-18)
Bolt Cap mm/ (in.)	6.35/(1/4)
Free Speed r.p.m.	300
Weight kg/ (lb)	0.39/(0.86)
Noise Level dBA/ (power)	77/(88)
Vibration a/k m/s ²	6.1/1.1
Max Air Consumption CFM/ (L/S)	10.8/(5.1)
Avg. Air Consumption CFM/ (L/S)	1.8/(0.8)
Air Inlet Size in.	1/8

SI-1108B

3/8" Ratchet Wrench

- Super small ratchet wrench with 3/8"sq. anvil
- Smaller than SI-1200B & SI-1205B

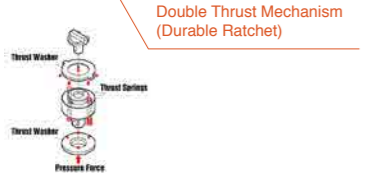


Shank Size in./ (mm)	3/8 / (9.5)
Maximum Torque Nm/ (ft-lb)	30/(22)
Working Torque Range Nm/ (ft-lb)	0-25/(0-18)
Bolt Cap mm/ (in.)	10/(3/8)
Free Speed r.p.m.	300
Weight kg/ (lb)	0.40/(0.88)
Noise Level dBA/ (power)	77/(88)
Vibration a/k m/s ²	6.4/1.1
Max Air Consumption CFM/ (L/S)	10.8/(5.1)
Avg. Air Consumption CFM/ (L/S)	1.8/(0.8)
Air Inlet Size in.	1/8

SI-1217EX

1/4" Ratchet Wrench

- The durable ratchet mechanism increased the lifetime by 30% than before
- Double mold composite body cover for added vibration and cold temperature protection.
- 360° air inlet swivel.

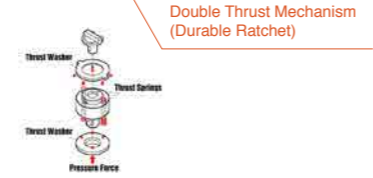


Shank Size in./ (mm)	1/4 / (6.35)
Maximum Torque Nm/ (ft-lb)	43/(31)
Working Torque Range Nm/ (ft-lb)	0-36/(0-26)
Bolt Cap mm/ (in.)	6.35/(1/4)
Free Speed r.p.m.	300
Weight kg/ (lb)	0.54/(1.18)
Noise Level dBA/ (power)	84/(95)
Vibration a/k m/s ²	4.0/0.9
Max Air Consumption CFM/ (L/S)	9.6/(4.5)
Avg. Air Consumption CFM/ (L/S)	1.6/(0.8)
Air Inlet Size in.	1/4

SI-1218EX

3/8" Ratchet Wrench

- The durable ratchet mechanism increased the lifetime by 30% than before
- Double mold composite body cover for added vibration and cold temperature protection.
- 360° air inlet swivel.

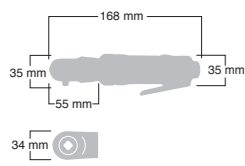


Shank Size in./ (mm)	3/8 / (9.5)
Maximum Torque Nm/ (ft-lb)	45/(35)
Working Torque Range Nm/ (ft-lb)	0-36/(0-25)
Bolt Cap mm/ (in.)	10/(3/8)
Free Speed r.p.m.	300
Weight kg/ (lb)	0.54/(1.20)
Noise Level dBA/ (power)	88/(99)
Vibration a/k m/s ²	4.5/0.9
Max Air Consumption CFM/ (L/S)	9.6/(4.5)
Avg. Air Consumption CFM/ (L/S)	1.6/(0.8)
Air Inlet Size in.	1/4

SI-1200B

1/4" Ratchet Wrench

- Light and small ratchet wrench with 1/4"sq. anvil
- This model is the "Mini Ratchet Wrench" standard in the air tools industry

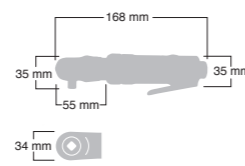


Shank Size in./ (mm)	1/4 / (6.35)
Maximum Torque Nm/ (ft-lb)	35/(26)
Working Torque Range Nm/ (ft-lb)	0-30/(0-22)
Bolt Cap mm/ (in.)	6.35/(1/4)
Free Speed r.p.m.	200
Weight kg/ (lb)	0.51/(1.11)
Noise Level dBA/ (power)	82/(93)
Vibration a/k m/s ²	3.6/0.8
Max Air Consumption CFM/ (L/S)	9.6/(4.5)
Avg. Air Consumption CFM/ (L/S)	1.6/(0.8)
Air Inlet Size in.	1/4

SI-1205B

3/8" Ratchet Wrench

- Light and small ratchet wrench with 3/8"sq. anvil
- This model is the "Mini Ratchet Wrench" standard in the air tools industry



Shank Size in./ (mm)	3/8 / (9.5)
Maximum Torque Nm/ (ft-lb)	40/(30)
Working Torque Range Nm/ (ft-lb)	0-30/(0-22)
Bolt Cap mm/ (in.)	10/(3/8)
Free Speed r.p.m.	220
Weight kg/ (lb)	0.51/(1.12)
Noise Level dBA/ (power)	82/(93)
Vibration a/k m/s ²	5.7/1.0
Max Air Consumption CFM/ (L/S)	9.6/(4.5)
Avg. Air Consumption CFM/ (L/S)	1.6/(0.8)
Air Inlet Size in.	1/4

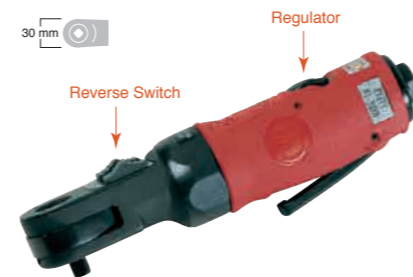
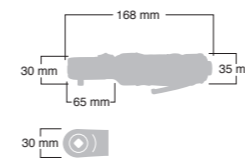
RATCHET WRENCHES

1/2" Ratchet Wrenches · 1/4" Ratchet Wrench · 3/8" Ratchet Wrenches

SI-1251

1/4" Ratchet Wrench

- Japan and foreign patent(s) pending as the "Slide Switch" for the reverse function
- Plastic covered small size body
- 1/4"sq. anvil

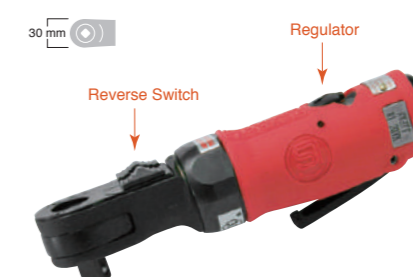
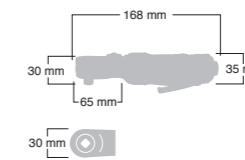


Shank Size in./ (mm)	1/4 / (6.35)
Maximum Torque Nm/ (ft-lb)	45/(33)
Working Torque Range Nm/ (ft-lb)	0-33/(0-24)
Bolt Cap mm/ (in.)	6.35/(1/4)
Free Speed r.p.m.	200
Weight kg/ (lb)	0.56/(1.24)
Noise Level dBA/ (power)	75/(86)
Vibration a/k m/s ²	4.0/0.8
Max Air Consumption CFM/ (L/S)	14.4/(6.8)
Avg. Air Consumption CFM/ (L/S)	2.4/(1.1)
Air Inlet Size in.	1/4

SI-1252

3/8" Ratchet Wrench

- Japan and foreign patent(s) pending as the "Slide Switch" for the reverse function
- Plastic covered small size body
- 3/8"sq. anvil

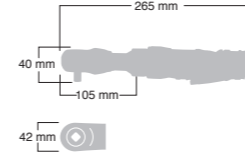


Shank Size in./ (mm)	3/8 / (9.5)
Maximum Torque Nm/ (ft-lb)	47/(35)
Working Torque Range Nm/ (ft-lb)	0-35/(0-26)
Bolt Cap mm/ (in.)	10/(3/8)
Free Speed r.p.m.	200
Weight kg/ (lb)	0.56/(1.24)
Noise Level dBA/ (power)	75/(86)
Vibration a/k m/s ²	3.9/0.8
Max Air Consumption CFM/ (L/S)	14.4/(6.8)
Avg. Air Consumption CFM/ (L/S)	2.4/(1.1)
Air Inlet Size in.	1/4

SI-1340EX

3/8" Ratchet Wrench

- Premium quality ratchet wrench with a rear exhaust and composite body cover.
- Low noise levels and precise planetary gear mechanism for maximum power transfer and durability.
- 360° air inlet swivel.

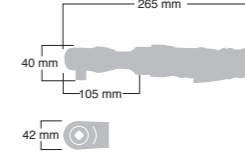


Shank Size in./ (mm)	3/8 / (9.5)
Maximum Torque Nm/ (ft-lb)	110/(81)
Working Torque Range Nm/ (ft-lb)	0-85/(0-63)
Bolt Cap mm/ (in.)	12/(1/2)
Free Speed r.p.m.	160
Weight kg/ (lb)	1.14/(2.50)
Noise Level dBA/ (power)	82/(93)
Vibration a/k m/s ²	4.2/0.9
Max Air Consumption CFM/ (L/S)	15.0/(7.1)
Avg. Air Consumption CFM/ (L/S)	2.5/(1.2)
Air Inlet Size in.	1/4

SI-1345EX

1/2" Ratchet Wrench

- Premium quality ratchet wrench with a rear exhaust and composite body cover.
- Low noise levels and precise planetary gear mechanism for maximum power transfer and durability.
- 360° air inlet swivel.

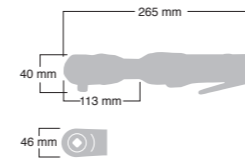


Shank Size in./ (mm)	1/2 / (12.7)
Maximum Torque Nm/ (ft-lb)	115/(85)
Working Torque Range Nm/ (ft-lb)	0-90/(0-66)
Bolt Cap mm/ (in.)	14/(9/16)
Free Speed r.p.m.	160
Weight kg/ (lb)	1.15/(2.53)
Noise Level dBA/ (power)	82/(93)
Vibration a/k m/s ²	4.1/0.9
Max Air Consumption CFM/ (L/S)	15.0/(7.1)
Avg. Air Consumption CFM/ (L/S)	2.5/(1.2)
Air Inlet Size in.	1/4

SI-1320A

3/8" Ratchet Wrench

- Standard ratchet wrench with the front exhaust 3/8"sq. anvil
- Reasonable price

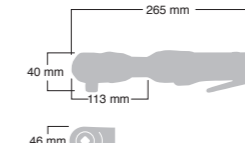


Shank Size in./ (mm)	3/8 / (9.5)
Maximum Torque Nm/ (ft-lb)	80/(59)
Working Torque Range Nm/ (ft-lb)	0-60/(0-44)
Bolt Cap mm/ (in.)	12/(1/2)
Free Speed r.p.m.	160
Weight kg/ (lb)	1.16/(2.57)
Noise Level dBA/ (power)	89/(100)
Vibration a/k m/s ²	6.3/1.1
Max Air Consumption CFM/ (L/S)	16.2/(7.6)
Avg. Air Consumption CFM/ (L/S)	2.7/(1.3)
Air Inlet Size in.	1/4

SI-1325A

1/2" Ratchet Wrench

- Standard ratchet wrench with the front exhaust
- 1/2"sq. anvil
- Best selling model in the world at a reasonable price



Shank Size in./ (mm)	1/2 / (12.7)
Maximum Torque Nm/ (ft-lb)	90/(66)
Working Torque Range Nm/ (ft-lb)	0-70/(0-52)
Bolt Cap mm/ (in.)	14/(9/16)
Free Speed r.p.m.	160
Weight kg/ (lb)	1.17/(2.58)
Noise Level dBA/ (power)	89/(100)
Vibration a/k m/s ²	6.3/1.1
Max Air Consumption CFM/ (L/S)	15.0/(7.1)
Avg. Air Consumption CFM/ (L/S)	2.5/(1.3)
Air Inlet Size in.	1/4

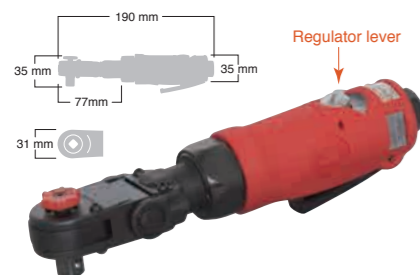
RATCHET WRENCHES

1/2" Ratchet Wrenches · 3/8" Ratchet Wrenches · HEX 17mm Through

SI-1241A

3/8" Ratchet Wrench

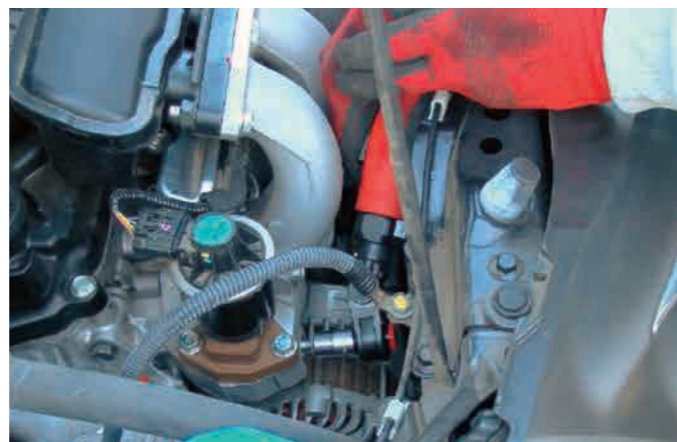
- Swivel head with 9 levels
- An activity is possible at the locations which cannot work in the usual spanner and/or ratchet wrenches.
- The socket lock mechanism does not drop a socket on a narrow place.
- Japan and Foreign patent(s) pending as the "Quick release function" for easily releasing sockets



Shank Size in./ (mm)	3/8 / (9.5)
Maximum Torque Nm/ (ft-lb)	30/(22.1)
Working Torque Range Nm/ (ft-lb)	0.25/(0.18.4)
Bolt Cap mm/ (in.)	10/(3/8)
Free Speed r.p.m.	250
Weight kg/ (lb)	0.63/(1.38)
Noise Level dBA/ (power)	83/(94)
Vibration a/k m/s ²	11.3/1.6
Max Air Consumption CFM/ (L/S)	11.4/(5.4)
Avg Air Consumption CFM/ (L/S)	1.9/(0.9)
Air Inlet Size in.	1/4



Flexible head Quick release

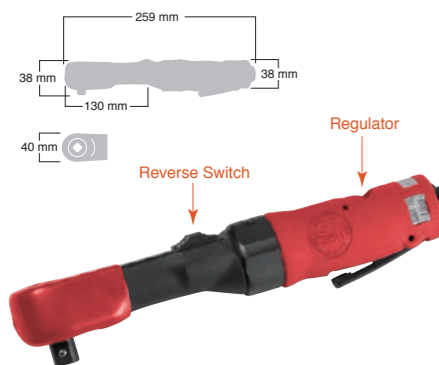


The flexible head can reach at tight spaces.

SI-1261

3/8" Ratchet Wrench

- Japan and foreign patent(s) pending as the "Slide Switch" for the reverse function
- Plastic covered regular size body
- The lightest 960g in this class
- Lightweight and high strength super duralumin is used for housing

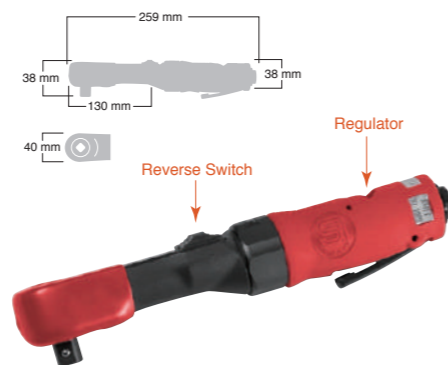


Shank Size in./ (mm)	3/8 / (9.5)
Maximum Torque Nm/ (ft-lb)	110/(81)
Working Torque Range Nm/ (ft-lb)	0.65/(0.48)
Bolt Cap mm/ (in.)	10/(3/8)
Free Speed r.p.m.	170
Weight kg/ (lb)	1.20/(2.65)
Noise Level dBA/ (power)	84/(95)
Vibration a/k m/s ²	5.1/1.0
Max Air Consumption CFM/ (L/S)	18.0/(8.5)
Avg Air Consumption CFM/ (L/S)	3.0/(1.4)
Air Inlet Size in.	1/4

SI-1262

1/2" Ratchet Wrench

- Japan and foreign patent(s) pending as the "Slide Switch" for the reverse function
- Plastic covered regular size body
- The lightest 970g in this class we have ever had
- Lightweight and high strength super duralumin is used for housing



Shank Size in./ (mm)	1/2 / (12.7)
Maximum Torque Nm/ (ft-lb)	115/(85)
Working Torque Range Nm/ (ft-lb)	0.70/(0.52)
Bolt Cap mm/ (in.)	14/(9/16)
Free Speed r.p.m.	170
Weight kg/ (lb)	1.21/(2.67)
Noise Level dBA/ (power)	84/(95)
Vibration a/k m/s ²	5.0/1.0
Max Air Consumption CFM/ (L/S)	18.0/(8.5)
Avg Air Consumption CFM/ (L/S)	3.0/(1.4)
Air Inlet Size in.	1/4

SI-1435

1/2" Ratchet Wrench

- The largest ratchet wrench in the range with the highest torque
- 1/2" sq. anvil
- Good for running nuts on tractor blades

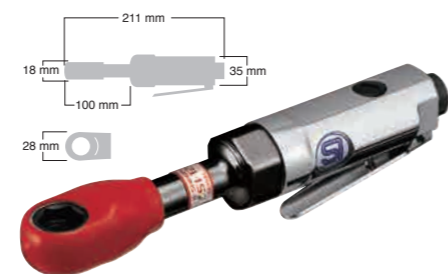


Shank Size in./ (mm)	1/2 / (12.7)
Maximum Torque Nm/ (ft-lb)	160/(118)
Working Torque Range Nm/ (ft-lb)	0.110/(0.81)
Bolt Cap mm/ (in.)	16/(5/8)
Free Speed r.p.m.	140
Weight kg/ (lb)	1.95/(4.31)
Noise Level dBA/ (power)	93/(104)
Vibration a/k m/s ²	5.4/1.0
Max Air Consumption CFM/ (L/S)	28.2/(13.3)
Avg Air Consumption CFM/ (L/S)	4.7/(2.2)
Air Inlet Size in.	1/4

SI-1288

HEX 17mm Through

- Ratchet wrench with the unique interchangeable inner sockets
- Specially designed for using in small space
- Include 8mm, 10mm, 11mm, 12mm, 13mm and 14mm sockets



Shank Size in./ (mm)	HEX 17mm
Maximum Torque Nm/ (ft-lb)	45/(33)
Working Torque Range Nm/ (ft-lb)	0.35/(0.26)
Bolt Cap mm/ (in.)	8-17/(5/16-11/16)
Free Speed r.p.m.	180
Weight kg/ (lb)	0.54/(1.20)
Noise Level dBA/ (power)	84/(95)
Vibration a/k m/s ²	6.8/1.1
Max Air Consumption CFM/ (L/S)	11.4/(5.4)
Avg Air Consumption CFM/ (L/S)	1.9/(0.9)
Air Inlet Size in.	1/4



SI-3121-6

SANDERS

- BELT SANDERS
- CENTRAL VACUUM DUAL ACTION SANDERS
- DUAL ACTION SANDERS
- SELF VACUUM DUAL ACTION SANDERS
- MINI DUAL ACTION SANDERS
- SELF VACUUM GEARED DUAL ACTION SANDERS
- MINI SELF VACUUM DUAL ACTION SANDERS
- ORBITAL SANDERS
- SELF VACUUM ORBITAL SANDERS
- DISC SANDERS
- MINI SANDER
- HEAVY DUTY MINI SANDERS
- OSCILLATION SANDER
- WET SANDER
- MINI ORBITAL FINISHING SANDER

SI-2740

10mm Belt Sander

- 10mm sanding belt sander
- Super light & ergonomic design
- Rubber grip giving comfortable operation and reducing vibration

OPTION

509-45Z/40	10mm Sanding belt #40
509-45Z/80	10mm Sanding belt #80
509-45Z/100	10mm Sanding belt #100
509-45Z/120	10mm Sanding belt #120

SI-2741

12mm Belt Sander

Adjustable 160° Sanding arm

Light weight composite construction

Includes air regulator for quick speed adjustment

Quick change belt replacement lever

	SI-2740	SI-2741
Belt Size mm	10 x 330	12 x 330
Free Speed r.p.m.	15,000	15,000
Out Put Watt	317	317
Weight kg/ (lb)	0.73/(1.61)	0.73/(1.61)
Noise Level dBA/ (power)	85/(96)	85/(96)
Vibration a/k m/s ²	1.0/0.6	1.0/0.6
Max Air Consumption CFM/ (L/S)	19.8/(9.3)	19.8/(9.3)
Avg Air Consumption CFM/ (L/S)	3.3/(1.6)	3.3/(1.6)

SI-2740

Standard Accessory

509-45Z/60

10mm Sanding belt #60x6

SI-2741

Standard Accessory

509-60Z/12

12mm Sanding belt #60x6

SI-2700

10mm Belt Sander

- 10mm sanding belt sander
- Quick and easy belt change
- Adjustable arm angle

OPTION

509-45Z/40	10mm Sanding belt #40
509-45Z/80	10mm Sanding belt #80
509-45Z/100	10mm Sanding belt #100
509-45Z/120	10mm Sanding belt #120

Adjustable 160° Sanding arm

Quick change belt replacement lever

Belt Size mm	10x330
Free Speed r.p.m.	15,000
Out Put Watt	317
Weight kg/ (lb)	0.82/(1.82)
Noise Level dBA/ (power)	86/(99)
Vibration a/k m/s ²	2.2/0.7
Max Air Consumption CFM/ (L/S)	19.8/(9.3)
Avg Air Consumption CFM/ (L/S)	3.3/(1.6)

Standard Accessory

509-45Z/60

10mm Sanding belt #60x6

SI-2700L

10mm Belt Sander

Head rotates 120 degrees for operating convenience. Variable speed throttle for positive control.

- Best for the light grinding, sanding and deburring. (SI-2700L)
- For nugget grinding of spot welding (SI-2700LS)

SI-2700LS

13mm Belt Sander

	SI-2700L	SI-2700LS
Belt Size mm	10x460	13x460
Free Speed r.p.m.	15,000	15,000
Out Put Watt	317	317
Weight kg/ (lb)	0.85/(1.87)	0.9/(1.98)
Noise Level dBA/ (power)	83/(94)	84/(95)
Vibration a/k m/s ²	2.5/0.7	1.6/0.6
Max Air Consumption CFM/ (L/S)	19.8/(9.3)	19.8/(9.3)
Avg Air Consumption CFM/ (L/S)	3.3/(1.6)	3.3/(1.6)

SI-2700L

Standard Accessory

509-130 10mm Felt belt #60 x 1

509-131 10mm Felt belt #150 x 1

509-132 10mm Felt belt #320 x 1

2700LS

Standard Accessory

509LK-106

13mm Sanding belt #60 x 5

SI-2800

20mm Belt Sander

- 20mm sanding belt sander
- Safety cover over belt wheel

SI-2830

30mm Belt Sander

- 30mm sanding belt sander
- Safety cover over belt wheel
- Side handle for firm tool control

Belt Size mm	20x520	30x540
Free Speed r.p.m.	15,000	10,000
Out Put Watt	429	582
Weight kg/ (lb)	1.43/(3.14)	2.02/(4.45)
Noise Level dBA/ (power)	84/(95)	86/(97)
Vibration a/k m/s ²	3.0/0.8	1.6/0.6
Max Air Consumption CFM/ (L/S)	22.8/(10.8)	31.8/(15.0)
Avg Air Consumption CFM/ (L/S)	3.8/(1.8)	5.3/(2.5)

SI-2800

Standard Accessory

507-58Z/60

20mm Sanding belt #60x6

SI-2830

Standard Accessory

505-56Z/40 30mm Sanding belt #40

505-56Z/80 30mm Sanding belt #80

505-56Z/100 30mm Sanding belt #100

505-56Z/120 30mm Sanding belt #120

Standard Accessory

505-56Z/60

30mm Sanding belt #60x6

SI-3121-6

Central Vacuum Dual Action Sander with 6" pad

- Central vacuum dual action sander for dust extraction system and vacuum cleaner
- Light weight and compact palm grip body
- 6" multihole pad giving speedy operation

SI-3121

SI-3121M : Velcro pad model

Central Vacuum Dual Action Sander with 5" pad

	SI-3121-6	SI-3121/3121M
Pad/Disc Size mm/(in.)	150(6")	125(5")
Spindle Size	5/16-24UNF	5/16-24UNF
Orbit Dia mm	5	5
Free Speed r.p.m.	10,000	10,000
Out Put Watt	148	148
Weight kg/ (lb)	1.31/(2.88)	1.29/(2.83)
Noise Level dBA/ (power)	81/(92)	81/(92)
Vibration a/k m/s ²	13.4/1.8	12.8/1.7
Max Air Consumption CFM/ (L/S)	13.8/(6.5)	13.8/(6.5)
Avg Air Consumption CFM/ (L/S)	2.3/(1.1)	2.3/(1.1)

6" Multihole pad

Vacuum power adjuster

SI-3101LG

Dual Action Sander with 5" leather pad

- Low center of gravity dual action sander.
- The stable power can fully be delivered.
- Super light weight and easy to grip composite body cover.

SI-3101LGM

Dual Action Sander with 5" velcro pad

Pad/Disc Size mm/(in.)	125(5")
Spindle Size	5/16-24UNF
Orbit Dia mm	5
Free Speed r.p.m.	10,000
Out Put Watt	148
Weight kg/ (lb)	0.88/(1.94)
Noise Level dBA/ (power)	88/(99)
Vibration a/k m/s ²	13.7/1.8
Max Air Consumption CFM/ (L/S)	13.2/(6.2)
Avg Air Consumption CFM/ (L/S)	2.2/(1.0)

Standard Accessory

SI-3101LG

5" Leather

P-125H

Standard Accessory

SI-3101LGM

5" Velcro

M-125H

Low center of gravity design

SI-3111LG

Self vacuum Dual Action Sander with 5" leather pad

- Low center of gravity self vacuum dual action sander.
- The stable power can fully be delivered.
- Super light weight and easy to grip composite body cover.

SI-3111LGM

Self vacuum Dual Action Sander with 5" velcro pad

Pad/Disc Size mm/(in.)	125(5")
Spindle Size	5/16-24UNF
Orbit Dia mm	5
Free Speed r.p.m.	10,000
Out Put Watt	148
Weight kg/ (lb)	1.23/(2.71)
Noise Level dBA/ (power)	88/(99)
Vibration a/k m/s ²	13.7/1.8
Max Air Consumption CFM/ (L/S)	13.8/(6.5)
Avg Air Consumption CFM/ (L/S)	2.3/(1.1)

Standard Accessory

SI-3111LG

5" Leather

P-125HD

Standard Accessory

SI-3111LGM

5" Velcro

M-125HD

Standard Accessory

1040-54

485-42

Low center of gravity design

SI-3103B

SI-3103BM : Velcro pad model

Dual Action Sander with 5" pad

- Heavy duty action sander for factory work.
- Powerful high quality air motor.
- Durable mechanism ensures a long working life.

SI-3103BM

SI-3103BM : Velcro pad model

Heavy Duty Type

Pad/Disc Size mm/(in.)	125(5")
Spindle Size	5/16-24UNF
Orbit Dia mm	5
Free Speed r.p.m.	9,000
Out Put Watt	134
Weight kg/ (lb)	1.18/(2.60)
Noise Level dBA/ (power)	87/(98)
Vibration a/k m/s ²	15.6/2.0
Max Air Consumption CFM/ (L/S)	16.8/(7.9)
Avg Air Consumption CFM/ (L/S)	2.8/(1.3)

Standard Accessory

SI-3103B

5" Leather

P-125H

Standard Accessory

SI-3103BM

5" Velcro

M-125H

SI-3103A
SI-3103AM : Velcro pad model

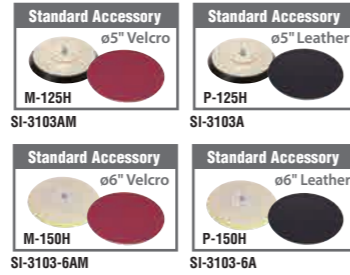
Dual Action Sander with 5" pad

SI-3103-6A
SI-3103-6AM : Velcro pad model

Dual Action Sander with 6" pad

SI-3103A/3103AM SI-3103-6A/3103-6AM

- Standard dual action sander with palm grip 5" pad are available (SI-3103A)
- Powerful, high quality air motor
- 5mm orbit diameter Suitable for both rough and finish sanding
- The same quality features of SI-3103 with 6" pad model (SI-3103-6A)



Pad/Disc Size mm/(in.)	125/(5")	150/(6")
Spindle Size	5/16-24UNF	5/16-24UNF
Orbit Dia mm	5	5
Free Speed r.p.m.	9,000	9,000
Out Put Watt	134	134
Weight kg/(lb)	1.18/(2.60)	1.20/(2.64)
Noise Level dBA/ (power)	80/(91)	80/(91)
Vibration a/k m/s ²	10.6/1.5	11.5/1.6
Max Air Consumption CFM/ (L/S)	16.8/(7.9)	16.8/(7.9)
Avg. Air Consumption CFM/ (L/S)	2.8/(1.3)	2.8/(1.3)

SI-3118A
SI-3118AM : Velcro pad model

Self Vacuum Dual Action Sander with 5" pad

SI-3118-6A
SI-3118-6AM : Velcro pad model

Self Vacuum Dual Action Sander with 6" pad

SI-3118A/3118AM SI-3118-6A/3118-6AM

- Self vacuum dual action sander with 5" pad model (SI-3118A)
- The self generating suction system makes for a clean working environment
- Bar grip body
- Dust free operation protects the operator from the harmful particles of paint and filler
- The same quality features of SI-3118A with 6" pad model (SI-3118-6A)



Pad/Disc Size mm/(in.)	125/(5")	150/(6")
Spindle Size	5/16-24UNF	5/16-24UNF
Orbit Dia mm	6	6
Free Speed r.p.m.	8,000	8,000
Out Put Watt	569	569
Weight kg/(lb)	2.11/(4.65)	2.15/(4.74)
Noise Level dBA/ (power)	81/(92)	81/(92)
Vibration a/k m/s ²	9.0/1.4	10.1/1.5
Max Air Consumption CFM/ (L/S)	17.4/(8.2)	17.4/(8.2)
Avg. Air Consumption CFM/ (L/S)	2.9/(1.4)	2.9/(1.4)

SI-3113A
SI-3113AM : Velcro pad model

Self Vacuum Dual Action Sander with 5" pad

SI-3113-6A
SI-3113-6AM : Velcro pad model

Self Vacuum Dual Action Sander with 6" pad

SI-3113A/3113AM SI-3113-6A/3113-6AM

- Self vacuum dual action sander with 5" pad model (SI-3113A)
- The self generating dust system helps create a clean working environment, protecting the operator from harmful paint and filler particles
- Light weight and compact palm grip body
- The same quality features of SI-3113 with 9 holes 6" leather pad model (SI-3113-6A)



Pad/Disc Size mm/(in.)	125/(5")	150/(6")
Spindle Size	5/16-24UNF	5/16-24UNF
Orbit Dia mm	5	5
Free Speed r.p.m.	9,000	9,000
Out Put Watt	134	134
Weight kg/(lb)	1.57/(3.46)	1.59/(3.50)
Noise Level dBA/ (power)	83/(94)	83/(94)
Vibration a/k m/s ²	13.6/1.8	13.2/2.9
Max Air Consumption CFM/ (L/S)	14.4/(6.8)	14.4/(6.8)
Avg. Air Consumption CFM/ (L/S)	2.4/(1.1)	2.4/(1.1)

SI-3115R

Self Vacuum Geared Dual Action Sander with 5" pad

SI-3115R-6

Self Vacuum Geared Dual Action Sander with 6" pad

SI-3115R SI-3115R-6

- Geared sander with 5" Velcro pad. (SI-3115R)
- Amazing power is generated with the gear mechanism
- The same quality features of SI-3115R with 6" velcro pad model (SI-3115R-6)



Pad/Disc Size mm/(in.)	125/(5")	150/(6")
Orbit Dia mm	4.4	4.4
Free Speed r.p.m.	1,000	1,000
Out Put Watt	148	148
Weight kg/(lb)	1.49/(3.27)	1.51/(3.33)
Noise Level dBA/ (power)	86/(97)	86/(97)
Vibration a/k m/s ²	11.2/1.6	9.7/2.9
Max Air Consumption CFM/ (L/S)	13.8/(6.5)	13.8/(6.5)
Avg. Air Consumption CFM/ (L/S)	2.3/(1.1)	2.3/(1.1)

SI-3101
SI-3101M : Velcro pad model

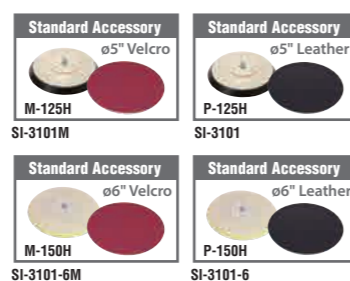
Dual Action Sander with 5" pad

SI-3101-6
SI-3101-6M : Velcro pad model

Dual Action Sander with 6" pad

SI-3101/3101M SI-3101-6/3101-6M

- Light weight and compact palm grip body makes smooth and easy operation
- 5" pad also available 5mm orbit diameter for finish sanding (SI-3101)
- Ergonomic, compact and lightweight design for easy operation
- The same quality features of SI-3101 with 6" pad model (SI-3101-6)

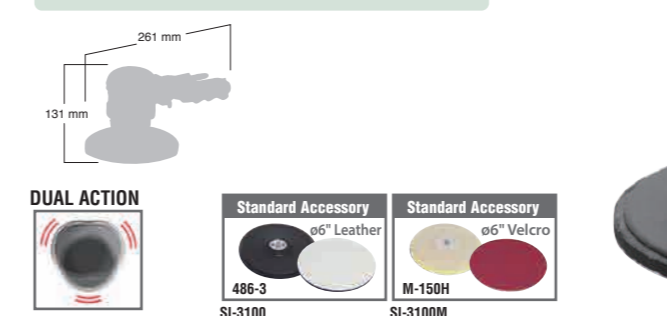


Pad/Disc Size mm/(in.)	125/(5")	150/(6")
Spindle Size	5/16-24UNF	5/16-24UNF
Orbit Dia mm	5	5
Free Speed r.p.m.	10,000	10,000
Out Put Watt	148	148
Weight kg/(lb)	0.92/(2.03)	0.94/(2.07)
Noise Level dBA/ (power)	84/(95)	84/(95)
Vibration a/k m/s ²	14.4/1.9	10.4/2.3
Max Air Consumption CFM/ (L/S)	13.2/(6.2)	13.2/(6.2)
Avg. Air Consumption CFM/ (L/S)	2.2/(1.0)	2.2/(1.0)

SI-3100
SI-3100M : Velcro pad model

Dual Action Sander with 6" pad

- Multi purpose dual action sander with bargrip
- 7mm orbit diameter for aggressive but smooth sanding
- The best and longest selling 6" random orbit model



Pad/Disc Size mm/(in.)	150/(6")
Spindle Size	5/16-24UNF
Orbit Dia mm	7
Free Speed r.p.m.	10,000
Out Put Watt	542
Weight kg/(lb)	1.82/(4.01)
Noise Level dBA/ (power)	75/(86)
Vibration a/k m/s ²	10.2/1.5
Max Air Consumption CFM/ (L/S)	13.8/(6.5)
Avg. Air Consumption CFM/ (L/S)	2.3/(1.1)

SI-3111
SI-3111M : Velcro pad model

Self Vacuum Dual Action Sander with 5" pad

SI-3111-6
SI-3111-6M : Velcro pad model

Self Vacuum Dual Action Sander with 6" pad

SI-3111/3111M SI-3111-6/3111-6M

- Self vacuum dual action sander
- The self generating dust system helps create a clean working environment, protecting the operator from harmful paint and filler particles
- Light weight and compact palm grip body
- The same quality features of SI-3111 with 6" pad model (SI-3111-6)



Pad/Disc Size mm/(in.)	125/(5")	150/(6")
Spindle Size	5/16-24UNF	5/16-24UNF
Orbit Dia mm	5	5
Free Speed r.p.m.	10,000	10,000
Out Put Watt	148	148
Weight kg/(lb)	1.27/(2.81)	1.29/(2.84)
Noise Level dBA/ (power)	88/(99)	88/(99)
Vibration a/k m/s ²	10.2/1.5	11.7/1.6
Max Air Consumption CFM/ (L/S)	13.8/(6.5)	13.8/(6.5)
Avg. Air Consumption CFM/ (L/S)	2.3/(1.1)	2.3/(1.1)

SI-3102M

Mini Dual Action Sander with 3" pad

- Compact body design easy one hand operation



Pad/Disc Size mm/(in.)	75/(3")
Spindle Size	5/16-24UNF
Orbit Dia mm	3
Free Speed r.p.m.	12,000
Out Put Watt	153
Weight kg/(lb)	0.54/(1.19)
Noise Level dBA/ (power)	85/(96)
Vibration a/k m/s ²	7.4/1.2
Max Air Consumption CFM/ (L/S)	15.0/(7.1)
Avg. Air Consumption CFM/ (L/S)	2.5/(1.2)

SI-3112M

Mini Self Vacuum Dual Action Sander with 3" pad

- Compact body design easy one hand operation

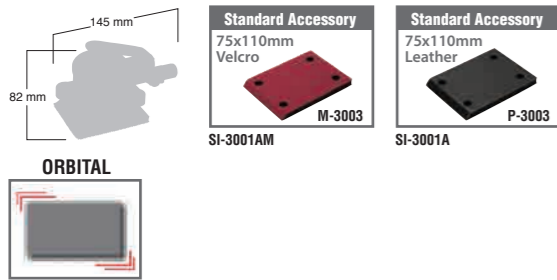


Pad/Disc Size mm/(in.)	75/(3")
Spindle Size	5/16-24UNF
Orbit Dia mm	3
Free Speed r.p.m.	12,000
Out Put Watt	153
Weight kg/(lb)	0.89/(1.96)
Noise Level dBA/ (power)	92/(103)
Vibration a/k m/s ²	6.6/1.1
Max Air Consumption CFM/ (L/S)	15.0/(7.1)
Avg. Air Consumption CFM/ (L/S)	2.5/(1.2)

SI-3001A

Orbital Sander

- Light weight and compact palm grip orbital sander
- Paper size : 75mm x 110mm



SI-3001AM

Orbital Sander with velcro pad

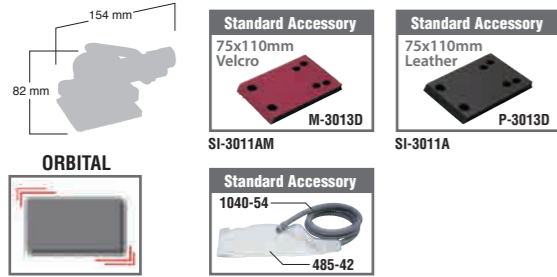


Pad/Disc Size mm/(in.)	75x100
Orbit Dia mm	4
Free Speed r.p.m.	10,000
Out Put Watt	148
Weight kg/ (lb)	0.80/(1.77)
Noise Level dBA/ (power)	82/(93)
Vibration a/k m/s ²	6.2/1.1
Max Air Consumption CFM/ (L/S)	13.8 / (6.5)
Avg.Air Consumption CFM/ (L/S)	2.3/(1.1)

SI-3011A

Self Vacuum Orbital Sander

- Self vacuum orbital sander with palm grip and leather pad
- Light weight and compact body
- Paper size : 75mm x 110mm
- Self generated suction system protects operator from harmful particles of paint and filler



SI-3011AM

Self Vacuum Orbital Sander with velcro pad

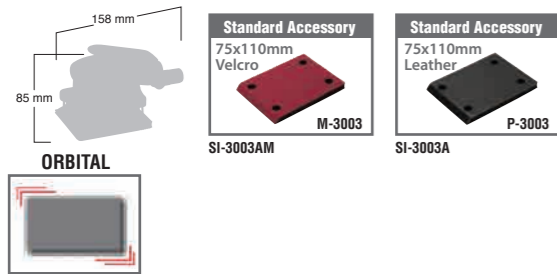


Pad/Disc Size mm/(in.)	75x100
Orbit Dia mm	4
Free Speed r.p.m.	10,000
Out Put Watt	148
Weight kg/ (lb)	1.15/(2.53)
Noise Level dBA/ (power)	83/(94)
Vibration a/k m/s ²	7.4/1.5
Max Air Consumption CFM/ (L/S)	15.0 / (7.1)
Avg.Air Consumption CFM/ (L/S)	2.5/(1.2)

SI-3003A

Orbital Sander

- Palm grip orbital sander
- Paper size : 75mm x 110mm
- Powerful high quality air motor. 4mm orbit diameter



SI-3003AM

Orbital Sander with velcro pad

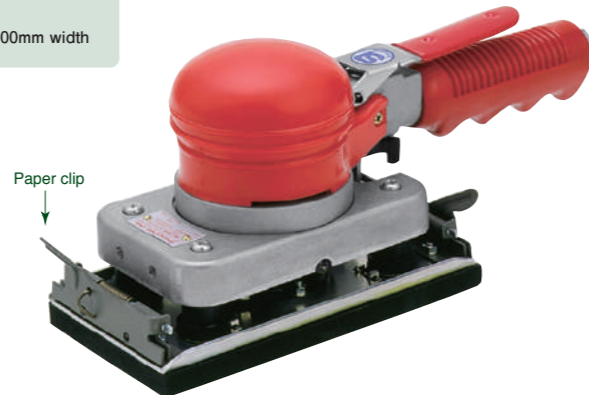
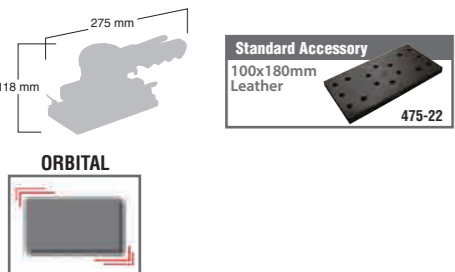


Pad/Disc Size mm/(in.)	75x100
Orbit Dia mm	4
Free Speed r.p.m.	9,000
Out Put Watt	134
Weight kg/ (lb)	1.05/(2.31)
Noise Level dBA/ (power)	75/(86)
Vibration a/k m/s ²	6.9/1.1
Max Air Consumption CFM/ (L/S)	16.8 / (7.9)
Avg.Air Consumption CFM/ (L/S)	2.8/(1.3)

SI-3005

Orbital Sander

- Bar grip orbital sander
- Paper size : 100mm x 180mm
- The tool has paper clips and you can use roll paper abrasive of 100mm width



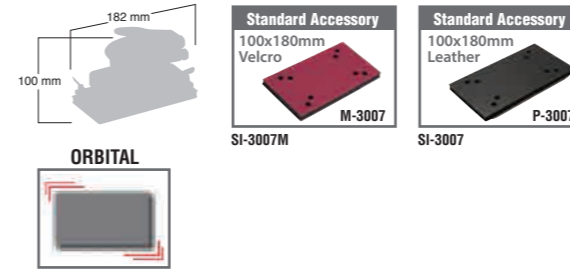
Pad/Disc Size mm/(in.)	90x165
Orbit Dia mm	5
Free Speed r.p.m.	11,000
Out Put Watt	289
Weight kg/ (lb)	1.87/(4.13)
Noise Level dBA/ (power)	88/(99)
Vibration a/k m/s ²	21.1/2.8
Max Air Consumption CFM/ (L/S)	13.8 / (6.5)
Avg.Air Consumption CFM/ (L/S)	2.3/(1.1)

SI-3007

SI-3007M : Velcro pad model

Orbital Sander

- Paper size : 100mm x 180mm
- The tool has paper clips and you can use roll paper abrasive of 100mm width
- One hand grip for easy operation

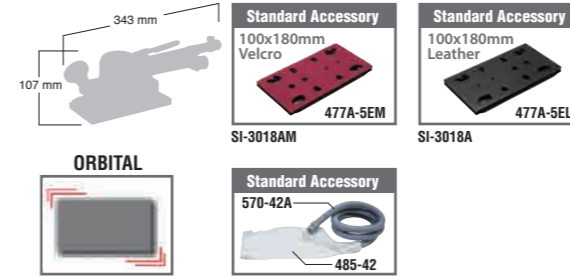


Pad/Disc Size mm/(in.)	95x175
Orbit Dia mm	5
Free Speed r.p.m.	11,000
Out Put Watt	275
Weight kg/ (lb)	1.82/(4.00)
Noise Level dBA/ (power)	86/(97)
Vibration a/k m/s ²	27.5/3.2
Max Air Consumption CFM/ (L/S)	16.8 / (7.9)
Avg.Air Consumption CFM/ (L/S)	2.8/(1.3)

SI-3018A

Self Vacuum Orbital Sander

- Self vacuum orbital sander with bar grip
- Paper size : 100mm x 180mm
- With leather pad or Velcro pad



SI-3018AM

Self Vacuum Orbital Sander with velcro pad

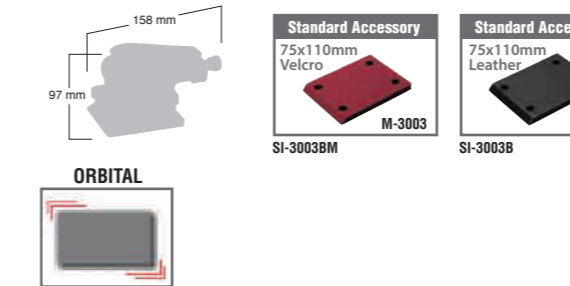


Pad/Disc Size mm/(in.)	95x175
Orbit Dia mm	5
Free Speed r.p.m.	7,000
Out Put Watt	222
Weight kg/ (lb)	2.31/(5.09)
Noise Level dBA/ (power)	83/(94)
Vibration a/k m/s ²	10.2/1.5
Max Air Consumption CFM/ (L/S)	18.6 / (8.8)
Avg.Air Consumption CFM/ (L/S)	3.1/(1.5)

SI-3003B

Orbital Sander

- Light weight & heavyduty orbital sander
- Paper size : 75mm x 110mm



SI-3003BM

Orbital Sander with velcro pad



Heavy Duty Type

Pad/Disc Size mm/(in.)	75x100
Orbit Dia mm	4
Free Speed r.p.m.	8,000
Out Put Watt	134
Weight kg/ (lb)	1.05/(2.31)
Noise Level dBA/ (power)	88/(99)
Vibration a/k m/s ²	4.6/0.9
Max Air Consumption CFM/ (L/S)	16.8 / (7.9)
Avg.Air Consumption CFM/ (L/S)	2.8/(1.3)

SI-2026

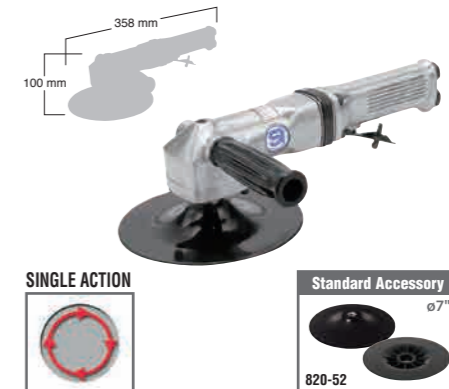
Disc Sander



Pad/Disc Size mm/(in.)	125/(5")
Spindle Size	5/8-11UNC
Free Speed r.p.m.	5,500
Out Put Watt	491
Weight kg/ (lb)	1.50/(3.31)
Noise Level dBA/ (power)	88/(99)
Vibration a/k m/s ²	3.4/0.8
Max Air Consumption CFM/ (L/S)	26.4 / (12.5)
Avg.Air Consumption CFM/ (L/S)	4.4/(2.1)

SI-2351

Disc Sander



Pad/Disc Size mm/(in.)	180/(7")
Spindle Size	5/8-11UNC
Free Speed r.p.m.	4,500
Out Put Watt	458
Weight kg/ (lb)	2.13/(4.70)
Noise Level dBA/ (power)	80/(91)
Vibration a/k m/s ²	4.9/0.9
Max Air Consumption CFM/ (L/S)	24.6 / (11.6)
Avg.Air Consumption CFM/ (L/S)	4.1/(1.9)

SANDERS ACCESSORIES	P-125H	M-125H	P-125HD	M-125HD	P-150H	M-150H	P-150HD 6	M-150HD 6	M-150HDMH	1041CV-5	NP-150-240	1040-54	570-42A	485-42
	5" Leather Pad 5/16-24UNF	5" Velcro Pad 5/16-24UNF	5" Leather Pad with Holes 5/16-24UNF	5" Velcro Pad with Holes 5/16-24UNF	6" Leather Pad 5/16-24UNF	6" Velcro Pad 5/16-24UNF	6" Leather Pad with Holes 5/16-24UNF	6" Velcro Pad with Holes 5/16-24UNF	6" Velcro Pad with Multiholes 5/16-24UNF	6" Velcro Pad Face cover	6" Net Paper	ø19mm Dust Hose	ø25mm Dust Hose	Dust Pack
SI-3121			★	☆									★	
SI-3121M			☆	★									★	
SI-3121-6							☆	☆	★	★	★		★	
SI-3101LG	★	☆												
SI-3101LGM	☆	★												
SI-3111LG			★	☆								★		★
SI-3111LGM			☆	★								★		★
SI-3101	★	☆	☆	☆										
SI-3101M	☆	★	☆	☆										
SI-3101-6					★	☆								
SI-3101-6M					☆	★								
SI-3111			★	☆								★		★
SI-3111M			☆	★								★		★
SI-3111-6						★	☆	☆				★		★
SI-3111-6M						☆	★	☆	☆			★		★
SI-3103A	★	☆	☆	☆										
SI-3103AM	☆	★	☆	☆										
SI-3103-6A					★	☆								
SI-3103-6AM					☆	★								
SI-3113A			★	☆									★	★
SI-3113AM			☆	★									★	★
SI-3113-6A						★	☆	☆					★	★
SI-3113-6AM						☆	★	☆	☆				★	★
SI-3118A			★	☆									★	★
SI-3118AM			☆	★									★	★
SI-3118-6A						★	☆	☆					★	★
SI-3118-6AM						☆	★	☆	☆				★	★
SI-3103B	★	☆	★	☆										
SI-3103BM	☆	★	☆	★										

★ : Standard ☆ : Option

SANDERS ACCESSORIES	M-150H	486-3	1140-14M	1140-59M	M-75H	M-75HD	P-3003	M-3003	P-3013D	M-3013D	475-22	P-3007	M-3007	477A-5EL	477A-5EM	136-45	820-52	1040-54	570-42A	485-42	
	6" Velcro Pad 5/16-24UNF	6" Leather Pad 5/16-24UNF	5" Velcro Pad	6" Velcro Pad	3" Velcro Pad 5/16-24UNF	3" Velcro Pad with 3holes 5/16-24UNF	Leather Pad incl. Plate (490-588) No hole	Velcro Pad incl. Plate (490-588) No hole	Leather Pad incl. Plate (490-588) with hole	Velcro Pad incl. Plate (490-588) with hole	Leather Pad	Leather Pad incl. Plate (477-44)	Velcro Pad incl. Plate (477-44)	Leather Pad incl. 100x180	Velcro Pad incl. 100x180	5" Back Disc	7" Back Disc	ø19mm Dust Hose	ø25mm Dust Hose	Dust Pack	
SI-3100	☆	★																			
SI-3100M	★	☆																			
SI-3115R			★																	★	★
SI-3115R-6				★																★	★
SI-3102M					★																
SI-3112M						★														★	★
SI-3001A								★	☆												
SI-3001AM								☆	★												
SI-3011A										★	☆									★	★
SI-3011AM										☆	★									★	★
SI-3003A								★	☆												
SI-3003AM								☆	★												
SI-3013										★	☆									★	★
SI-3013M										☆	★									★	★
SI-3005											★										
SI-3007												★	☆								
SI-3007M												☆	★								
SI-3018A														★	☆					★	★
SI-3018AM														☆	★					★	★
SI-3003B								★	☆												
SI-3003BM								☆	★												
SI-2026																★					
SI-2351																	★				

BELT SANDER ACCESSORIES	181-45	509-45Z/40	509-45Z/60	509-45Z/80	509-45Z/100	509-45Z/120	509-60Z/12	507-58Z/40	507-58Z/60	507-58Z/80	507-58Z/100	507-58Z/120	505-56Z/40	505-56Z/60	505-56Z/80	505-56Z/100	505-56Z/120	509-130	509-131	509-132	509LK-106	
	Regulator	10mm Sanding belt #40	10mm Sanding belt #60	10mm Sanding belt #80	10mm Sanding belt #100	10mm Sanding belt #120	12mm Sanding belt #60	20mm Sanding belt #40	20mm Sanding belt #60	20mm Sanding belt #80	20mm Sanding belt #100	20mm Sanding belt #120	30mm Sanding belt #40	30mm Sanding belt #60	30mm Sanding belt #80	30mm Sanding belt #100	30mm Sanding belt #120	10mm Felt belt #60	10mm Felt belt #150	10mm Felt belt #320	13mm Sanding belt #60	
SI-2700	☆	☆	★	☆	☆	☆																
SI-2740	★	☆	★	☆	☆	☆																
SI-2741	★						★															
SI-2700L	☆																			★	★	★
SI-2700LS	☆																					★
SI-2800	☆							☆	★	☆	☆	☆										
SI-2830	☆														★	☆	☆	☆				

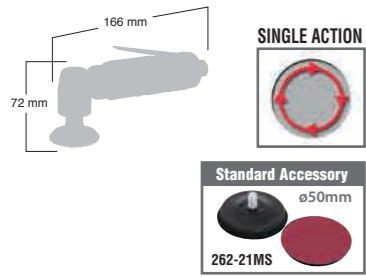


★ : Standard ☆ : Option

SI-2008EX

Heavy Duty Mini Sander

- Angle head sander with 2" pad. Light and compact. It is useful for sanding and polishing work at the narrow place

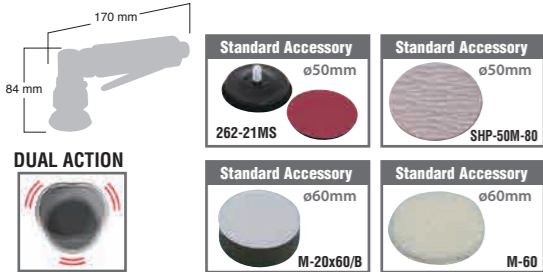


Pad/Disc Size mm/(in.)	50/(2")
Spindle Size	M6x1
Free Speed r.p.m.	14,500
Out Put Watt	175
Weight kg/(lb)	0.57/(1.26)
Noise Level dBA/(power)	83/(94)
Vibration a/k m/s ²	4.0/0.9
Max Air Consumption CFM/(L/S)	16.8/(7.9)
Avg. Air Consumption CFM/(L/S)	2.8/(1.3)

SI-2107A

Mini Sander

- Angle head dual action sander with 2" Velcro pad
- You can use 2" sanding paper, wool buff or sponge buff
- A good tool for sanding and polishing where space is limited
- Dual action for easy operation and a good finish

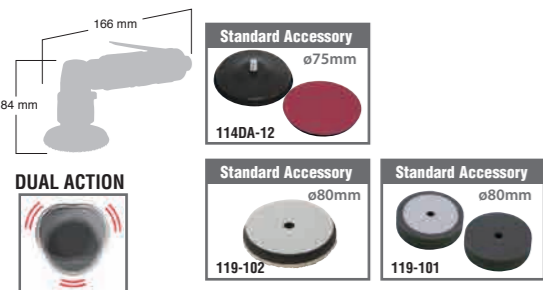


Pad/Disc Size mm/(in.)	50/(2")
Spindle Size	M6x1
Orbit Dia mm	3
Free Speed r.p.m.	14,000
Out Put Watt	127
Weight kg/(lb)	0.55/(1.20)
Noise Level dBA/(power)	85/(96)
Vibration a/k m/s ²	3.8/0.9
Max Air Consumption CFM/(L/S)	13.8/(6.5)
Avg. Air Consumption CFM/(L/S)	2.3/(1.1)

SI-2108EX

Heavy Duty Mini Sander with 3" pad

- Angle head dual action sander with 3" pad.
- The high durable gears included for long time use.

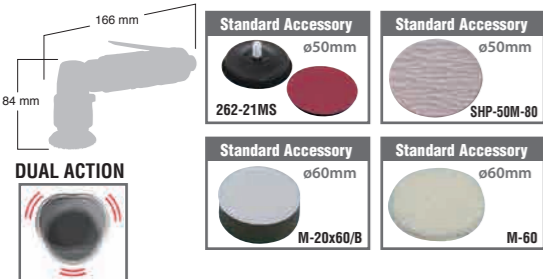


Pad/Disc Size mm/(in.)	75/(3")
Spindle Size	M6x1
Orbit Dia mm	3
Free Speed r.p.m.	15,500
Out Put Watt	175
Weight kg/(lb)	0.62/(1.36)
Noise Level dBA/(power)	85/(96)
Vibration a/k m/s ²	18.5/2.3
Max Air Consumption CFM/(L/S)	14.4/(6.8)
Avg. Air Consumption CFM/(L/S)	2.4/(1.1)

SI-2108EX-2

Heavy Duty Mini Sander with 2" pad

- Angle head dual action sander with 2" pad.
- The high durable gears included for long time use.
- Great for sanding & polishing in confined spaces.

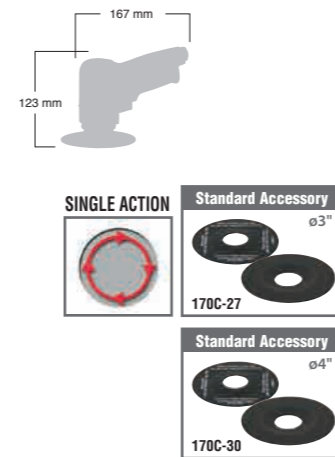


Pad/Disc Size mm/(in.)	50/(2")
Spindle Size	M6x1
Orbit Dia mm	3
Free Speed r.p.m.	15,500
Out Put Watt	175
Weight kg/(lb)	0.62/(1.36)
Noise Level dBA/(power)	85/(96)
Vibration a/k m/s ²	18.5/2.3
Max Air Consumption CFM/(L/S)	14.4/(6.8)
Avg. Air Consumption CFM/(L/S)	2.4/(1.1)

SI-2210

Disc Sander

- A long seller in the market. Very popular high speed disc sander
- Easy one hand operation
- Disc inside dia.

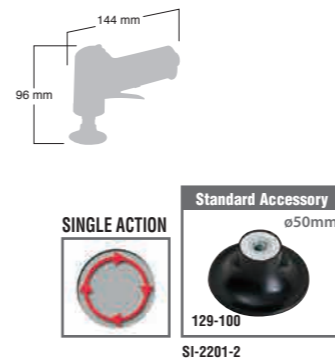


Pad/Disc Size mm/(in.)	75/(3")
Spindle Size	7/16-20UNC
Free Speed r.p.m.	19,000
Out Put Watt	475
Weight kg/(lb)	0.99/(2.17)
Noise Level dBA/(power)	91/(102)
Vibration a/k m/s ²	3.8/1.0
Max Air Consumption CFM/(L/S)	23.4/(11.0)
Avg. Air Consumption CFM/(L/S)	3.9/(1.8)

SI-2201 Without Pad

Disc Sander

- Designed for direct mounting of the 3M Roloc Pad
- No adaptors necessary



SI-2201-2

Disc Sander with 2" pad

Pad/Disc Size mm/(in.)	50/(2")
Spindle Size	1/4-20UNC
Free Speed r.p.m.	17,000
Out Put Watt	174
Weight kg/(lb)	0.50/(1.10)
Noise Level dBA/(power)	82/(93)
Vibration a/k m/s ²	2.2/0.7
Max Air Consumption CFM/(L/S)	15.0/(7.1)
Avg. Air Consumption CFM/(L/S)	2.5/(1.2)

SI-2202 without pad

Disc Sander

SI-2202-2

Disc Sander with 2" pad

- Ideal for the removal of rust, surface deposits, and welds in hard-to-reach areas
- Double-sided, adjustable speed settings provide variability for a broader range of applications
- Designed for direct mounting of the 3M Roloc Pad



Pad/Disc Size mm/(in.)	50/(2")
Spindle Size	1/4-20UNC
Free Speed r.p.m.	15,000
Out Put Watt	168
Weight kg/(lb)	0.46
Noise Level dBA/(power)	82/(93)
Vibration a/k m/s ²	2.3/0.7
Max Air Consumption CFM/(L/S)	15.0/(7.1)
Avg. Air Consumption CFM/(L/S)	2.5/(1.2)

SI-2110S

Mini Dual Action Sander

- Engineered for the most aggressive sanding applications
- Durable ball-bearing construction ensures a smooth power delivery



Pad/Disc Size mm/(in.)	75/(3")
Spindle Size	M6x1
Orbit Dia mm	3
Free Speed r.p.m.	15,000
Out Put Watt	168
Weight kg/(lb)	0.52
Noise Level dBA/(power)	82/(93)
Vibration a/k m/s ²	9.5/2.1
Max Air Consumption CFM/(L/S)	15.0/(7.1)
Avg. Air Consumption CFM/(L/S)	2.5/(1.2)

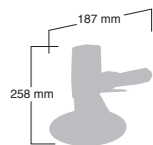
SI-2300

Disc Sander

- Vertical grip for stable and easy operation sander with 7" disc

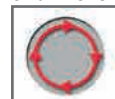


Pad/Disc Size mm/(in.)	180/(7")
Spindle Size	5/8-11UNC
Free Speed r.p.m.	4,000
Out Put Watt	409
Weight kg/(lb)	2.27/(5.01)
Noise Level dBA/(power)	82/(93)
Vibration a/k m/s ²	1.4/0.6
Max Air Consumption CFM/(L/S)	23.4/(11.0)
Avg Air Consumption CFM/(L/S)	3.9/(1.8)



SINGLE ACTION

Standard Accessory



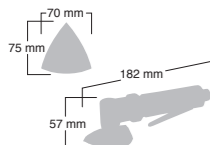
SI-3200A

Oscillation Sander

- Self suck system protects operator from harmful powder of paint and filler
- Oscillating mechanism tool with a triangular pad. For delicate and fine sanding work
- Special designed oscillation sander for narrow place and corner



Pad/Disc Size mm/(in.)	△75x70
Spindle Size	M8x1.25
Oscillating Angle	2.8°
Free Speed o.p.m. ★	21,000
Out Put Watt	173
Weight kg/(lb)	0.65/(1.43)
Noise Level dBA/(power)	83/(94)
Vibration a/k m/s ²	9.6/2.2
Max Air Consumption CFM/(L/S)	14.4/(6.8)
Avg Air Consumption CFM/(L/S)	2.4/(1.1)



OSCILLATION

Standard Accessory



SI-2322WR-LE

Wet Sanding Polisher lever switch

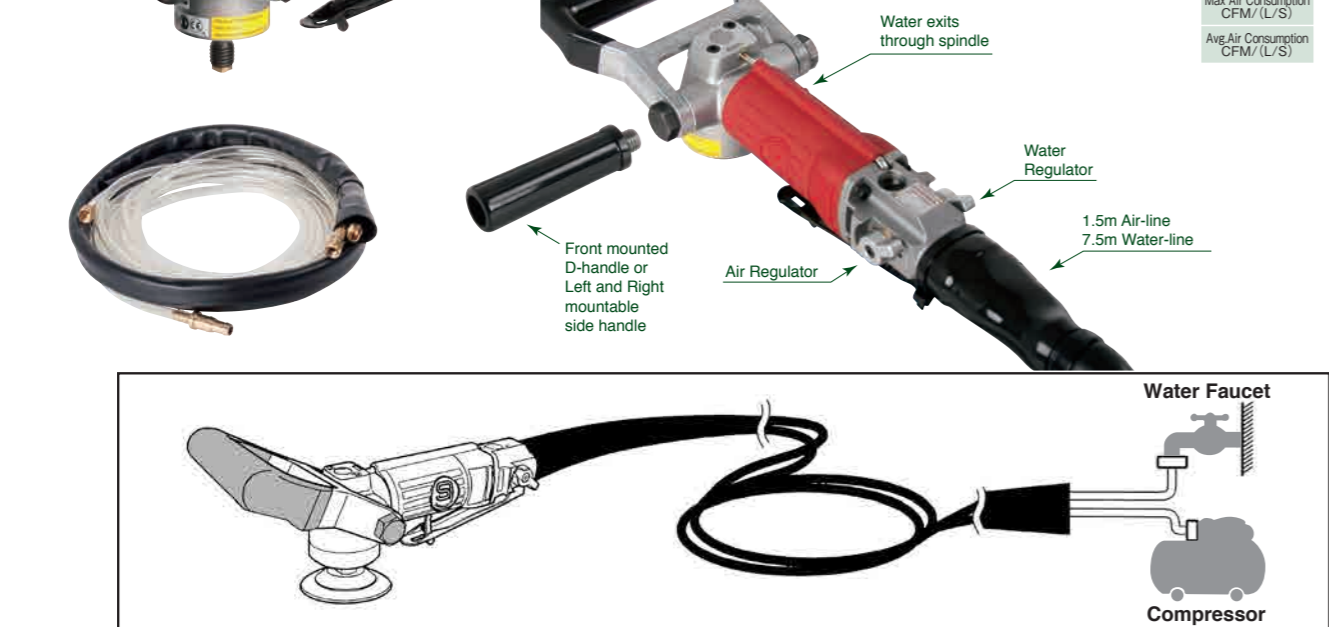
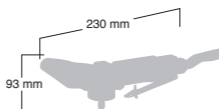
- Wet sander designed for stone sanding and polishing with water
- Supplied with 14mm thread spindle
- Waterproofed mechanism ensures a long working life
- Suitable for diamond polishing and dry marble polishing
- Water exits through spindle



SI-2322WR

Wet Sanding Polisher Non lever Type

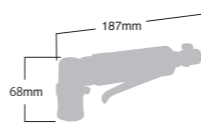
Pad/Disc Size mm/(in.)	φ80
Spindle Size	M14
Free Speed r.p.m.	5,500
Out Put Watt	435
Weight kg/(lb)	1.32/(2.91)
Noise Level dBA/(power)	88/(99)
Vibration a/k m/s ²	1.7/0.6
Max Air Consumption CFM/(L/S)	24.0/(11.3)
Avg Air Consumption CFM/(L/S)	4.0/(1.9)



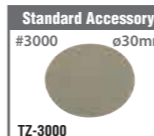
SI-3310

Mini Orbital Finishing Sander

- Special design for the polishing of very small scratches, marks, bubble or dust on fresh paint Surface.
- φ30mm diameter head can help you see the exact point to sand It can reduce buffing area.



ORBITAL



Pad/Disc Size mm/(in.)	φ30
Orbit Dia mm	3
Free Speed r.p.m.	10,000
Out Put Watt	127
Weight kg/(lb)	0.56/(1.23)
Noise Level dBA/(power)	83/(94)
Vibration a/k m/s ²	10.2/2.1
Max Air Consumption CFM/(L/S)	7.2/(3.4)
Avg Air Consumption CFM/(L/S)	1.2/(0.6)



SANDERS ACCESSORIES	MESP-65	262-21MS	SHP-50M-60	TZ-3000	114DA-12	M-20x60B	M-60	119-101	119-102	170C-27	170C-30	820-52	129-100	118-3	115MB-6S	115MB-6H	1110A-80E
	φ65mm Sanding Disc	φ50mm Velcro Pad M6	φ30mm Sanding Paper	φ30mm Sanding Paper	φ75mm Velcro Pad M6	φ60mm Sponge Buff	φ60mm Wool Buff	φ80mm Sponge Buff	φ80mm Wool Buff	3" Disc Pad	4" Disc Pad	7" Back Disc	2" Disc Pad	Triangle Sanding Pad	φ30mm Soft Pad	φ30mm Hard Pad	φ80mm Velcro Pad (M14 P=Z)
SI-2008EX	☆	★	☆			☆	☆										
SI-2107A		★	★			★	★										
SI-2108EX					★			★	★								
SI-2108EX-2		★	★			★	★										
SI-2210										★	☆						
SI-2201														☆			
SI-2201-2														★			
SI-2202														☆			
SI-2202-2														★			
SI-2110S					★												
SI-2300												★					
SI-3200A														★			
SI-2322WR-LE																	☆
SI-2322WR																	☆
SI-3310				★											★	★	

★ : Standard ☆ : Option

SHINANO INC. SANDER LINEUP

Work	Finish			
	Light	Orbital		Heavy
Non Vacuum	SI-3001A	SI-3003A	SI-3005	SI-3003B
Self Vacuum	SI-3011A		SI-3018A	
Non Vacuum			SI-3007	

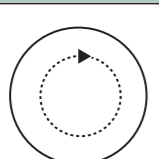
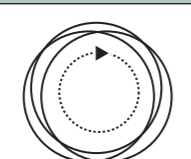
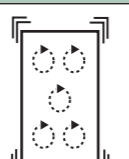
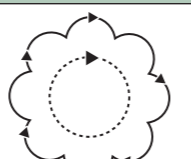






Work	Finish / Rough Finish	
	Light	Dual Action
Non Vacuum		SI-3102M
3 inch		SI-3112M
Self Vacuum		

Work	Finish / Rough Finish				
	Light	Dual Action		Heavy	
5 inch	Non Vacuum	SI-3101 / SI-3101LG	SI-3103A	SI-3118A	SI-3103B
	Self Vacuum	SI-3111 / SI-3111LG	SI-3113A		
6 inch	Non Vacuum	SI-3101-6	SI-3103-6A	SI-3118-6A	
	Self Vacuum	SI-3111-6	SI-3113-6A	SI-3100	

Work	Finish / Rough Finish	
	Light~Heavy	Dual Action
5 inch		SI-3121
6 inch	Central Vacuum	SI-3121-6

Work	Rough Heavy	
	Action	Geard Dual Action
5 inch		SI-3115R
6 inch	Self Vacuum	SI-3115R-6

Sanding Mechanism

Name	Single Sander	Dual Action Sander	Orbital Sander	Geared Action Sander	Belt Sander
Pad type	Round type pad	Round type pad	Square pad	Round type pad	No pad
Movement					
Sanding Style	Single rotation	Double eccentric rotation	Eccentric rotation	Double eccentric rotation	Endless track for one side
Sanding Power	Strong	Little strong	Little Weak	Strong	Strong
Depth	Deep	Shallow	Shallow	Deep	Deep
work	•Peeling •Deburring	Coarse sanding for surface	Coarse & finish sanding for surface	Coarse sanding for surface	•Peeling •Deburring
Orbit Dia	Nothing	3mm~6mm	4mm~5mm	4.4mm	Nothing
SI Model	SI-2026,2351, 2210,2300, 2008,2210, etc	SI-3100,3101,3111,3121 3103A,3113A,3105A, 3118A,2107A,2108, etc	SI-3001A, 3018A,etc	SI-3115R,3115R-6	SI-2700,2700L, 2800,2830,2740 2700LS
					



SI-2415

POLISHERS

- GEARED DUAL ACTION POLISHER
- DUAL ACTION POLISHER
- SINGLE ACTION POLISHERS
- LIGHT SANDER POLISHER



POLISHERS

Geared Dual Action Polisher • Dual Action Polisher • Single Action Polishers

SI-2415

Geared Dual Action Polisher

- Geared polisher with 6" Velcro pad. 1,200r.p.m. low speed and high torque
- Designed for the wax polishing of painted motorcar body panels
- Either a wool buff or sponge buff can be used
- Geared dual action for easy operation



Buff Pad Size mm/(in.)	140/(6")
Orbit Dia mm	4.4
Free Speed r.p.m.	1,200
Weight kg/(lb)	1.45
Noise Level dBA/(power)	86/(97)
Vibration a/k m/s ²	13.1/5.6
Max Air Consumption CFM/(L/S)	20.4/(9.6)
Avg Air Consumption CFM/(L/S)	3.4/(1.6)

GEARED

Standard Accessory
1145-101
ø165mm

Standard Accessory
1145-102
ø165mm

Standard Accessory
1145-5
ø140mm

SI-3100P

Dual Action Polisher

- Dual action polisher with 6" Velcro pad
- Designed for the wax polishing of painted motorcar body panel
- Either a wool buff or sponge buff can be used
- Uniform wax work with dual action
- Professional finish without special skill



Buff Pad Size mm/(in.)	150/(6")
Spindle Size Female	5/16-24UNF
Orbit Dia mm	6
Free Speed r.p.m.	8,000
Out Put Watt	542
Weight kg/(lb)	1.81/(3.99)
Noise Level dBA/(power)	75/(86)
Vibration a/k m/s ²	6.7/3.1
Max Air Consumption CFM/(L/S)	13.8/(6.5)
Avg Air Consumption CFM/(L/S)	2.3/(1.1)

DUAL ACTION

Standard Accessory
400E-102
ø165mm

Standard Accessory
M-150
ø150mm

Standard Accessory
PW-3100
ø6"

SI-2221

Single Action Polisher

- Geared polisher with 3" Velcro pad
- Light and compact body
- Either a wool buff or sponge buff can be used
- Designed for Polishing and Buffing painted surface in confined areas
- The tool most suitable for repairing small scratch or dust on painted surfaces



Buff Pad Size mm/(in.)	75/(3")
Spindle Size Female	M6x1
Free Speed r.p.m.	4,500
Out Put Watt	203
Weight kg/(lb)	0.64/(1.42)
Noise Level dBA/(power)	83/(94)
Vibration a/k m/s ²	1.4/0.6
Max Air Consumption CFM/(L/S)	15.0/(7.1)
Avg Air Consumption CFM/(L/S)	2.5/(1.2)

SINGLE ACTION

Standard Accessory
114DA-12
ø3"

Standard Accessory
119-101
ø80mm

Standard Accessory
119-102
ø80mm

Standard Accessory
NVP75-120
ø75mm

SI-2224S

Single Action Polisher

- Geared polisher with 3" Velcro pad
- Super light weight & compact design with solid composit body
- Based on two-layer molded rubber grip giving comfortable grip and reducing vibration



Buff Pad Size mm/(in.)	75/(3")
Spindle Size Female	M6x1
Free Speed r.p.m.	5,000
Out Put Watt	270
Weight kg/(lb)	0.60/(1.32)
Noise Level dBA/(power)	83/(94)
Vibration a/k m/s ²	1.6/0.6
Max Air Consumption CFM/(L/S)	15.0/(7.1)
Avg Air Consumption CFM/(L/S)	2.5/(1.2)

SINGLE ACTION

Standard Accessory
114DA-12
ø3"

Standard Accessory
119-101
ø80mm

Standard Accessory
119-102
ø80mm

Standard Accessory
NVP75-120
ø75mm

POLISHERS

Single Action Polishers • Light Sander Polisher

SI-2009EX

Single Action Polisher

- Compact body design for reduce weight
- Low Speed Single Action Sander
- New design for 3" pad size



Buff Pad Size mm/(in.)	75/(3")
Spindle Size Female	5/16-24UNF
Free Speed r.p.m.	2,600
OutPut Watt	180
Weight kg/(lb)	0.68/(1.49)
Noise Level dBA/(power)	77/(88)
Vibration a/k m/s ²	1.1/0.6
Max Air Consumption CFM/(L/S)	15.0/(7.1)
Avg Air Consumption CFM/(L/S)	2.5/(1.2)

SINGLE ACTION

Standard Accessory
M-75H
ø3"

Standard Accessory
119-101
ø80mm

Standard Accessory
119-102
ø80mm

SI-2009H

Single Action Polisher

- Compact body design for reduce weight
- High Speed Single Action Sander
- New design for 3" buff pad size



Buff Pad Size mm/(in.)	75/(3")
Spindle Size Female	5/16-24UNF
Free Speed r.p.m.	5,000
OutPut Watt	190
Weight kg/(lb)	0.68/(1.50)
Noise Level dBA/(power)	77/(88)
Vibration a/k m/s ²	2.3/0.7
Max Air Consumption CFM/(L/S)	12.6/(5.9)
Avg Air Consumption CFM/(L/S)	2.1/(1.0)

SINGLE ACTION

Standard Accessory
M-75H
ø3"

Standard Accessory
119-101
ø80mm

Standard Accessory
119-102
ø80mm

SI-2400

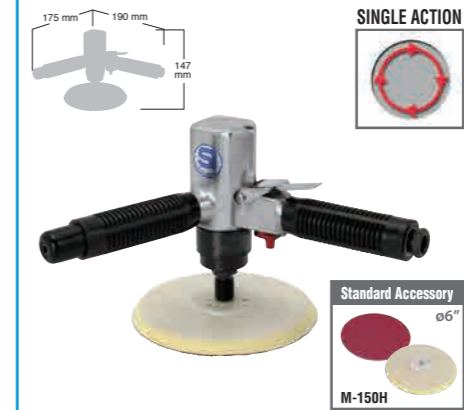
Single Action Polisher



Buff Pad Size mm/(in.)	180/(7")
Spindle Size Male	5/8-11UNC
Free Speed r.p.m.	2,000
Out Put Watt	511
Weight kg/(lb)	2.24/(4.94)
Noise Level dBA/(power)	83/(94)
Vibration a/k m/s ²	1.8/0.6
Max Air Consumption CFM/(L/S)	24.0/(11.3)
Avg Air Consumption CFM/(L/S)	4.0/(1.9)

SI-2405

Light Sander Polisher



Buff Pad Size mm/(in.)	150/(6")
Spindle Size Female	5/16-24UNF
Free Speed r.p.m.	1,800
Out Put Watt	241
Weight kg/(lb)	1.17/(2.58)
Noise Level dBA/(power)	84/(95)
Vibration a/k m/s ²	1.8/1.0
Max Air Consumption CFM/(L/S)	16.8/(7.9)
Avg Air Consumption CFM/(L/S)	2.8/(1.3)

SI-2451

Single Action Polisher



Buff Pad Size mm/(in.)	180/(7")
Spindle Size Male	5/8-11UNC
Free Speed r.p.m.	2,300
Out Put Watt	482
Weight kg/(lb)	2.13/(4.69)
Noise Level dBA/(power)	83/(94)
Vibration a/k m/s ²	2.2/0.7
Max Air Consumption CFM/(L/S)	23.4/(11.0)
Avg Air Consumption CFM/(L/S)	3.9/(1.8)

POLISHERS ACCESSORIES	M-150H	114DA-12	400E-102	M-150	M-75H	119-101	119-102	NVP75-120	1145-101	1145-102	1145-5	820-52	PW-3100
6" Velcro Pad 5/16-24UNF													
ø3" Velcro Pad Thread 6mm													
Sponge Buff													
Wool Buff													
3" Velcro Pad 5/16-24UNF													
ø80mm Sponge Buff													
ø80mm Wool Buff													
ø75mm Sanding Paper #120													
ø165mm Wool Buff													
ø165mm Sponge Buff													
ø138mm Velcro Pad													
7" BackDisc													
6" Velcro Pad 5/16-24UNF													

★ : Standard ☆ : Option



SI-2520L

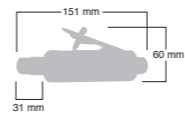
GRINDERS

DIE GRINDERS
CUT OFF GRINDER
DISC GRINDERS
MICRO GRINDERS
WET GRINDER

GRINDERS Die Grinders

SI-2001S Die Grinder

- Small body size die grinder
- 1/4" collet and 6mm collets are available

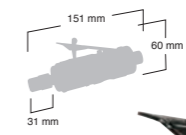


SI-2001S-6 6mm Collet model

SI-2001S	Collet Size	ø1/4"
SI-2001S-6	Collet Size	ø6mm
	Free Speed r.p.m. (MAX)	25,000
	Output Watt	173
	Weight kg/(lb)	0.37/(0.82)
	Noise Level dBA/(power)	84/(95)
	Vibration a/k m/s ²	3.4/0.8
	Max Air Consumption CFM/(L/S)	16.2/(7.6)
	Avg Air Consumption CFM/(L/S)	2.7/(1.3)

SI-2002EX Die Grinder

- Compact, lightweight, ergonomic design
- Double mold composite body cover for added vibration and cold temperature protection
- 1/4" collet and 6mm collets are available

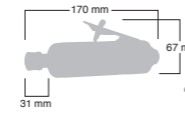


SI-2002EX-6 6mm Collet model

SI-2002EX	Collet Size	ø1/4"
SI-2002EX-6	Collet Size	ø6mm
	Free Speed r.p.m. (MAX)	27,000
	Output Watt	219
	Weight kg/(lb)	0.37/(0.83)
	Noise Level dBA/(power)	84/(95)
	Vibration a/k m/s ²	2.3/0.7
	Max Air Consumption CFM/(L/S)	15.6/(7.4)
	Avg Air Consumption CFM/(L/S)	2.6/(1.2)

SI-2011S Die Grinder

- Medium body size die grinder
- 1/4" collet and 6mm collets are available
- Rear exhaust directs air away from operator and work place
- Lever throttle with safety lock
- Compact, lightweight, ergonomic design and feather touch throttle lever for easy operation

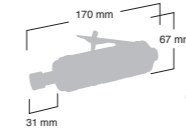


SI-2011S-6 6mm Collet model

SI-2011S	Collet Size	ø1/4"
SI-2011S-6	Collet Size	ø6mm
	Free Speed r.p.m. (MAX)	25,000
	Output Watt	422
	Weight kg/(lb)	0.60/(1.32)
	Noise Level dBA/(power)	87/(98)
	Vibration a/k m/s ²	6.5/1.1
	Max Air Consumption CFM/(L/S)	24.0/(11.3)
	Avg Air Consumption CFM/(L/S)	4.0/(1.9)

SI-2012EX Die Grinder

- Medium body size die grinder
- 1/4" collet and 6mm collets are available
- Compact, lightweight, ergonomic design and feather touch throttle lever
- Double mold composite body cover for added vibration and cold temperature protection

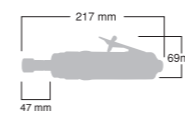


SI-2012EX-6 6mm Collet model

SI-2012EX	Collet Size	ø1/4"
SI-2012EX-6	Collet Size	ø6mm
	Free Speed r.p.m. (MAX)	25,000
	Output Watt	388
	Weight kg/(lb)	0.60/(1.31)
	Noise Level dBA/(power)	87/(98)
	Vibration a/k m/s ²	3.9/1.3
	Max Air Consumption CFM/(L/S)	24.0/(11.3)
	Avg Air Consumption CFM/(L/S)	4.0/(1.9)

SI-2015A Die Grinder

- Planetary geared die grinder. 5,500r.p.m. low speed and high torque
- 1/4" and 6mm collets are available
- Compact, lightweight, ergonomic design and feather touch throttle lever for easy operation
- A plastic body cover absorbs tool vibrations and protects your hand from the cold

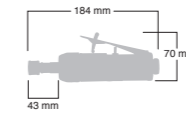


SI-2015A-6 6mm Collet model

SI-2015A	Collet Size	ø1/4"
SI-2015A-6	Collet Size	ø6mm
	Free Speed r.p.m. (MAX)	5,500
	Output Watt	457
	Weight kg/(lb)	0.91/(2.01)
	Noise Level dBA/(power)	88/(99)
	Vibration a/k m/s ²	4.9/0.9
	Max Air Consumption CFM/(L/S)	25.2/(11.9)
	Avg Air Consumption CFM/(L/S)	4.2/(2.0)

SI-2010 Die Grinder

- Compact, lightweight, ergonomic design and feather touch throttle lever for easy operation
- A plastic body cover absorbs tool vibrations and protects your hand from the cold



SI-2010-6 6mm Collet model

SI-2010	Collet Size	ø1/4"
SI-2010-6	Collet Size	ø6mm
	Free Speed r.p.m. (MAX)	23,000
	Output Watt	247
	Weight kg/(lb)	0.52/(1.14)
	Noise Level dBA/(power)	83/(94)
	Vibration a/k m/s ²	5.9/1.0
	Max Air Consumption CFM/(L/S)	10.8/(5.1)
	Avg Air Consumption CFM/(L/S)	1.8/(0.8)

IMPACT WRENCHES
DRIVERS
RATCHET WRENCHES
SAWERS
POLISHERS
GRINDERS
SPINDRILLS
CUTTING TOOLS
OTHERS
INDUSTRIAL TOOLS
ACCESSORIES
SOUND & VIBRATION
MAINTENANCE CHECK
QUALITY

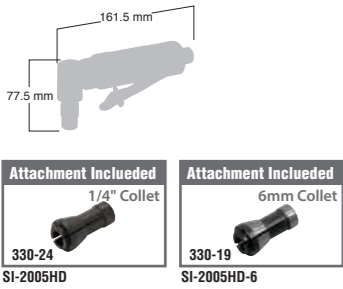
SI-2005HD

Die Grinder

SI-2005HD-6
6mm Collet model

Die Grinder

- Small body size, angle head die grinder with a polymer grip cover
- High durability die grinder
- Compact, lightweight, ergonomic design and feather touch throttle lever for easy operation.
- A plastic body cover absorbs tool vibrations and protects your hand from the cold
- Lever throttle with safety lock



	SI-2005HD	SI-2005HD-6
Collet Size	ø1/4"	ø6mm
Free Speed r.p.m. (MAX)	20,000	20,000
Output Watt	200	200
Weight kg/ (lb)	0.56/(1.23)	0.56/(1.23)
Noise Level dBA/ (power)	81/(92)	81/(92)
Vibration a/k m/s ²	7.3/1.2	7.3/1.2
Max Air Consumption CFM/ (L/S)	14.4/(6.8)	14.4/(6.8)
Avg Air Consumption CFM/ (L/S)	2.4/(1.1)	2.4/(1.1)

SI-2006S

Die Grinder

SI-2006S-6
6mm Collet model

- Small body size, angle head die grinder
- 1/4" collet and 6mm collets are available
- Compact, lightweight, ergonomic design and feather touch throttle lever for easy operation
- Lever throttle with safety lock



	SI-2006S	SI-2006S-6
Collet Size	ø1/4"	ø6mm
Free Speed r.p.m. (MAX)	20,000	20,000
Output Watt	127	127
Weight kg/ (lb)	0.49/(1.08)	0.49/(1.08)
Noise Level dBA/ (power)	83/(94)	83/(94)
Vibration a/k m/s ²	7.4/1.6	7.4/1.6
Max Air Consumption CFM/ (L/S)	13.8/(6.5)	13.8/(6.5)
Avg Air Consumption CFM/ (L/S)	2.3/(1.1)	2.3/(1.1)

SI-2022S

Die Grinder

SI-2022S-6
6mm Collet model

- Die grinder with the extended shaft
- 1/4" collet and 6mm collets are available
- Special designed extended die grinder for unreachable place

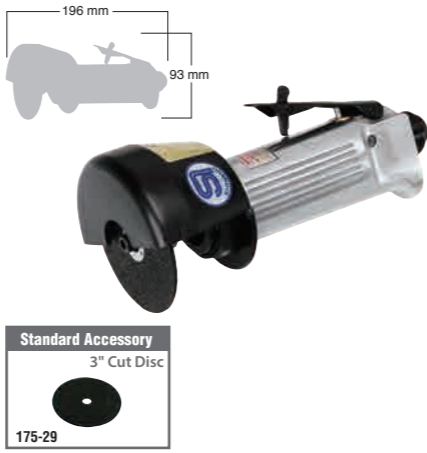


	SI-2022S	SI-2022S-6
Collet Size	ø1/4"	ø6mm
Free Speed r.p.m. (MAX)	24,000	24,000
Output Watt	537	537
Weight kg/ (lb)	1.34/(2.94)	1.34/(2.94)
Noise Level dBA/ (power)	89/(100)	89/(100)
Vibration a/k m/s ²	4.1/0.9	4.1/0.9
Max Air Consumption CFM/ (L/S)	27.0/(12.7)	27.0/(12.7)
Avg Air Consumption CFM/ (L/S)	4.5/(2.1)	4.5/(2.1)

SI-2033

Cut off Grinder

- A straight grinder designed for 3" cut off discs
- For cutting sheet metal or pipe
- Especially useful for cutting the exhaust pipe on motorcars
- Compact and lightweight body with lever throttle for safety operation



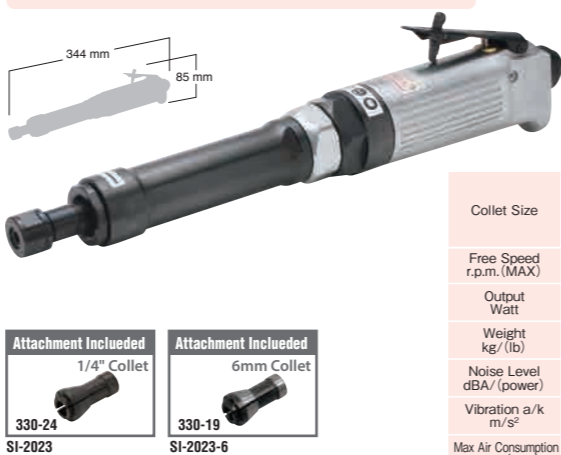
	SI-2033
Disc Size mm/ (in.)	75/(3")
Spindle Size	ø9.5/(3/8")
Free Speed r.p.m. (MAX)	20,000
Output Watt	347
Weight kg/ (lb)	1.00/(2.21)
Noise Level dBA/ (power)	89/(100)
Vibration a/k m/s ²	7.5/2.4
Max Air Consumption CFM/ (L/S)	24.0/(11.3)
Avg Air Consumption CFM/ (L/S)	4.0/(1.9)

SI-2023

Die Grinder

SI-2023-6
6mm Collet model

- Low Speed Die Grinder
- 1/4" collet and 6mm collets are available
- Sander with the extended shaft
- Special designed extended Sander for unreachable place



	SI-2023	SI-2023-6
Collet Size	ø1/4"	ø6mm
Free Speed r.p.m. (MAX)	6,000	6,000
Output Watt	435	435
Weight kg/ (lb)	1.70/(3.75)	1.70/(3.75)
Noise Level dBA/ (power)	90/(101)	90/(101)
Vibration a/k m/s ²	4.0/0.9	4.0/0.9
Max Air Consumption CFM/ (L/S)	22.8/(10.8)	22.8/(10.8)
Avg Air Consumption CFM/ (L/S)	3.8/(1.9)	3.8/(1.9)

SI-2501L

Disc Grinder
Lever Switch

- Light weight 4" disc grinder with rotary throttle
- 40% lighter than SI-2500
- Speed governor assures safety operation
- Precise gear mechanism assures the highest power transfer, durability and reduced vibration



SI-2501

Disc Grinder
Rotary Switch

	SI-2501L	SI-2501
Disc Size mm/ (in.)	100/(4")	100/(4")
Spindle Size	M10x1.5	M10x1.5
Free Speed r.p.m. (MAX)	13,000	13,000
Output Watt	303	303
Weight kg/ (lb)	1.04/(2.29)	0.91/(2.01)
Noise Level dBA/ (power)	81/(92)	82/(93)
Vibration a/k m/s ²	9.6/3.1	8.4/2.8
Max Air Consumption CFM/ (L/S)	16.2/(7.6)	13.2/(6.2)
Avg Air Consumption CFM/ (L/S)	2.7/(1.3)	2.2/(1.0)

SI-2500L

Disc Grinder
Lever Switch

- The high quality air motor used ensures the highest power and durability, while reducing vibration
- A trouble free tool for industry use



SI-2500

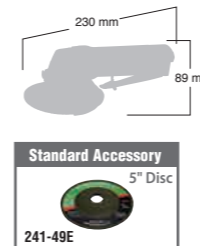
Disc Grinder
Rotary Switch

	SI-2500L	SI-2500
Disc Size mm/ (in.)	100/(4")	100/(4")
Spindle Size	M10x1.5	M10x1.5
Free Speed r.p.m. (MAX)	12,700	12,700
Output Watt	443	443
Weight kg/ (lb)	1.82/(4.02)	1.87/(4.11)
Noise Level dBA/ (power)	80/(91)	84/(95)
Vibration a/k m/s ²	9.9/3.2	7.6/2.5
Max Air Consumption CFM/ (L/S)	16.2/(7.6)	14.4/(6.8)
Avg Air Consumption CFM/ (L/S)	2.7/(1.3)	2.4/(1.1)

SI-2515LA

Disc Grinder

- 5" Disc grinder with safety lever throttle and 14mm thread spindle
- Speed governor assures safety operation
- Spindle lock button enable exchanging disc quickly
- Rear exhaust and lever throttle with safety lock
- Disc one push lock button model



	SI-2515LA
Disc Size mm/ (in.)	125/(5")
Spindle Size	M14x2
Free Speed r.p.m. (MAX)	12,000
Output Watt	570
Weight kg/ (lb)	1.93/(4.27)
Noise Level dBA/ (power)	85/(96)
Vibration a/k m/s ²	11.0/3.6
Max Air Consumption CFM/ (L/S)	16.8/(7.9)
Avg Air Consumption CFM/ (L/S)	2.8/(1.3)

SI-2505L

Disc Grinder

- 5" Disc grinder with safety lever throttle
- For this model because of the safety reason
- Speed governor assures safety operation
- Lever throttle with safety lock



	SI-2505L
Disc Size mm/ (in.)	125/(5")
Disc Hole Size	ø22/(7/8")
Free Speed r.p.m. (MAX)	12,000
Output Watt	443
Weight kg/ (lb)	1.91/(4.22)
Noise Level dBA/ (power)	82/(93)
Vibration a/k m/s ²	5.8/1.9
Max Air Consumption CFM/ (L/S)	19.8/(9.3)
Avg Air Consumption CFM/ (L/S)	3.3/(1.6)

SI-2520L

New
5" Angle Disc Grinder

- 5" Disc grinder with safety lever throttle and 14mm thread spindle.
- Speed governor assures safety operation.
- Spindle lock button enable exchanging disc quickly.
- Disc cover is easy to change the disc cover position.
- 105 Degrees for comfortable operation.
- Composite housing prevents cold hands even if you works long time.



Disc Size mm/(in.)	125/(5")
Spindle Size	M14x2
Free Speed r.p.m. (MAX)	12,000
Output Watt	610
Weight kg/ (lb)	1.85/(4.07)
Noise Level dBA/ (power)	76.4/(87.4)
Vibration a/k m/s ²	1.56/(0.51)
Max Air Consumption CFM/ (L/S)	16.8/(7.8)
Avg Air Consumption CFM/ (L/S)	2.8/(1.3)

Option

247-25 Exhaust Hose 50cm

106-3 Wipe Hose 1.35m



Adjustable disc cover



Side View



SI-2515WE

Wet Grinder

- Heavy duty rear exhaust wet grinder for use with 5" disc & diamond cup wheels
- Include air hose, water hose and wrenches
- Waterproof mechanism ensure a long working life

Disc Size mm/(in.)	125/(5")
Spindle Size	M14x2
Free Speed r.p.m. (MAX)	10,000
Output Watt	570
Weight kg/ (lb)	2.01/(4.43)
Noise Level dBA/ (power)	85/(96)
Vibration a/k m/s ²	11.0/3.6
Max Air Consumption CFM/ (L/S)	16.8/(7.9)
Avg Air Consumption CFM/ (L/S)	2.8/(1.3)

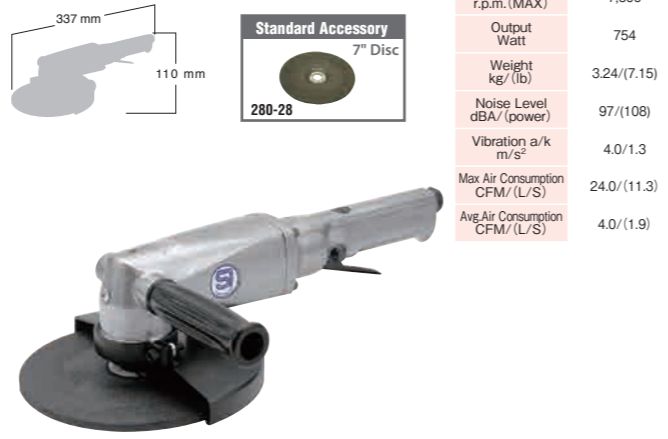


SI-2600L

Disc Grinder

- 7" Disc grinder with safety lever throttle
- Speed governor assures safety operation
- High quality air motor assures high power, durability, reducing vibration and trouble free use

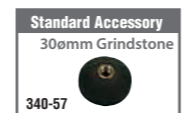
Disc Size mm/(in.)	180/(7")
Disc Hole Size	M10x1.5
Free Speed r.p.m. (MAX)	7,500
Output Watt	754
Weight kg/ (lb)	3.24/(7.15)
Noise Level dBA/ (power)	97/(108)
Vibration a/k m/s ²	4.0/1.3
Max Air Consumption CFM/ (L/S)	24.0/(11.3)
Avg Air Consumption CFM/ (L/S)	4.0/(1.9)



SI-2050AG

Micro Grinder

- High speed angle head disc grinder with 30mm diameter disc
- 21,000r.p.m.
- For exact and delicate work



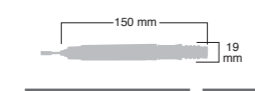
Disc Size mm/(in.)	ø30
Spindle Size	M7x0.75
Free Speed r.p.m. (MAX)	21,000
Weight kg/ (lb)	0.23/(0.52)
Noise Level dBA/ (power)	71/(82)
Vibration a/k m/s ²	0.9/0.3
Max Air Consumption CFM/ (L/S)	6.6/(3.1)
Avg Air Consumption CFM/ (L/S)	1.1/(0.5)



SI-2051SG

Micro Grinder

- High speed die grinder with 3mm or 1/8" collet
- Low vibration and noise allows extended use
- Option : 1/8" Dia collet



Collet Size	ø3 , 1/8"
Free Speed r.p.m. (MAX)	50,000
Weight kg/ (lb)	0.19/(0.43)
Noise Level dBA/ (power)	71/(82)
Vibration a/k m/s ²	1.2/0.6
Max Air Consumption CFM/ (L/S)	6.0/(2.8)
Avg Air Consumption CFM/ (L/S)	1.0/(0.5)



GRINDERS ACCESSORIES	330-24	330-19	330-25	330-26	210-5-1A	175-29	240-6	240-71	240C-1	380-44	241-49	280-28	340-57	340-2A	340-2B	340-55
	1/4" Collet	6mm Collet	1/8" Collet	3mm Collet	Dead handle set	3" Cut Disc	4" Disc 15mm Hole	4" Disc 16mm Hole	Disc Nut for 16mm Hole	Disc Nut for 15mm Hole	5" Disc	7" Disc	30mm Grindstone	3mm Collet	1/8" Collet	ø5mm Grindstone (3mm)
SI-2001S	★	☆	☆	☆												
SI-2001S-6	☆	★	☆	☆												
SI-2002EX	★	☆	☆	☆												
SI-2002EX-6	☆	★	☆	☆												
SI-2011S	★	☆	☆	☆												
SI-2011S-6	☆	★	☆	☆												
SI-2012EX	★	☆	☆	☆												
SI-2012EX-6	☆	★	☆	☆												
SI-2015A	★	☆	☆	☆												
SI-2015A-6	☆	★	☆	☆												
SI-2010	★	☆	☆	☆												
SI-2010-6	☆	★	☆	☆												
SI-2005HD	★	☆	☆	☆												
SI-2005HD-6	☆	★	☆	☆												
SI-2006S	★	☆	☆	☆												
SI-2006S-6	☆	★	☆	☆												
SI-2033						★										
SI-2022S	★	☆	☆	☆												
SI-2022S-6	☆	★	☆	☆												
SI-2023	★	☆	☆	☆												
SI-2023-6	☆	★	☆	☆												
SI-2501L							☆	★	★	☆						
SI-2501							★	☆	☆	★						
SI-2500L							☆	★	★	☆						
SI-2500							☆	★	★	☆						
SI-2515LA														★		
SI-2520L														★		
SI-2505L														★		
SI-2600L															★	
SI-2050AG																★
SI-2051SG																★



SI-5405-6

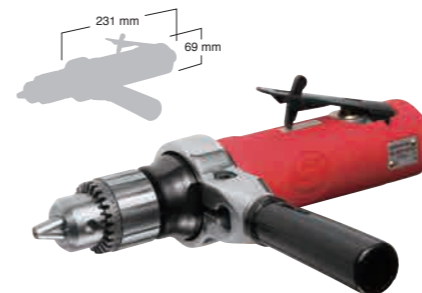
DRILLS / SPOT MILLS

DRILLS
SPOT MILLS

DRILLS / SPOT MILLS Drills

SI-2015AD Drill

- 3/8" capacity geared straight grip drill
- Specially designed tool for use in narrow place



Free Speed r.p.m.	6,000
Chuck Size mm/(in.)	10/(3/8)
Spindle Size	3/8-24UNF
Drilling Cap mm/(in.)	6/(1/4)
Out Put Watt	457
Max Torque Nm/(ft-lb)	2.62/(1.92)
Weight kg/(lb)	1.06/(2.34)
Noise Level dBA/(power)	86/(97)
Vibration a/k m/s ²	2.6/0.7
Max Air Consumption CFM/(L/S)	25.2/(11.9)
Avg Air Consumption CFM/(L/S)	4.2/(2.0)



SI-5100A Drill

- 3/8" capacity geared pistol grip drill
- High speed drill for soft metal



Free Speed r.p.m.	5,000
Chuck Size mm/(in.)	10/(3/8)
Spindle Size	3/8-24UNF
Drilling Cap mm/(in.)	6/(1/4)
Out Put Watt	390
Max Torque Nm/(ft-lb)	3.06/(2.24)
Weight kg/(lb)	0.90/(1.99)
Noise Level dBA/(power)	84/(95)
Vibration a/k m/s ²	3.4/0.8
Max Air Consumption CFM/(L/S)	19.8/(9.3)
Avg Air Consumption CFM/(L/S)	3.3/(1.6)



SI-5200A Drill

- 1/2" capacity, geared, pistol grip drill
- 600r.p.m. low speed and high torque
- Ergonomic, compact, lightweight design with feather touch trigger for easy drill bit centering
- Precise planetary gear mechanism with needle roller assures high power, durability and reducing vibration
- Side handle for greater hand grip and control for easy operation



Free Speed r.p.m.	600
Chuck Size mm/(in.)	13/(1/2)
Spindle Size	3/8-24UNF
Drilling Cap mm/(in.)	13/(1/2)
Out Put Watt	390
Max Torque Nm/(ft-lb)	16.81/(12.40)
Weight kg/(lb)	1.42/(3.12)
Noise Level dBA/(power)	82/(93)
Vibration a/k m/s ²	3.0/1.0
Max Air Consumption CFM/(L/S)	21.0/(9.9)
Avg Air Consumption CFM/(L/S)	3.5/(1.6)



SI-5300A Drill

- 3/8" capacity geared pistol grip drill
- Heavy duty and the best selling model of the drills
- Precise planetary gear mechanism with needle roller assures high power, durability and reducing vibration
- Ergonomic, compact, lightweight design with feather touch trigger for easy centering



Free Speed r.p.m.	2,000
Chuck Size mm/(in.)	10/(3/8)
Spindle Size	3/8-24UNF
Drilling Cap mm/(in.)	10/(3/8)
Out Put Watt	378
Max Torque Nm/(ft-lb)	6.32/(4.64)
Weight kg/(lb)	0.91/(2.01)
Noise Level dBA/(power)	84/(95)
Vibration a/k m/s ²	2.0/0.7
Max Air Consumption CFM/(L/S)	21.6/(10.2)
Avg Air Consumption CFM/(L/S)	3.6/(1.7)



SI-5305A Reversible Drill

- 3/8" capacity geared pistol grip reversible drill
- Handy reverse mechanism
- Can be used for tapping work by utilizing the reverse function



Free Speed r.p.m.	2,000
Chuck Size mm/(in.)	10/(3/8)
Spindle Size	3/8-24UNF
Drilling Cap mm/(in.)	10/(3/8)
Out Put Watt	326
Max Torque Nm/(ft-lb)	F 5.24/(3.85) R 5.71/(4.19)
Weight kg/(lb)	1.02/(2.24)
Noise Level dBA/(power)	90/(101)
Vibration a/k m/s ²	4.7/0.9
Max Air Consumption CFM/(L/S)	23.4/(11.0)
Avg Air Consumption CFM/(L/S)	3.9/(1.8)



SI-5305-8A Reversible Drill

- 1/2" capacity geared pistol grip reversible drill. 800r.p.m. low speed and high torque.
- Handy reverse mechanism
- Can be used for tapping work by utilizing the reverse function
- Side handle for greater hand grip and control for easy operation



Free Speed r.p.m.	800
Chuck Size mm/(in.)	13/(1/2)
Spindle Size	3/8-24UNF
Drilling Cap mm/(in.)	13/(1/2)
Out Put Watt	326
Max Torque Nm/(ft-lb)	11.66/(8.60)
Weight kg/(lb)	1.45/(3.20)
Noise Level dBA/(power)	91/(102)
Vibration a/k m/s ²	6.0/1.6
Max Air Consumption CFM/(L/S)	25.2/(11.9)
Avg Air Consumption CFM/(L/S)	4.2/(2.0)



IMPACT WRENCHES
DRIVERS
RATCHET WRENCHES
SAWERS
POLISHERS
GRINDERS
DRILLS / SPOT MILLS
CUTTING TOOLS
OTHERS
INDUSTRIAL TOOLS
ACCESSORIES
SOUND & VIBRATION
MAINTENANCE CHECK
QUALITY

SI-5501 Drill SI-5506 Reversible Drill

- Super light weight & compact design with solid composite body
- Based on two-layer molded rubber grip giving comfortable grip and reducing vibration
- 3/8" capacity geared pistol grip drill
- A swivel lever for regulator can be used with one hand allowing easy operation

	SI-5501	SI-5506
Free Speed r.p.m.	2,400	1,700
Chuck Size mm/(in.)	10/(3/8)	10/(3/8)
Spindle Size	3/8-24UNF	3/8-24UNF
Drilling Cap mm/(in.)	10/(3/8)	10/(3/8)
Out Put Watt	234	146
Max Torque Nm/(ft-lb)	3.80/(2.79)	F 2.67/(1.96) R 2.58/(1.89)
Weight kg/(lb)	0.60/(1.32)	0.60/(1.32)
Noise Level dBA/(power)	80/(91)	80/(91)
Vibration a/k m/s ²	2.6/0.7	1.9/0.6
Max Air Consumption CFM/(L/S)	13.2/(6.2)	14.4/(6.8)
Avg Air Consumption CFM/(L/S)	2.2/(1.0)	2.4/(1.1)

Standard Accessory
 Chuck: KD-002 (3/8" Drill Chuck w/Handle KG1)
 Handle: (included)

SI-5506 Reverse Lever

SI-5355 Angle Head Drill

- 3/8" capacity geared angle head drill
- Designed to facilitate drilling in confined places

Free Speed r.p.m.	1,200
Chuck Size mm/(in.)	10/(3/8)
Spindle Size	3/8-24UNF
Drilling Cap mm/(in.)	10/(3/8)
Out Put Watt	180
Max Torque Nm/(ft-lb)	F 4.54/(3.37) R 4.37/(3.21)
Weight kg/(lb)	0.94/(2.07)
Noise Level dBA/(power)	84/(95)
Vibration a/k m/s ²	3.2/0.8
Max Air Consumption CFM/(L/S)	18.0/(8.5)
Avg Air Consumption CFM/(L/S)	3.0/(1.4)

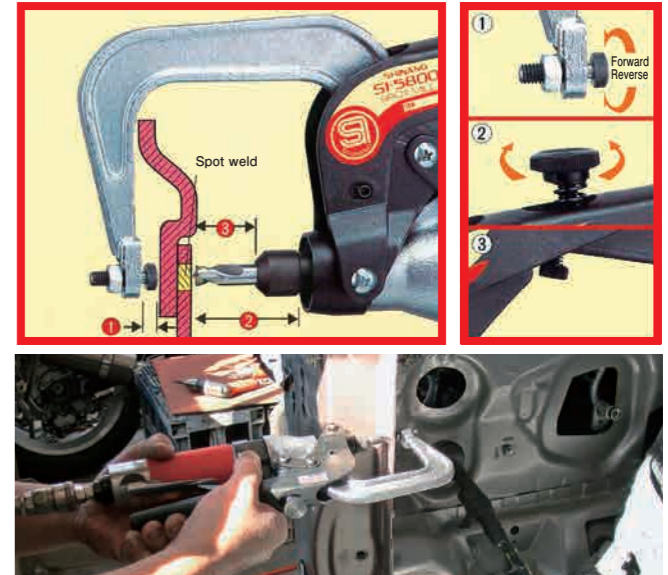
Standard Accessory
 Chuck: KD-004 (3/8" Drill Chuck w/Handle KK)
 Handle: (included)

SI-5800 Spot Mill

- Specially designed to remove spot welds on body panels of motorcars. Work guide makes easy operation
- Easy to adjust depth of cut
- Special designed tool for spot welding separation
- With ø8mm Mill
- With sleeve for ø6.5mm Mill

Free Speed r.p.m.	1,600
Chuck Size mm/(in.)	8/(5/8)
Endmill Size	ø8
Milling Cap mm/(in.)	8/(5/16)
Out Put Watt	197
Weight kg/(lb)	1.80/(3.96)
Noise Level dBA/(power)	82/(93)
Vibration m/s ²	<2.5
Max Air Consumption CFM/(L/S)	18.0/(8.5)
Avg Air Consumption CFM/(L/S)	3.0/(1.4)

Standard Accessory
 271-17



SI-5405 Reversible Drill

- Triple idler planetary gearing for smooth operation and extended tool life.
- Body end mounted reverse lever for one hand directional changes.
- High quality 3/8" chuck.

Free Speed r.p.m.	1,500
Chuck Size mm/(in.)	10/(3/8)
Spindle Size	3/8-24UNF
Drilling Cap mm/(in.)	10/(3/8)
Out Put Watt	197
Max Torque Nm/(ft-lb)	F 4.83/(3.55) R 4.70/(3.45)
Weight kg/(lb)	1.08/(2.38)
Noise Level dBA/(power)	80/(91)
Vibration a/k m/s ²	2.9/0.9
Max Air Consumption CFM/(L/S)	14.4/(6.8)
Avg Air Consumption CFM/(L/S)	2.4/(1.1)

Standard Accessory
 (Yukiwa)
 LX10

SI-5405-6 Reversible Drill

- Side handle assures easy operation and prevent wrist from injuries.
- Double reduction mechanism for exceptional power.
- 1/2" capacity standard rated grill chuck.

Free Speed r.p.m.	600
Chuck Size mm/(in.)	13/(1/2)
Spindle Size	3/8-24UNF
Drilling Cap mm/(in.)	13/(1/2)
Out Put Watt	186
Max Torque Nm/(ft-lb)	10.58/(7.80)
Weight kg/(lb)	1.41/(3.10)
Noise Level dBA/(power)	82/(93)
Vibration a/k m/s ²	3.4/0.8
Max Air Consumption CFM/(L/S)	13.8/(6.5)
Avg Air Consumption CFM/(L/S)	2.3/(1.1)

Standard Accessory
 (Yukiwa)
 LM13W

Standard Accessory
 210-5-1A

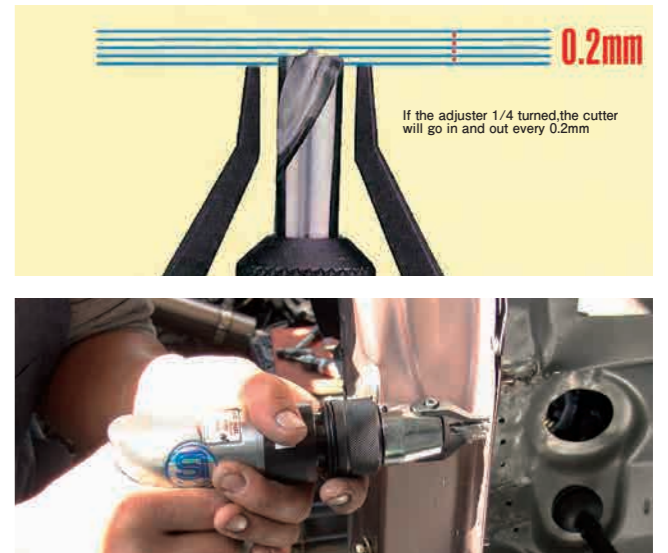
SI-5850 Spot Mill

- Specially designed to remove spot welds on body panel of motorcars
- Work guide makes easy operation
- Easy to adjust depth of cut
- Special designed tool for spot welding separation
- With ø8mm Mill

Free Speed r.p.m.	2,000
Chuck Size mm/(in.)	8/(5/8)
Endmill Size	ø8
Milling Cap mm/(in.)	8/(5/16)
Out Put Watt	390
Weight kg/(lb)	1.39/(3.06)
Noise Level dBA/(power)	83/(94)
Vibration m/s ²	<2.5
Max Air Consumption CFM/(L/S)	7.8/(3.7)
Avg Air Consumption CFM/(L/S)	1.3/(0.6)

Standard Accessory
 271-17

Standard Accessory
 210-5-1A



SI-5500 Drill

- 3/8" capacity geared pistol grip drill
- Light duty and reasonable price model
- Ergonomic, compact and lightweight design for easy operation

Free Speed r.p.m.	2,600
Chuck Size mm/(in.)	10/(3/8)
Spindle Size	3/8-24UNF
Drilling Cap mm/(in.)	10/(3/8)
Out Put Watt	258
Max Torque Nm/(ft-lb)	3.54/(2.53)
Weight kg/(lb)	0.79/(1.75)
Noise Level dBA/(power)	85/(96)
Vibration a/k m/s ²	2.8/0.7
Max Air Consumption CFM/(L/S)	15.0/(7.1)
Avg Air Consumption CFM/(L/S)	2.5/(1.2)

Standard Accessory
 Chuck: KD-002 (3/8" Drill Chuck w/Handle KG1)
 Handle: (included)

SI-5505 Reversible Drill

- 3/8" capacity geared pistol grip drill with solid composite body
- Supplied with keyless chuck
- Solid composite body absorbs the vibration remarkably and also protects your hand in a cold environment
- Keyless chuck enable the quick change of drill bits

Free Speed r.p.m.	1,900
Chuck Size mm/(in.)	10/(3/8)
Drilling Cap mm/(in.)	10/(3/8)
Out Put Watt	158
Max Torque Nm/(ft-lb)	F 2.05/(1.51) R 1.81/(1.33)
Weight kg/(lb)	0.75/(1.65)
Noise Level dBA/(power)	80/(91)
Vibration a/k m/s ²	2.5/0.7
Max Air Consumption CFM/(L/S)	15.6/(7.4)
Avg Air Consumption CFM/(L/S)	2.6/(1.2)

Standard Accessory
 (Yukiwa)
 LX10

DRILLS / SPOT MILLS ACCESSORIES	KD-004	LX10	LM13W	KD-003A	KD-002	KK	KG1	100	210-5-1A	271-17
	Chuck / Handle	Chuck / Handle	Chuck / Handle	Chuck / Handle	Chuck / Handle	Chuck / Handle	Chuck / Handle	Collet Driver	Dead handle set	ø8mm milling Cutter
SI-2015AD	★	☆				★			★	
SI-5100A	★	☆				★			★	
SI-5200A			☆	★		★			★	
SI-5300A	★	☆				★				
SI-5305A	★	☆				★			☆	
SI-5305-8A			☆	★		★			★	
SI-5501		☆			★		★			
SI-5506		☆			★		★			
SI-5405	☆	★				☆		☆	☆	
SI-5405-6			★	☆		☆			★	
SI-5500		☆			★		★			
SI-5505	☆	★				☆				
SI-5355	★	☆				★				
SI-5800										★
SI-5850									★	★

★ : Standard ☆ : Option



SI-4740

CUTTING TOOLS

- SAWS
- SAWS & FILES
- NIBBLER
- SHEAR
- TRIMMER
- OSCILLATION CUTTER

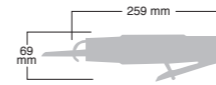


CUTTING TOOLS Saws

SI-4700B

Saw

- This air saw is the most popular tool for cutting body panel of motorcars and one of longest selling models in the automotive repair market
- A popular tool at reasonable price



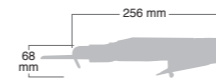
Cutting cap (Steel) mm/(in.)	3/(1/8)
Stroke length mm	10
Free Speed s.p.m. ★	10,000
Weight kg/(lb)	0.58/(1.27)
Noise Level dBA/(power)	82/(93)
Vibration a/k m/s ²	22.6/2.7
Max Air Consumption CFM/(L/S)	7.2/(3.4)
Avg Air Consumption CFM/(L/S)	1.2/(0.6)

★s.p.m. (Stroke Per Minutes)

SI-4730

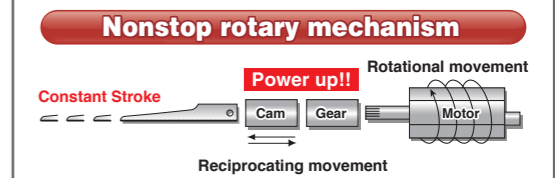
Saw

- Air saw & file with rotary motor
- SI-4700B & SI-4710 are worked by piston but this model has a rotary air motor and makes working strokes through the gears
- Smooth operation, low vibration and low noise
- Amazing non-stop cutting with extremely low use fatigue



File Shank Opening mm/(in.)	5/(3/16)
Cutting cap (Steel) mm/(in.)	5/(3/16)
Stroke length mm	9
Free Speed s.p.m. ★	6,000
Out Put W	296
Weight kg/(lb)	0.92/(2.03)
Noise Level dBA/(power)	86/(97)
Vibration a/k m/s ²	15.1/1.9
Max Air Consumption CFM/(L/S)	18.0/(8.5)
Avg Air Consumption CFM/(L/S)	3.0/(1.4)

★s.p.m. (Stroke Per Minutes)



rotary air motor



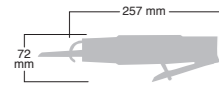
SI-4710

Saw

SI-4710F

Saw & File

- Air saw & file
- An improved model over the SI-4700B
- You can use saw blades, as well as 3 different files with this tool
- Low vibration and high power

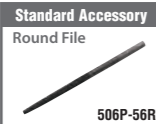


SI-4710 • SI-4710F



SI-4710F

SI-4710F: Saw Blade and 3files set



SI-4710F



SI-4710F



File Shank Opening mm/(in.)	5/(3/16)
Cutting cap (Steel) mm/(in.)	3/(1/8)
Stroke length mm	10
Free Speed s.p.m. ★	10,000
Weight kg/(lb)	0.80/(1.76)
Noise Level dBA/(power)	85/(97)
Vibration a/k m/s ²	21.0/1.5
Max Air Consumption CFM/(L/S)	6.0/(2.8)
Avg. Air Consumption CFM/(L/S)	1.0/(0.5)

★s.p.m. (Stroke Per Minutes)

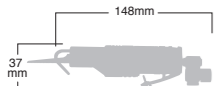
SI-4740

Saw

SI-4740F

Saw & File

- World's smallest and lightest air saw
- Easy to use in tight place
- This model mechanism is same with the SI-4730, worked by rotary air motor and makes working strokes through the gears
- Only 5mm strokes and other parts are not damaged



SI-4740 • SI-4740F



SI-4740F

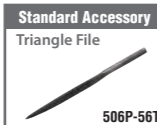
SI-4740F: Saw Blade and 3files set



SI-4740 • SI-4740F



SI-4740F



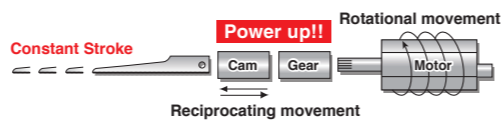
SI-4740F



File Shank Opening mm/(in.)	5/(3/16)
Cutting cap (Steel) mm/(in.)	4/(5/32)
Stroke length mm	5
Free Speed s.p.m. ★	10,500
Out Put W	135
Weight kg/(lb)	0.52/(1.15)
Noise Level dBA/(power)	83/(94)
Vibration a/k m/s ²	14.5/1.9
Max Air Consumption CFM/(L/S)	10.2/(4.8)
Avg. Air Consumption CFM/(L/S)	1.7/(0.8)

★s.p.m. (Stroke Per Minutes)

Nonstop rotary mechanism



SI-4740F

SI-4600

Nibbler



502-42

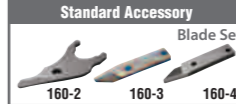
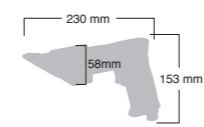


502-41

Cutting Width mm/(in.)	4.5/(3/16)	Noise Level dBA/(power)	88/(99)
Cutting cap mm/(in.)	1.6/(1/16)	Vibration a/k m/s ²	8.6/1.3
Free Speed r.p.m.	2,600	Max Air Consumption CFM/(L/S)	19.8/(9.3)
Out Put Watt	316	Avg. Air Consumption CFM/(L/S)	3.3/(1.6)
Weight kg/(lb)	1.00/(2.20)		

SI-4500

Shear



Cutting Width mm/(in.)	5.4/(7/32)	Noise Level dBA/(power)	83/(94)
Cutting cap mm/(in.)	1.6/(1/16)	Vibration a/k m/s ²	4.9/0.9
Free Speed r.p.m.	2,000	Max Air Consumption CFM/(L/S)	21.0/(9.9)
Out Put Watt	378	Avg. Air Consumption CFM/(L/S)	3.5/(1.6)
Weight kg/(lb)	1.26/(2.79)		

SI-2018A

Trimmer

SI-2018A-6

6mm Collet model



SI-2018A



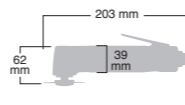
SI-2018A-6

Collet Size	ø1/4"	ø6mm
Free Speed r.p.m.	26,000	26,000
Output Watt	381	381
Weight kg/(lb)	0.91/(2.01)	0.91/(2.01)
Noise Level dBA/(power)	87/(98)	87/(98)
Vibration m/s ²	<2.5	<2.5
Max Air Consumption CFM/(L/S)	25.2/(11.9)	25.2/(11.9)
Avg. Air Consumption CFM/(L/S)	4.2/(2.0)	4.2/(2.0)

SI-4300

Oscillation Cutter

- Oscillation cutting tool specially designed to cut the body panels of motorcars
- Two different cutting blades are supplied with the tool
- Specially designed tool for car repair shop
- The depth of the cut can be adjusted














Disc Size mm	ø63
Oscillating Angle	2.8°
Free Speed o.p.m. ★	20,000
Weight kg/(lb)	0.89
Noise Level dBA/(power)	88/(99)
Vibration a/k m/s ²	4.8/0.9
Max Air Consumption CFM/(L/S)	19.2/(9.1)
Avg. Air Consumption CFM/(L/S)	3.2/(1.5)


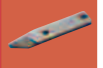












★o.p.m. (Oscillation Per Minutes)

508-45A & 508-44



CUTTING TOOLS

CUTTING TOOLS ACCESSORIES	506-49ASI	1025-49ASI	1025-50A	1026-49ASI	506P-56F	506P-56R	506P-56T	502-42	502-41	1026-50
										
 SI-4700B	★	☆	☆							
 SI-4730		★	☆		☆	☆	☆			
 SI-4710	★	☆	☆		☆	☆	☆			
 SI-4710F	★	☆	☆		★	★	★			
 SI-4740				★	☆	☆	☆			★
 SI-4740F				★	★	★	★			★
 SI-4600								★	★	

CUTTING TOOLS ACCESSORIES	160-2	160-3	160-4	508-45A	508-45B	508-44	330-24	330-19	330-25	330-26
										
 SI-4500	★	★	★							
 SI-2018A							★	☆	☆	☆
 SI-2018A-6							☆	★	☆	☆
 SI-4300				★	★	★				

★ : Standard ☆ : Option



SI-4600



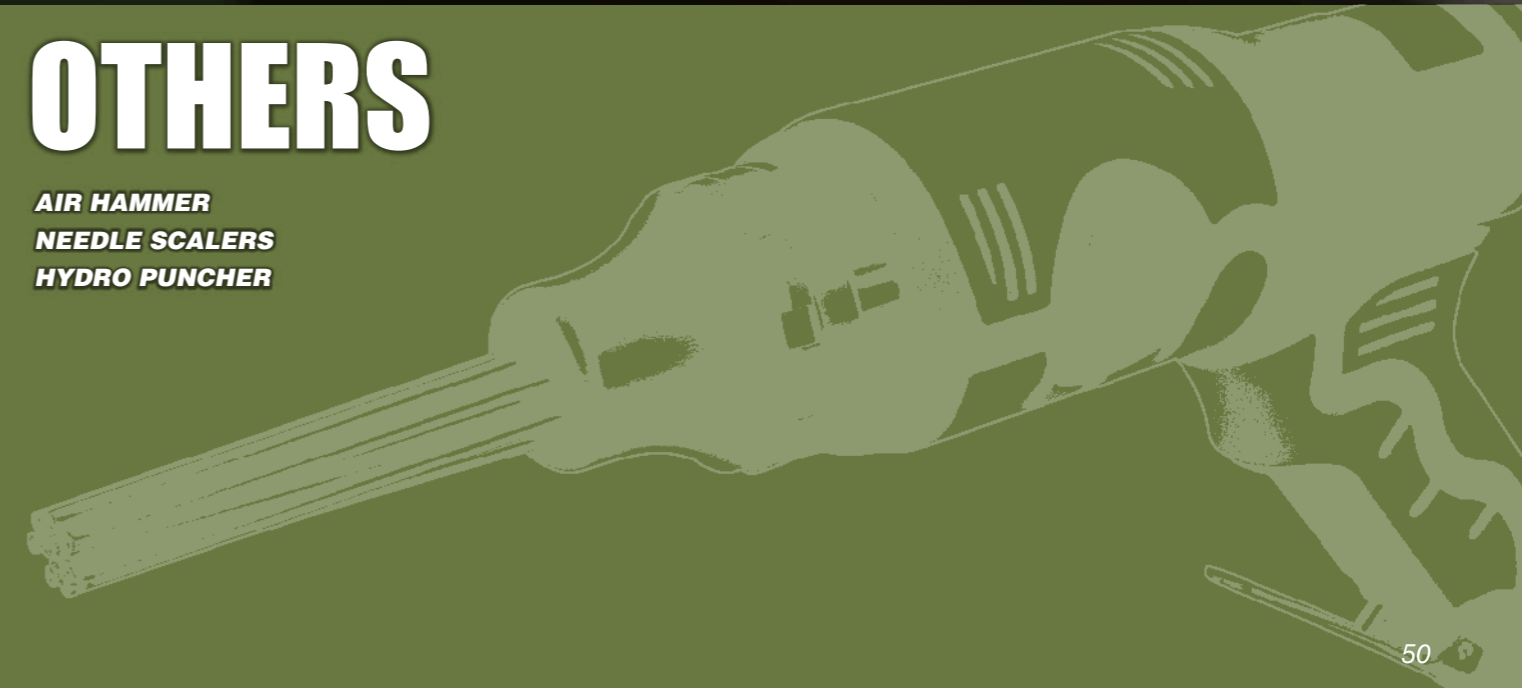
SI-4500



SI-4160

OTHERS

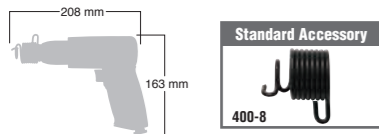
AIR HAMMER
NEEDLE SCALERS
HYDRO PUNCHER



SI-4120A

Air Hammer

- Pistol grip air hammer for 10.2mm diameter chisels (.401" shank)
- Many kinds of the chisels are available as accessories
- High speed piston power of 2,600 times per min
- Powerful piston enable the tool to cope with many kinds of work



SI-4120AH

Air Hammer Hex Shank



SI-4120A	
SI-4120AH	
Shank Size in./mm	.401/(10.2)
Stroke length mm	Max 10
Free Blow Speed s.p.m.	2,600
Weight kg/(lb)	1.60/(3.52)
Noise Level dBA/(power)	104/(116)
Vibration m/s ²	9.0
Max Air Consumption CFM/(L/S)	18.0/(8.5)
Avg Air Consumption CFM/(L/S)	3.0/(1.4)

SI-4120A-KIT

Air Hammer Kit

- Kit of SI-4120A, Chisels, retainer spring, and quick change retainer.



Shank Size in./mm	.401/(10.2)
Stroke length mm	Max 10
Free Blow Speed s.p.m.	2,600
Weight kg/(lb)	1.60/(3.52)
Noise Level dBA/(power)	104/(116)
Vibration m/s ²	9.0
Avg Air Consumption CFM/(L/S)	3.0/(1.4)

AIR HAMMER ACCESSORIES

Special Accessories .401 Shank CHISELS

All products are made in Japan.

No.801		TIE ROD TOOL	No.813		RIVET CUTTER
No.802		TAIL PIPE CUTTER	No.814		BLANK CHISEL
No.803		FORK 21/32" OPENING	No.815		SPOT WELD BREAKER
No.803J		FORK 15/16" OPENING	No.816		SHEET METAL B
No.804		BUSHING REMOVER	No.817		BUSHING DRIVER
No.805		SCRAPER	No.818		FLAT BEND
No.806		BUSHING SPLITTER	No.819		SHEET METAL PUNCH
No.807		SHEET METAL A	No.820		PANEL CLIPPER
No.808		MUFFER CUTTER	No.821		SMOOTHING HAMMER
No.809		DOUBLE EDGE PANEL CUTTER	No.822		STRAIGHT PUNCH
No.810		FLAT 7" LONG	No.823		PAINT SCRAPER
No.811		FLAT 9" LONG	No.824		SHOCK ABSORBER CHISEL
No.812		TAPER PUNCH	No.825		MOIL POINT

SI-4160

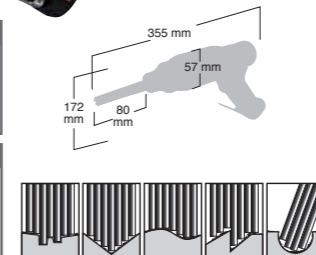
Needle Scaler

- Pistol type needle scaler is good for holding.
- Ergonomic design with rubber grip giving protects your hand from the cold.
- Excellent performance on uneven or rough surfaces.



Stroke length mm	Max 17
Free Blow Speed s.p.m.	3,300
Weight kg/(lb)	2.19/(4.83)
Noise Level dBA/(power)	95/(108)
Vibration m/s ²	14.1
Max Air Consumption CFM/(L/S)	8.4/(4.0)
Avg Air Consumption CFM/(L/S)	1.4/(0.7)

Attachment Included	Attachment Included
φ3×180mm 12Needles 820-11	φ3mm Needle Holder 820-9
OPTION	OPTION
φ2×180mm 29Needles 820-24	φ2mm Needle Holder 820-23



SI-4150EX

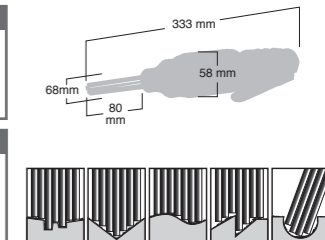
Needle Scaler

- Straight grip needle scaler for removing rust or old paint. Excellent performance on uneven or rough surfaces.
- Ergonomic grip and composite body design.
- Simple mechanism for easy maintenance and needle replacement.



Stroke length mm	Max 17
Free Blow Speed s.p.m.	3,500
Weight kg/(lb)	2.06/(4.53)
Noise Level dBA/(power)	97/(107)
Vibration m/s ²	13.0
Max Air Consumption CFM/(L/S)	7.8/(3.7)
Avg Air Consumption CFM/(L/S)	1.3/(0.6)

Attachment Included	Attachment Included
φ3×180mm 12Needles 820-11	φ3mm Needle Holder 820-9
OPTION	OPTION
φ2×180mm 29Needles 820-24	φ2mm Needle Holder 820-23



SI-4900

New

Puncher φ6.5×2

SI-4910

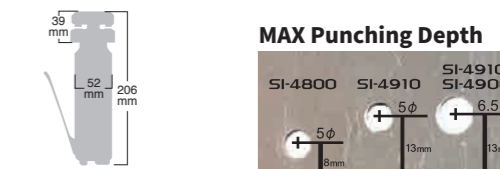
New

Puncher φ5 & φ6.5



- Punching and flanging tool is useful for panel beating work.
- Best tool for welding work of car body.
- 360° Rotational Head

SI-4900	SI-4910
Punching cap φ6.5 x 2	Punching cap φ5 & φ6.5
Cutting cap mm/(in.) 1.0/(3/64)	Cutting cap mm/(in.) 1.0/(3/64)
Weight kg/(lb) 1.00/(2.20)	Weight kg/(lb) 1.00/(2.20)
Vibration m/s ² <2.5	Vibration m/s ² <2.5
Avg Air Consumption CFM/(L/S) 1.3/(0.6)	Avg Air Consumption CFM/(L/S) 1.3/(0.6)

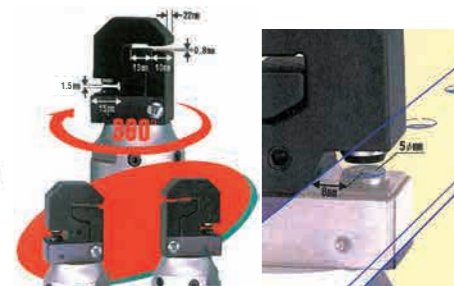


SI-4800	φ5 x 1.2mm	
SI-4900	φ6.5 x 1.0mm	
SI-4910	φ5 x 1.2mm φ6.5 x 1.0mm	

SI-4800

Hydro Puncher

- Punching and flanging tool is useful for panel beating work.
- Best tool for welding work of car body.



Punching cap	φ5 x 1.2mm
Cutting cap mm/(in.)	1.2/(3/64)
Weight kg/(lb)	1.01/(2.23)
Vibration m/s ²	<2.5
Max Air Consumption CFM/(L/S)	7.8/(3.7)
Avg Air Consumption CFM/(L/S)	1.3/(0.6)



for Bridge industry



for Shipbuilding industry



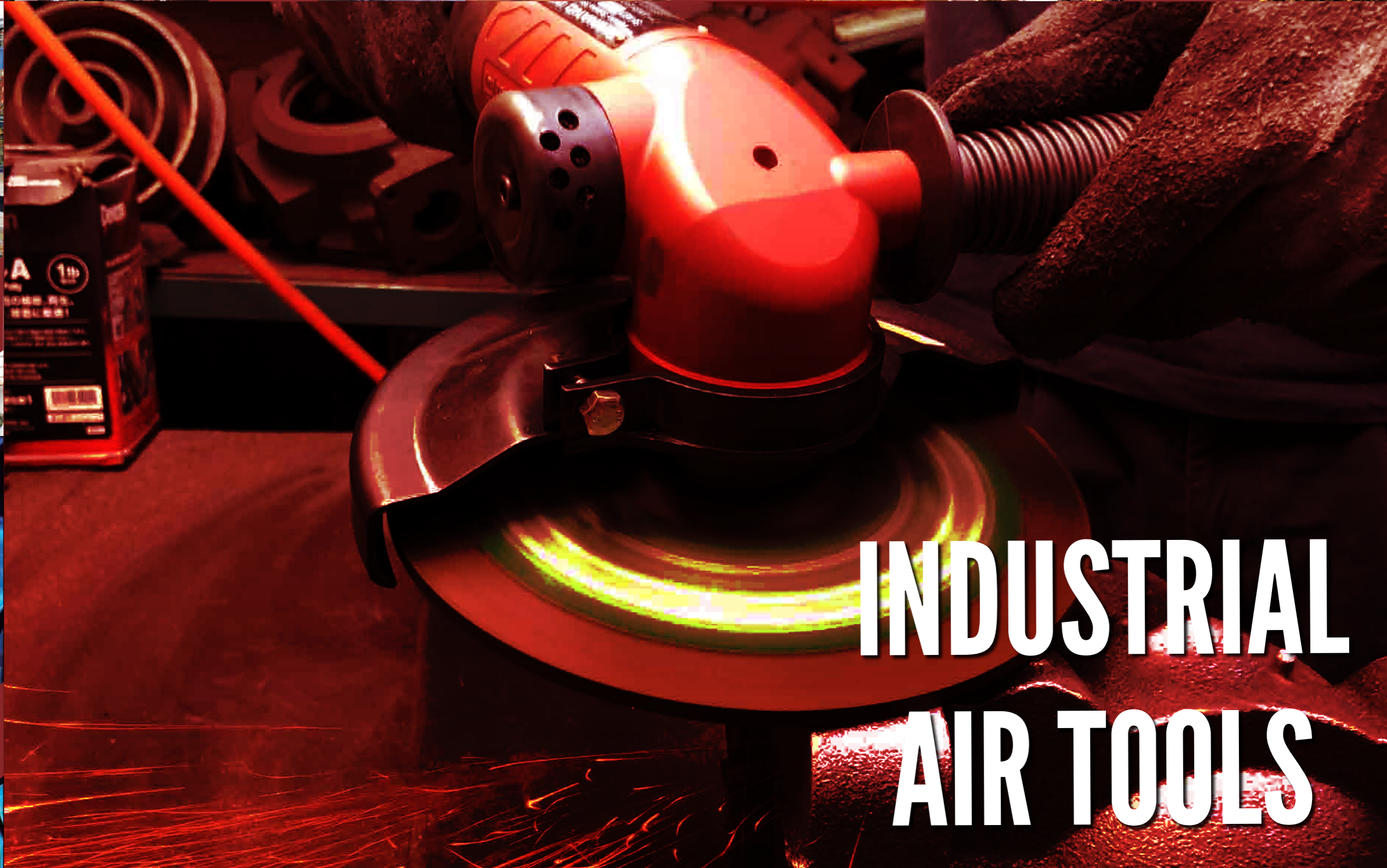
for Building industry



for Airplane industry



for Welding industry



INDUSTRIAL AIR TOOLS

DISC GRINDERS ANGLE GRINDERS P57~62

AG2



SI-NO.	Switch type	Description	Spindle size	Disc size
AG2-U2P	Palm grip-safety lever(P)	2" Angle Disc Grinder	Φ9.53-1/4"-28UNF	50X4X9.53
AG2-U2R	Rotary twist switch(R)	2" Angle Disc Grinder	Φ9.53-1/4"-28UNF	50X4X9.53

AG4



SI-NO.	Switch type	Description	Spindle size	Disc size
AG4-E2P	Palm grip-safety lever(P)	4" Angle Disc Grinder	Φ15.8-3/8-24UNF	100X6X15.8
AG4-A2P	Palm grip-safety lever(P)	4" Angle Disc Grinder	Φ15.8-M8-1.25	100X6X15.8
AG4-A2PJ	Palm grip-safety lever(P)	4" Angle Disc Grinder	Φ15-M8-1.25	100X6X15
AG4-E2R	Rotary twist switch(R)	4" Angle Disc Grinder	Φ15.8-3/8-24UNF	100X6X15.8
AG4-A2RJ	Rotary twist switch(R)	4" Angle Disc Grinder	Φ15-M8-1.25	100X6X15
AG4-A2R	Rotary twist switch(R)	4" Angle Disc Grinder	Φ15.8-M8-1.25	100X6X15.8
AG4-A2LJ	Long grip-safety lever(L)	4" Angle Disc Grinder	Φ15-M8-1.25	100X6X15
AG4-A2L	Long grip-safety lever(L)	4" Angle Disc Grinder	Φ15.8-M8-1.25	100X6X15.8
AG4-E2L	Long grip-safety lever(L)	4" Angle Disc Grinder	Φ15.8-3/8-24UNF	100X6X15.8

AG5



SI-NO.	Switch type	Description	Spindle size	Disc size
AG5-E3P	Palm grip-safety lever(P)	5" Angle Disc Grinder	Φ22.2-M14-2	125X6/22.2
AG5-E4P	Palm grip-safety lever(P)	5" Angle Disc Grinder	Φ22.2-5/8-11UNC	125X6/22.2
AG5-A3P	Palm grip-safety lever(P)	5" Angle Disc Grinder	Φ22.2-M8-1.25	125X6/22.2
AG5-A3R	Rotary twist switch(R)	5" Angle Disc Grinder	Φ22.2-M8-1.25	125X6/22.2
AG5-E3L	Long grip-safety lever(L)	5" Angle Disc Grinder	Φ22.2-M14-2	125X6/22.2
AG5-E4L	Long grip-safety lever(L)	5" Angle Disc Grinder	Φ22.2-5/8-11UNC	125X6/22.2
AG5-A3L	Long grip-safety lever(L)	5" Angle Disc Grinder	Φ22.2-M8-1.25	125X6/22.2

AG7



SI-NO.	Switch type	Description	Spindle size	Disc size
AG7-A4R	Rotary twist switch(R)	7" Angle Disc Grinder	Φ22.2-1/2-16UN	180X6X22.2
AG7-A4L	Long grip-safety lever(L)	7" Angle Disc Grinder	Φ22.2-1/2-16UN	180X6X22.2
AG7-E5L	Long grip-safety lever(L)	7" Angle Disc Grinder	Φ22.2-5/8-11UNC	180X6X22.2

STRAIGHT GRINDERS P63

SG3



SI-NO.	Switch type	Description	Spindle size	Disc size
SG3-2L	Safety lever(L)	2.5" Straight Disc Grinder	Φ9.53-W3/8-16	65 X 13 X 9.53
SG3-3L	Safety lever(L)	3" Straight Disc Grinder	Φ9.53-W3/8-16	75 X 13 X 9.53
SG3-2R	Rotary twist switch(R)	2.5" Straight Disc Grinder	Φ9.53-W3/8-16	65 X 13 X 9.53
SG3-3R	Rotary twist switch(R)	3" Straight Disc Grinder	Φ9.53-W3/8-16	75 X 13 X 9.53

DIE GRINDERS

COLLET TYPE P63

AG2



SI-NO.	Switch type	Description	Spindle size	Collet size
AG2-C2P-6	Palm grip-safety lever(P)	Angle Die Grinder	W3/8-16	6mm
AG2-C2P-Q	Palm grip-safety lever(P)	Angle Die Grinder	W3/8-16	1/4"
AG2-C2R-6	Rotary twist switch(R)	Angle Die Grinder	W3/8-16	6mm
AG2-C2R-Q	Rotary twist switch(R)	Angle Die Grinder	W3/8-16	1/4"

SG3



SI-NO.	Switch type	Description	Spindle size	Collet size
SG3-CL-6	Safety lever(L)	Straight Die Grinder	W3/8-24UNF	6mm
SG3-CL-Q	Safety lever(L)	Straight Die Grinder	W3/8-24UNF	1/4"
SG3-CR-6	Rotary twist switch(R)	Straight Die Grinder	W3/8-24UNF	6mm
SG3-CR-Q	Rotary twist switch(R)	Straight Die Grinder	W3/8-24UNF	1/4"

DUAL ACTION SANDER P64



SI-NO.	Switch type	Description	Paper size
DS6-5L	Short lever	Dual Action Sander	125 φ mm
DS6-5LM	Short lever	Dual Action Sander	125 φ mm

DIE GRINDERS P65~66

Angle Model

SI-NO.	Switch type	Description	Collet size
AG20E-6L-6	Safety lever(L)	Angle Die Grinder	6mm
AG20E-6L-Q	Safety lever(L)	Angle Die Grinder	1/4"
AG20E-6R-6	Rotary twist switch(R)	Angle Die Grinder	6mm
AG20E-6R-Q	Rotary twist switch(R)	Angle Die Grinder	1/4"

Light Model

SI-NO.	Switch type	Description	Collet size
SG20E-6L-6	Safety lever(L)	Die Grinder	6mm
SG20E-6L-Q	Safety lever(L)	Die Grinder	1/4"
SG20E-6LL-6	Safety lever(L)	5"EXT Die Grinder	6mm
SG20E-6LL-Q	Safety lever(L)	5"EXT Die Grinder	1/4"
SG20E-6R-6	Rotary twist switch(R)	Die Grinder	6mm
SG20E-6R-Q	Rotary twist switch(R)	Die Grinder	1/4"
SG20E-6RL-6	Rotary twist switch(R)	5"EXT Die Grinder	6mm
SG20E-6RL-Q	Rotary twist switch(R)	5"EXT Die Grinder	1/4"

Standard Model

SI-NO.	Switch type	Description	Collet size
SG40E-6L-6	Safety lever(L)	Die Grinder	6mm
SG40E-6L-Q	Safety lever(L)	Die Grinder	1/4"
SG40E-6LL-6	Safety lever(L)	5"EXT Die Grinder	6mm
SG40E-6LL-Q	Safety lever(L)	5"EXT Die Grinder	1/4"

Power Model

SI-NO.	Switch type	Description	Collet size
SG60E-6L-6	Safety lever(L)	Die Grinder	6mm
SG60E-6L-Q	Safety lever(L)	Die Grinder	1/4"
SG60E-6LL-6	Safety lever(L)	5"EXT Die Grinder	6mm
SG60E-6LL-Q	Safety lever(L)	5"EXT Die Grinder	1/4"

Bevelers P67~69

Light Model

SI-NO.	Switch type	Description	Carbide tip type
4012	Rotary twist switch	Beveler	R3 or C3
4012L	Safety lever(L)	Beveler	R3 or C3

High Power Model

SI-NO.	Switch type	Description	Carbide tip type
4020	Rotary twist switch	Beveler	R3 or C3
4020L	Safety lever(L)	Beveler	R3 or C3
4021	Rotary twist switch	Beveler	C2 - C7
4021L	Safety lever(L)	Beveler	C2 - C7

SHINANO INC.
concepts for the
Industrial range
products are ;

- Productivity
- Accessibility
- Ergonomics
- Durability
- Safety

Target market



Air craft Shipyard



Bridge Welding

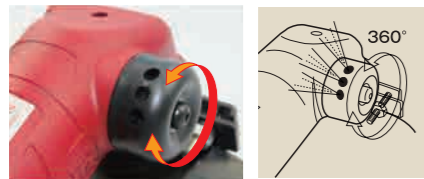


construction

The Industrial range products
have improved 150% on the
accuracy compare with our
automotive range products.

Adjustable Silencer

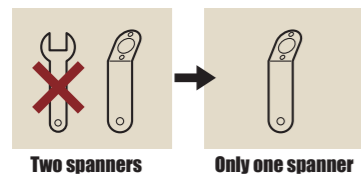
The 4", 5" & 7" Industrial Angle Grinders feature front mounted 360 degree adjustable silencers. This enables directional control of exhaust air.



Spindle Lock



The 2", 4", 5" & 7" Industrial Angle Grinders feature a Spindle lock button for quick and easy grinding disc replacement.

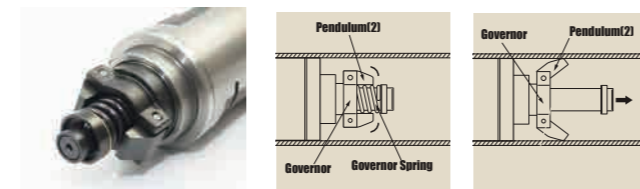


High Precision Bearings & Gears

The Shinano Industrial range has been designed with new high tolerance bearings offering low noise and vibration levels and superior performance at high speeds. Precisely ground transmission gears are made from high grade nickel-chromium molybdenum steel with a specialised hardening process. These high quality specifications allow for a more compact design while maintaining heavy duty performance.



Governed Motor



Speed governed motor delivers both higher torque levels and optimal disc RPM for optimum grinding performance.

Switch Type



Palm grip-safety lever(P)
The safety lever protects from inadvertent starting. When the lever is released, the lever will be locked automatically.

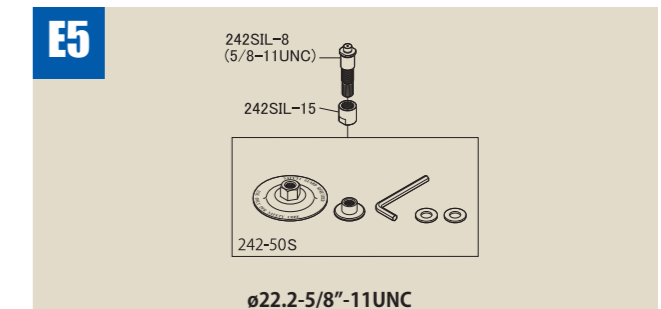
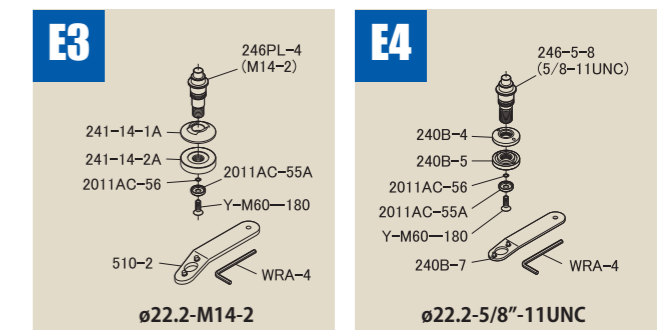
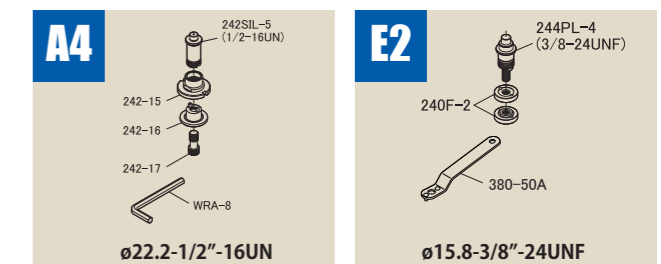
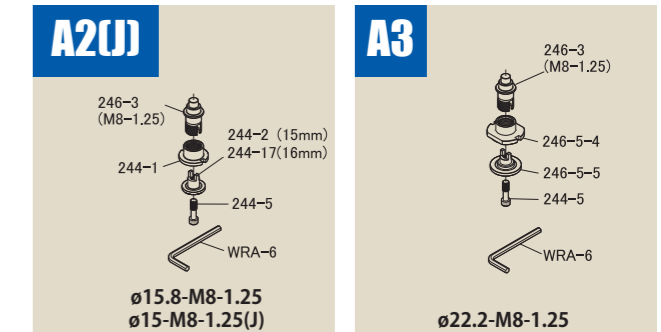
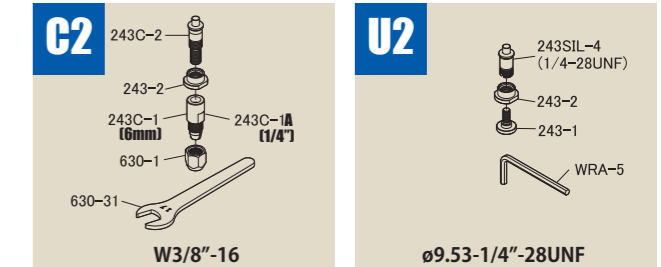


Rotary twist switch(R)
Twist Switch is suitable for Continuous operation. No switch stress to operators.



Long grip-safety lever(L)
The same safety lever system of palm grip. The distance between Wheel and handle is longer than Palm Grip type. It is more safety.

Spindle Type



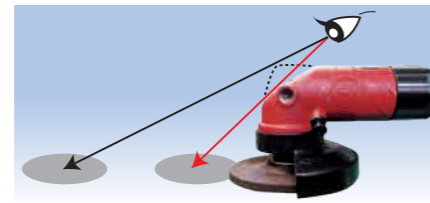
Products No.

AG type
S I - A G 4 - A 2 R
S Straight
I Grinder
A Angle
G Grinder
4 Disc size : 4 inch. = 100mm
A 2 Spindle type
A 2 Disc size : 2 inch. = 50mm
2 Disc size : 2 inch. = 50mm
4 Disc size : 4 inch. = 100mm
5 Disc size : 5 inch. = 125mm
7 Disc size : 7 inch. = 180mm
R Rotary twist switch
P Palm grip-safety lever
L Long grip-safety lever
J ø15mm (Diameter of disc hole)

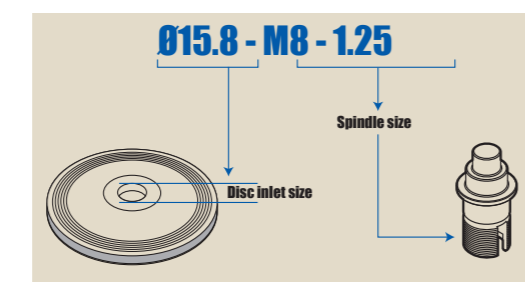
SG type
S I - S G 3 - C R
S Straight
I Grinder
A Angle
G Grinder
3 Disc size : 3 inch. = 75mm
R Rotary twist switch
L Safety lever
C Collet Die Grinder
2 Disc size : 2.5 inch. = 65mm
3 Disc size : 3 inch. = 75mm

Low Profile Gearbox

Low Profile gearbox greatly increases the operators view of the work area.



SPINDLE TYPE & SIZE



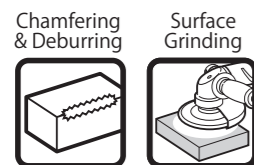
Ergonomic Handle

It is good feeling for operating with soft grip.

2" (50mm) ANGLE DISC GRINDER

SPINDLE TYPE

U2 Ø 9.53 - 1/4" - 28UNF



SI-AG2-U2P



Palm grip-safety lever

SI-AG2-U2R



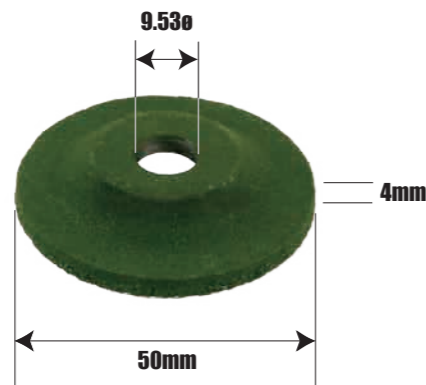
Rotary twist switch

Option Attachment
Parts No.243-30



Option Disc Pad
Parts No.129-100

Option Attachment
Parts No.243-W50
2" Grinding Disc
Disc Size : 50×4×9.53mm



Specifications

SI-No.	Free Speed (rpm)	Motor Watt (w)	Noise Level (db) Press/Power	Vibration(m/s ²)		Air Consumption		Air Inlet Size (inch)	Length (mm)	Width (mm)	Height (mm)	Weight (g)
				a	K	CFM	L/Sec					
SI-AG2-U2P	15,000	240	84/95	7.97	1.28	18.4	8.7	1/4	170	68	65	630
SI-AG2-U2R	15,000	240	84/95	7.97	1.28	18.4	8.7	1/4	170	68	65	640

Noise levels according to ISO 15744:2008,ISO 11203:2009

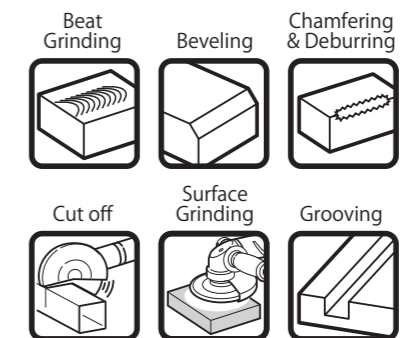
4" (100mm) ANGLE DISC GRINDER

SPINDLE TYPE

A2 Ø 15.8 - M8 - 1.25

E2 Ø 15.8 - 3/8" - 24UNF

A2(U) Ø 15 - M8 - 1.25



SI-AG4-E2P
SI-AG4-A2P
SI-AG4-A2PJ



Palm grip-safety lever

SI-AG4-A2RJ
SI-AG4-A2R
SI-AG4-E2R



Rotary twist switch

SI-AG4-A2LJ
SI-AG4-A2L
SI-AG4-E2L



Long grip-safety lever



Standard Accessorie

Parts No.240-71E
4" Grinding Disc

Disc Size : 100×6×15.8mm
※This grinding disc is not attached to "J-type".

J-type : SI-AG4-A2PJ, SI-AG4-A2RJ, SI-AG4-A2LJ
Disc Size : 100×6×15mm

Specifications

SI-No.	Free Speed (rpm)	Motor Watt (w)	Noise Level (db) Press/Power	Vibration(m/s ²)		Air Consumption		Air Inlet Size (inch)	Length (mm)	Width (mm)	Height (mm)	Weight (g)
				a	K	CFM	L/Sec					
SI-AG4-E2P	13,500	600	84/95	5.54/13.9	1.8/4.51	20.6	9.7	1/4	214	203	95	1890
SI-AG4-A2P	13,500	600	84/95	5.54/13.9	1.8/4.51	20.6	9.7	1/4	214	203	95	1880
SI-AG4-A2PJ	13,500	600	84/95	5.54/13.9	1.8/4.51	20.6	9.7	1/4	214	203	95	1880
SI-AG4-A2RJ	13,500	600	84/95	5.54/13.9	1.8/4.51	21.3	10	3/8	215	203	95	1750
SI-AG4-A2R	13,500	600	84/95	5.54/13.9	1.8/4.51	21.3	10	3/8	215	203	95	1750
SI-AG4-E2R	13,500	600	84/95	5.54/13.9	1.8/4.51	21.3	10	3/8	215	203	95	1750
SI-AG4-A2LJ	13,500	600	84/95	5.54/13.9	1.8/4.51	19.1	9	3/8	276	203	95	1890
SI-AG4-A2L	13,500	600	84/95	5.54/13.9	1.8/4.51	19.1	9	3/8	276	203	95	1890
SI-AG4-E2L	13,500	600	84/95	5.54/13.9	1.8/4.51	19.1	9	3/8	276	203	95	1900

Noise levels according to ISO 15744:2008,ISO 11203:2009 Vibration level according to ISO 28927-1

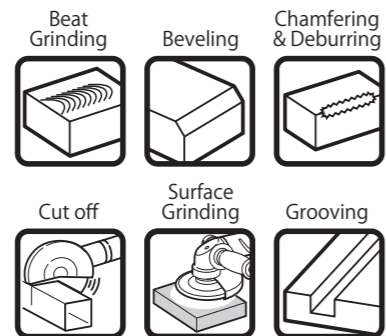
5" (125mm) ANGLE DISC GRINDER

SPINDLE TYPE

A3 Ø 22.2 - M8 - 1.25

E3 Ø 22.2 - M14 - 2

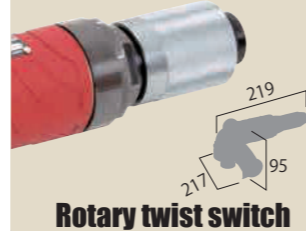
E4 Ø 22.2 - 5/8" - 11UNC



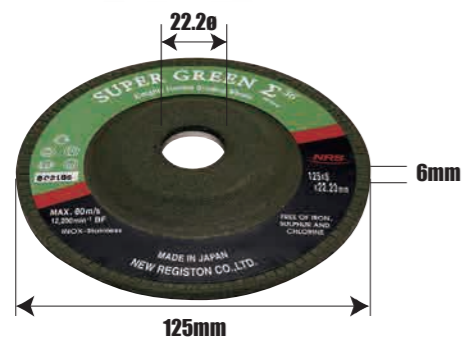
SI-AG5-E3P
SI-AG5-E4P
SI-AG5-A3P



SI-AG5-A3R



SI-AG5-E3L
SI-AG5-E4L
SI-AG5-A3L



Standard Accessorie
Parts No.241-49E
5" Grinding Disc
Disc Size : 125×6×22.2mm

Specifications

SI-No.	Free Speed (rpm)	Motor Watt (w)	Noise Level (db) Press/Power	Vibration(m/s ²)		Air Consumption		Air Inlet Size (inch)	Length (mm)	Width (mm)	Height (mm)	Weight (g)
				a Body/Grip	K Body/Grip	CFM	(L/sec)					
SI-AG5-E3P	12,000	800	85.5/96.5	7.56/18.9	2.49/6.22	25.5	12	1/4	223	217	95	2050
SI-AG5-E4P	12,000	800	85.5/96.5	7.56/18.9	2.49/6.22	25.5	12	1/4	223	217	95	2050
SI-AG5-A3P	12,000	800	85.5/96.5	7.56/18.9	2.49/6.22	25.5	12	1/4	223	217	95	2020
SI-AG5-A3R	12,000	800	85.5/96.5	7.56/18.9	2.49/6.22	30.1	14.2	3/8	219	217	95	2000
SI-AG5-E3L	12,000	800	85.5/96.5	7.56/18.9	2.49/6.22	31.2	14.7	3/8	285	217	95	2080
SI-AG5-E4L	12,000	800	85.5/96.5	7.56/18.9	2.49/6.22	31.2	14.7	3/8	285	217	95	2080
SI-AG5-A3L	12,000	800	85.5/96.5	7.56/18.9	2.49/6.22	31.2	14.7	3/8	285	217	95	2040

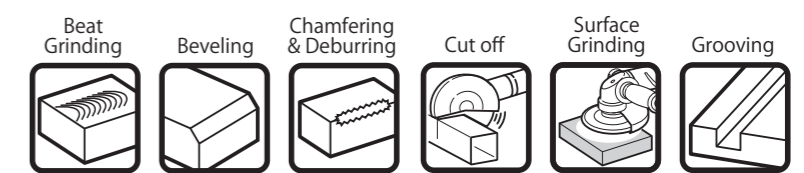
Noise levels according to ISO 15744:2008,ISO 11203:2009 Vibration level according to ISO 28927-1

7" (180mm) ANGLE DISC GRINDER

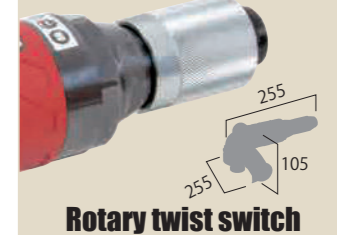
SPINDLE TYPE

A4 Ø 22.2 - 1/2" - 16UN

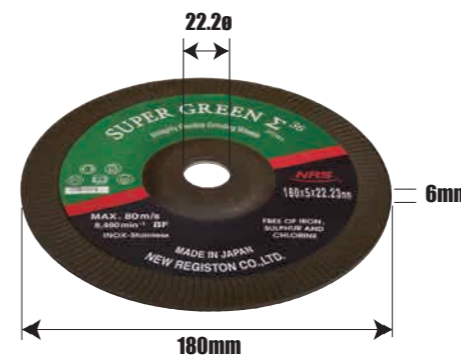
E5 Ø 22.2 - 5/8" - 11UNC



SI-AG7-A4R



SI-AG7-A4L
SI-AG7-E5L



Standard Accessorie
Parts No.280-28E
7" Grinding Disc
Disc Size : 180×6×22.2mm

Specifications

SI-No.	Free Speed (rpm)	Motor Watt (w)	Noise Level (db) Press/Power	Vibration(m/s ²)		Air Consumption		Air Inlet Size (inch)	Length (mm)	Width (mm)	Height (mm)	Weight (g)
				a Body/Grip	K Body/Grip	CFM	(L/sec)					
SI-AG7-A4R	7,600	1,000	84.5/95.5	4.32/6.65	1.39/2.14	19.5	9.2	3/8	255	255	105	2900
SI-AG7-A4L	7,600	1,000	84.5/95.5	4.32/6.65	1.39/2.14	18.1	8.5	3/8	312	255	105	2880
SI-AG7-E5L	7,600	1,000	84.5/95.5	4.32/6.65	1.39/2.14	18.1	8.5	3/8	312	260	135	3300

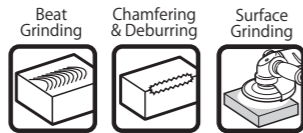
Noise levels according to ISO 15744:2008,ISO 11203:2009 Vibration level according to ISO 28927-1

STRAIGHT & COLLET TYPE

STRAIGHT TYPE DISC GRINDER

SPINDLE TYPE

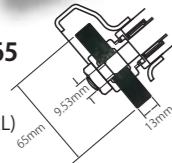
Ø 9.53 - W3/8" - 16



Option Accessorie

Parts No.630-W65

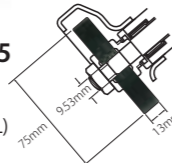
Disc Size :
65 × 13 × 9.53mm
(SI-SG3-2R & SI-SG3-2L)



Option Accessorie

Parts No.630-W75

Disc Size :
75 × 13 × 9.53mm
(SI-SG3-3R & SI-SG3-3L)



SI-SG3-2L



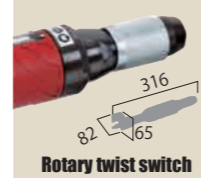
Palm grip-safety lever

SI-SG3-3L



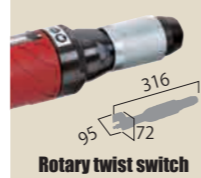
Palm grip-safety lever

SI-SG3-2R



Rotary twist switch

SI-SG3-3R



Rotary twist switch

Specifications

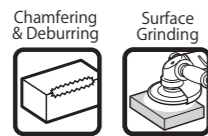
SI-No.	Free Speed (rpm)	Motor Watt (w)	Noise Level (db) Press/Power	Vibration(m/s ²)		Air Consumption		Air Inlet Size (inch)	Length (mm)	Width (mm)	Height (mm)	Weight (g)
				a	K	CFM	L/Sec					
SI-SG3-2L	14,600	520	83.5/94.5	2.86	0.78	14.2	6.7	1/4	316	82	95	1660
SI-SG3-3L	12,700	520	83.5/94.5	2.86	0.78	11.0	5.2	1/4	316	95	102	1685
SI-SG3-2R	14,600	520	83.5/94.5	2.86	0.78	16.0	7.5	3/8	316	82	65	1520
SI-SG3-3R	12,700	520	83.5/94.5	2.86	0.78	12.1	5.7	3/8	316	95	72	1545

Noise levels according to ISO 15744:2008,ISO 11203:2009 Vibration level according to ISO 28927-1

COLLET TYPE DIE GRINDER

COLLET TYPE

Ø 6mm or 1/4"



Option Attachment

Parts No.129-101(6mm)
Parts No.129-102(1/4")



Option Disc Pad
Parts No.129-100



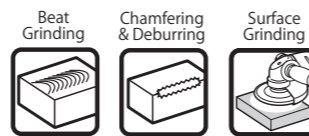
SI-AG2-C2P-6 SI-AG2-C2P-Q



Palm grip-safety lever

COLLET TYPE

Ø 6mm or 1/4"



Slimline Shaft

The mid-mounted bearing assembly and extended drive shaft design allows access to confined areas where heavy duty cutting power is needed.



SI-SG3-CL-6 SI-SG3-CL-Q



Palm grip-safety lever

SI-SG3-CR-6 SI-SG3-CR-Q



Rotary twist switch

Specifications

SI-No.	Free Speed (rpm)	Motor Watt (w)	Noise Level (db) Press/Power	Vibration(m/s ²)		Air Consumption		Air Inlet Size (inch)	Length (mm)	Width (mm)	Height (mm)	Weight (g)
				a	K	CFM	L/Sec					
SI-AG2-C2P	15,000	240	84/95	7.97	1.28	18.4	8.7	1/4	170	56	90	640
SI-AG2-C2R	15,000	240	84/95	7.97	1.28	18.4	8.7	1/4	157	56	90	650
SI-SG3-CL	14,000	520	83.5/94.5	2.86	0.78	13.1	6.2	1/4	346	48	78	1530
SI-SG3-CR	14,000	520	83.5/94.5	2.86	0.78	13.5	6.3	3/8	344	48	48	1400

Noise levels according to ISO 15744:2008,ISO 11203:2009 Vibration level according to ISO 28927:12

SI-DS6-5L / SI-DS6-5LM

5" Leather Pad

5" Velcro Pad

Features

- Large size motor generate high abrasive power and high free speed 11,200 r.p.m.
- Reduced vibration thanks to wide random shaft.
- Ergonomic grip for easy operation.
- short throttle lever makes you feel that the tool is light weight.
- Safety cover mounted for safety use.



The short throttle lever



Easy Control

Two Hand Operation & One Hand Operation

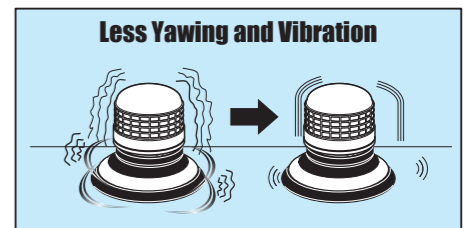
The short throttle lever close to center of gravity. Also, easy for one-hand operation.



Wide random shaft reduce the yawing and vibration.



Wide random shaft



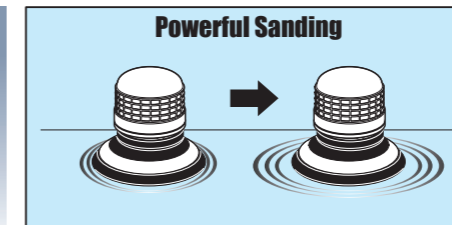
Less Yawing and Vibration

The steel balancer enhance the durability and stable balance.

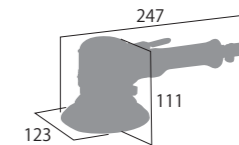


Durability

Steel Balancer



Powerful Sanding

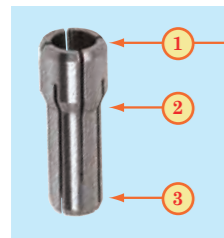


Specifications

SI-No.	Pad/Disc Size (mm/in)	Spindle Size	Orbit Dia (mm)	Free Speed (rpm)	Out Put Watt	Weight (kg)	Noise Level dBA/power	Vibration a/k m/s ²	Air Consumption	
									CFM	L/sec
SI-DS6-5L	125(5")	5/16-24UNF	6	11,200	485	1.54	88.7/(99.7)	7.16/1.36	21.2	10.0
SI-DS6-5LM	125(5")	5/16-24UNF	6	11,200	485	1.54	88.7/(99.7)	7.16/1.36	21.2	10.0

Noise levels according to ISO 15744:2008,ISO 11203:2009 Vibration level according to ISO 28927:12

High Spec Collet

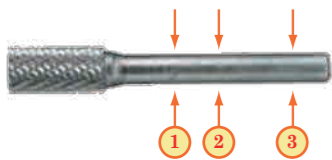


High Spec Collet
Grips at 3 locations.



Standard Collet
Grips at 1 location.

Conventional die grinder collets grip the burr in only one location leaving it susceptible to the effects of "Centre Runout" vibration. The High Spec Collet utilizes its entire length to grip the burr shank, aligning it with the centre of rotation. This reduces vibration which in turn improves control and comfort for the operator and extends the service life of the burr. This is particularly useful when using extended or oversize burrs.



Gears



High Precision Bearings & Gears
The Shinano Industrial range has been designed with new high tolerance bearings offering low noise and vibration levels and superior performance at high speeds. Precisely ground transmission gears are made from high grade nickel-chromium molybdenum steel with a specialised hardening process. These high quality specifications allow for a more compact design while maintaining heavy duty performance.

Safety Lever



The safety lever protects from inadvertent starting. When the lever is released, the lever will be locked automatically.

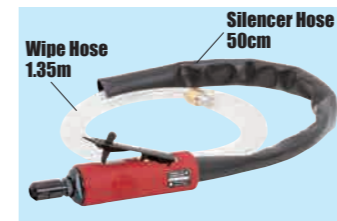
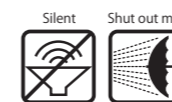
Rotary Twist Switch(R)



Rotary Twist Switch is suitable for Continuous operation. No switch stress to operators.

Silencer Hose

In addition to significantly reduced noise levels, the 50 cm silencer hose will also ensure that moisture and oil that may be present in exhaust air are directed away from the work area.



SI-AG20E-6L-6 (6mm collet) SI-AG20E-6L-Q (1/4" collet)



Free Speed..... 20,000 rpm
Motor watt..... 200 w
Weight..... 570 g
Vibration..... a=2.74 m/s²
K=0.77 m/s²

Noise (Press)..... 75.5 db
Noise (Power)..... 86.5 db
Air Consumption..... 14.5 CFM
Air Inlet Size..... 1/4"

SI-AG20E-6R-6 (6mm collet) SI-AG20E-6R-Q (1/4" collet)



Free Speed..... 20,000 rpm
Motor watt..... 160 w
Weight..... 700 g
Vibration..... a=2.74 m/s²
K=0.77 m/s²

Noise (Press)..... 75.5 db
Noise (Power)..... 86.5 db
Air Consumption..... 11.1 CFM
Air Inlet Size..... 1/4"

SI-SG20E-6L-6 (6mm collet) SI-SG20E-6L-Q (1/4" collet)



Free Speed..... 28,000 rpm
Motor watt..... 180 w
Weight..... 380 g
Vibration..... a=2.81 m/s²
K=0.77 m/s²

Noise (Press)..... 75 db
Noise (Power)..... 86 db
Air Consumption..... 14.5 CFM
Air Inlet Size..... 1/4"

SI-SG20E-6R-6 (6mm collet) SI-SG20E-6R-Q (1/4" collet)



Free Speed..... 26,000 rpm
Motor watt..... 150 w
Weight..... 510 g
Vibration..... a=2.81 m/s²
K=0.77 m/s²

Noise (Press)..... 75 db
Noise (Power)..... 86 db
Air Consumption..... 10.6 CFM
Air Inlet Size..... 1/4"

SI-SG40E-6L-6 (6mm collet) SI-SG40E-6L-Q (1/4" collet)



Free Speed..... 25,000 rpm
Motor watt..... 450 w
Weight..... 650 g
Vibration..... a=4.21 m/s²
K=0.55 m/s²

Noise (Press)..... 73.5 db
Noise (Power)..... 84.5 db
Air Consumption..... 26.6 CFM
Air Inlet Size..... 1/4"

SI-SG60E-6L-6 (6mm collet) SI-SG60E-6L-Q (1/4" collet)



Free Speed..... 25,000 rpm
Motor watt..... 650 w
Weight..... 710 g
Vibration..... a=3.93 m/s²
K=0.88 m/s²

Noise (Press)..... 81.5 db
Noise (Power)..... 92.5 db
Air Consumption..... 29.4 CFM
Air Inlet Size..... 1/4"

Rubberised Extension Tube

All LL series extended die grinders feature a rubberized section of the extension tube which provides extra grip and protection against scuffing of the work piece.

SI-SG20E-6RL-6 (6mm collet) SI-SG20E-6RL-Q (1/4" collet)



Free Speed..... 26,000 rpm
Motor watt..... 150 w
Weight..... 810 g
Air Consumption..... 10.6 CFM
Air Inlet Size..... 1/4"

(Body/Grip)
Vibration..... a=2.01/3.2 m/s²
K=0.69/0.81 m/s²
Noise (Press)..... 77.5 db
Noise (Power)..... 88.5 db

SI-SG20E-6LL-6 (6mm collet) SI-SG20E-6LL-Q (1/4" collet)



Free Speed..... 28,000 rpm
Motor watt..... 180 w
Weight..... 680 g
Air Consumption..... 14.5 CFM
Air Inlet Size..... 1/4"

(Body/Grip)
Vibration..... a=2.01/3.2 m/s²
K=0.69/0.81 m/s²
Noise (Press)..... 77.5 db
Noise (Power)..... 88.5 db

SI-SG40E-6LL-6 (6mm collet) SI-SG40E-6LL-Q (1/4" collet)



Free Speed..... 25,000 rpm
Motor watt..... 450 w
Weight..... 1,120 g
Air Consumption..... 26.6 CFM
Air Inlet Size..... 1/4"

(Body/Grip)
Vibration..... a=2.66/3.44 m/s²
K=0.76/0.93 m/s²
Noise (Press)..... 83 db
Noise (Power)..... 94 db

SI-SG60E-6LL-6 (6mm collet) SI-SG60E-6LL-Q (1/4" collet)



Free Speed..... 25,000 rpm
Motor watt..... 650 w
Weight..... 1,190 g
Air Consumption..... 29.4 CFM
Air Inlet Size..... 1/4"

(Body/Grip)
Vibration..... a=2.44/4.28 m/s²
K=0.74/0.92 m/s²
Noise (Press)..... 80.5 db
Noise (Power)..... 91.5 db

Market segments

For Shipyard



For Construction



For Bridge



IMO PSPC

The Shinano carbide tipped Bevelers is a superior edge finishing solution when compared to conventional edge grinding methods. It can quickly and easily machine consistent beveled or radiused edges that meet and exceed the IMO's PSPC regulations for surface preparation and is suitable for use on aluminium, structural grade steel and most types of stainless steel.

Features

Safety cutting method

The edge Bevelers are cutting the seat metal with hard tip. It is different method of working between the grinders, reduced sparking and rounded corners are safety since risk of injury.

High quality welding seam

The high quality of the welding seam is a particular advantage. Only one step, that is no need for refreshing and no any working. With our Bevelers can produce clean, burr-free and oxide-free finished edges.

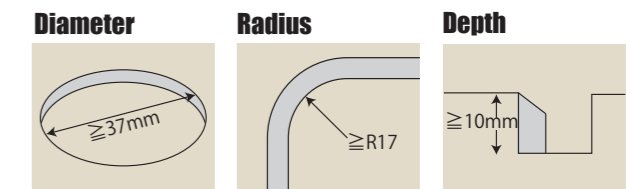
Original Carbide Tip

The router head features three cutting tips for high stock removal. Each tip gives 8 cutting edges offering a long and economical service life.

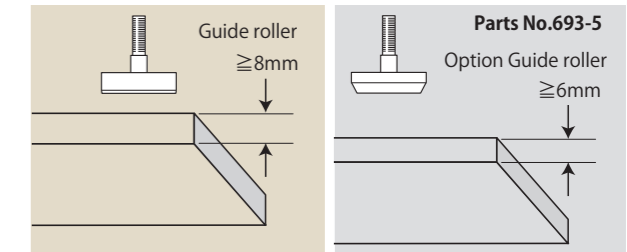
Superior Edge Finishing



Cutting range of Operation



Thickness



Tip cooling system

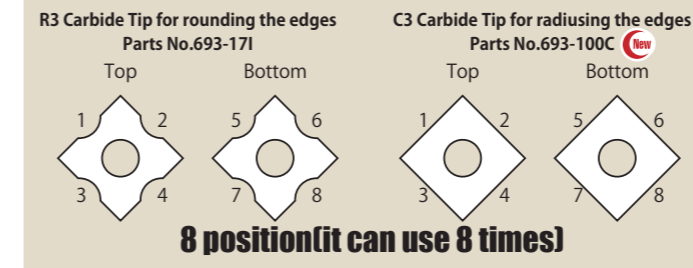
Air jets cool the tips directly, reducing the rate of temperature rise by about half and prolonging the life of the tips.



Cooling air

MODEL	Normal Temperature	Temperature at working	
		Tip	Spindle
SI-4010(previous Model)	25°C	90°C	85°C
SI-4012/SI-4012L SI-4020/SI-4020L SI-4021/SI-4021L	25°C	59°C	56°C

Air Jets blow chips away from a work to prevent them from adhering to tips



SI-4012 ^{New} Rotary twist Switch

Free Speed..... 10,000 rpm
Motor watt..... 600 w
Weight..... 3,490 g
Air Consumption.... 16.00 L/sec
Air Inlet Size..... 1/4"

Light Model



Tip Cooling system



Standard Carbide tips
Parts No.693-171



Optional Carbide tips
Parts No.693-100C



SI-4012L Safety Lever



Free Speed..... 10,000 rpm
Motor watt..... 600 w
Weight..... 3,420 g
Air Consumption.... 16.00 L/sec
Air Inlet Size..... 1/4"

SI-4020 ^{New} Rotary twist Switch

Free Speed..... 10,000 rpm
Motor watt..... 900 w
Weight..... 3,490 g
Air Consumption.... 16.00 L/sec
Air Inlet Size..... 1/4"

High Power Model



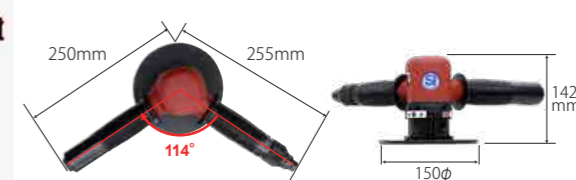
Tip Cooling system



Standard Carbide tips
Parts No.693-171



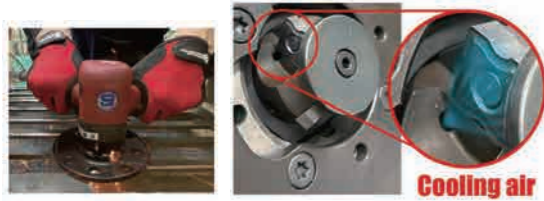
Optional Carbide tips
Parts No.693-100C



Beveler C2-C7

Tip cooling system

• Air cools the tips directly, reducing the rate of temperature rise by about half and prolonging the life of the tips.

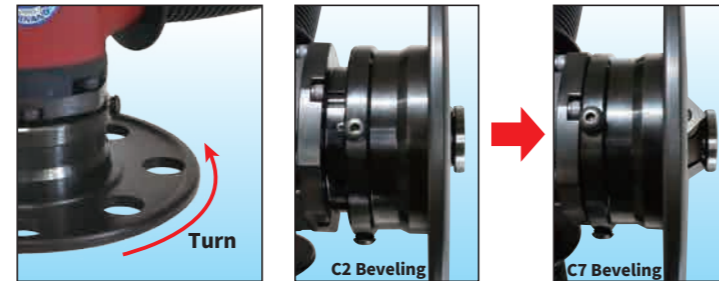


Cooling air

MODEL	Normal Temperature	Temperature at working	
		Tip	Spindle
SI-4010 (previous Model)	25°C	90°C	85°C
SI-4012/SI-4012L SI-4020/SI-4020L SI-4021/SI-4021L	25°C	59°C	56°C

Air Jets blow chips away from a work to prevent them from adhering to tips

Beveling from C2 to C7

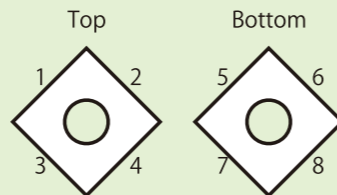


The height of the cutter holder can be adjusted from C2 to C7 by turning the base plate.

Cutting Range of Operation

Diameter	Depth	Radius	Thickness
C2 ≥ 32mm	C2 ≥ 10mm	≥ R17	C2 ≥ 8mm
C3 ≥ 34mm	C3 ≥ 11mm		C3 ≥ 9mm
C4 ≥ 36mm	C4 ≥ 12mm		C4 ≥ 10mm
C5 ≥ 38mm	C5 ≥ 13mm		C5 ≥ 11mm
C6 ≥ 40mm	C6 ≥ 14mm		C6 ≥ 12mm
C7 ≥ 42mm	C7 ≥ 15mm		C7 ≥ 13mm

Carbide Tip for radiusing the edges
Parts No.693-100C New



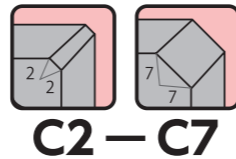
8 position(it can use 8 times)



SI-4021 New

Rotary twist Switch

High Power Model



C2 - C7

Free Speed..... 10,000 rpm
Motor watt..... 900 w
Weight..... 3,9500 g
Air Consumption.... 16.00 L/sec
Air Inlet Size..... 1/4'

Product Video



SI-4021L

Safety Lever



Free Speed..... 10,000 rpm
Motor watt..... 900 w
Weight..... 3,880 g
Air Consumption.... 16.00 L/sec
Air Inlet Size..... 1/4'

Height adjustment mechanism

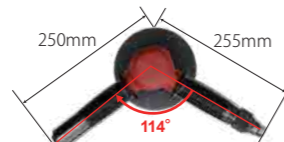
Tip Cooling system



Standard Carbide tips
Parts No.693-100C



Swivel Exhaust



ACCESSORIES

SHINANO AIR TOOL ACCESSORIES

▶ IMPACT WRENCHES

103-1 Muffler IMPACT WRENCHES	215RA-13 Muffler Filter inside (Quieter than 911P-25) IMPACT WRENCHES	911P-25 Muffler IMPACT WRENCHES	458-58 Housing Cover IMPACT WRENCHES	736-8 Muffler Retainer IMPACT WRENCHES
736DH-10 Retainer IMPACT WRENCHES	911A-15 Muffler Retainer IMPACT WRENCHES	911P-11 Retainer IMPACT WRENCHES	737-26 Housing Cover IMPACT WRENCHES	913-21 Housing Cover IMPACT WRENCHES
967-23 Housing Cover IMPACT WRENCHES				

▶ DRIVERS

181-45 Regulator DRIVERS	181-51 +Bit DRIVERS	181-51A +Bit DRIVERS	458-58 Housing Cover DRIVERS
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▶ SANDERS

10mm Sanding Belt #40/#60/#80/#100/#120 509-45Z/40 10mm Sanding belt #40 509-45Z/60 10mm Sanding belt #60 509-45Z/80 10mm Sanding belt #80 509-45Z/100 10mm Sanding belt #100 509-45Z/120 10mm Sanding belt #120 BELT SANDERS	20mm Sanding Belt #40/#60/#80/#100/#120 507-58Z/40 20mm Sanding belt #40 507-58Z/60 20mm Sanding belt #60 507-58Z/80 20mm Sanding belt #80 507-58Z/100 20mm Sanding belt #100 507-58Z/120 20mm Sanding belt #120 BELT SANDERS	30mm Sanding Belt #40/#60/#80/#100/#120 505-56Z/40 30mm Sanding belt #40 505-56Z/60 30mm Sanding belt #60 505-56Z/80 30mm Sanding belt #80 505-56Z/100 30mm Sanding belt #100 505-56Z/120 30mm Sanding belt #120 BELT SANDERS	10mm Felt Belt #60/#150/#320 509-130 10mm Felt belt #60 509-131 10mm Felt belt #150 509-132 10mm Felt belt #320 BELT SANDERS	13mm Sanding Belt #60 509LK-106 13mm Sanding belt #60 BELT SANDERS
181-45 Regulator BELT SANDERS	1026-51AS Swivel Regulator Male 1/4" Female 1/4" BELT SANDERS	P-125H 5" Leather Pad 5/16-24UNF SANDERS	M-125H 5" Velcro Pad 5/16-24UNF SANDERS	P-125HD 5" Leather Pad with 6holes 5/16-24UNF SANDERS

▶ SANDERS

M-125HD 5" Velcro Pad with 6holes 5/16-24UNF SANDERS	P-150H 6" Leather Pad 5/16-24UNF SANDERS	M-150H 6" Velcro Pad 5/16-24UNF SANDERS	P-150HD 6 6" Leather Pad with 6holes 5/16-24UNF SANDERS	M-150HD 6 6" Velcro Pad with 6holes 5/16-24UNF SANDERS
M-150HDMH 6" Velcro Pad with Mult holes 5/16-24UNF SANDERS	1041CV-5 6" Velcro Pad Face cover SANDERS	NP-150-120 6" Net Paper#120 SANDERS	NP-150-240 6" Net Paper#240 SANDERS	486-3 6" Leather Pad 5/16-24UNF SANDERS
1140-14M 5" Velcro Pad SANDERS	1140-59M 6" Velcro Pad SANDERS	P-3003 Leather Pad incl. Plate(490-58B)No hole SANDERS	M-3003 Velcro Pad incl. Plate(490-58B)No hole SANDERS	P-3007 Leather Pad incl. Plate(477-44) SANDERS
M-3007 Velcro Pad incl. Plate(477-44) SANDERS	P-3013D Leather Pad incl. Plate(490-58B)with hole SANDERS	M-3013D Velcro Pad incl. Plate(490-58B)with hole SANDERS	475-22 Leather Pad SANDERS	477A-5EL Leather Pad incl 100x180 SANDERS
477A-5EM Velcro Pad incl 100x180 SANDERS	1040-54 ø19mm Dust Hose SANDERS	570-42A ø25mm Dust Hose SANDERS	485-42 Dust Pack SANDERS	

IMPACT WRENCHES
DRIVERS
RATCHET WRENCHES
SANDERS
POLISHERS
GRINDERS
DRILLS
SPOTMILLS
CUTTING TOOLS
OTHERS
INDUSTRIAL TOOLS
ACCESSORIES
SOUND & VIBRATION
MAINTENANCE CHECK
QUALITY

SHINANO AIR TOOL ACCESSORIES

SANDERS

136-45 5" Back Disc 	820-52 7" Back Disc 	170C-27 3" DiscPad 	170C-30 4" DiscPad 	129-100 2" Disc Pad
118-3 Triangle Sanding Pad 	240-50 Side Handle 	1110A-80E ø80mm Velcro Pad(M14 P=2) 	M-75H 3" Velcro Pad 5/16-24UNF 	M-75HD 3" Velcro Pad with 3holes 5/16-24UNF
MESP-65 ø65mm Sanding Disc 	262-21MS ø50mm Velcro Pad M6 	114DA-12 ø75mm Velcro Pad M6 	SHP-50M-80 ø30mm Sanding Paper 	M-20x60/B ø60mm Sponge Buff
M-60 ø60mm Wool Buff 	119-101 ø80mm Sponge Buff 	119-102 ø80mm Wool Buff 	115MB-6S ø30mm SoftPad 	115MB-6H ø30mm HardPad
TZ-3000 ø30mm Sanding Paper # 3000 				

POLISHERS

M-150H 6" Velcro Pad 5/16-24UNF 	114DA-12 ø3" Velcro Pad Thread 6mm 	400E-102 Sponge Buff 	M-150 Wool Buff 	M-75H 3" Velcro Pad 5/16-24UNF
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POLISHERS

119-101 ø80mm Sponge Buff 	119-102 ø80mm Wool Buff 	NVP75-120 ø75mm Sanding Paper #120 	1145-101 ø165mm Wool Buff 	1145-102 ø165mm Sponge Buff
1145-5 ø138mm Velcro Pad 	820-52 7" BackDisc 	PW-3100 6" Velcro Pad 5/16-24UNF 		

GRINDERS

330-24 1/4" Collet 	330-19 6mm Collet 	330-25 1/8" Collet 	330-26 3mm Collet 	175-29 3" Cut Disc
240-6 4" Disc 15mm Hole 	240-71 4" Disc 16mm Hole 	240C-1 Disc Nut for 16mm Hole 	380-44 Disc Nut for 15mm Hole 	241-49E 5" Disc
280-28 7" Disc 	340-57 30mm Grindstone 	340-2A 3mm Collet 	340-2B 1/8" Collet 	340-55 ø5mm Grindstone(3mm)
241RW-24 Disc Receiver for SI-2515WE 	241RW-25 Disc Nut for SI-2515WE 			

IMPACT
WRENCHES
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SHINANO AIR TOOL ACCESSORIES

▶ DRILLS / SPOT MILLS

KD-004 3/8" Drill Chuck  Chuck / Handle DRILLS / SPOT MILLS	LX10 3/8" Keyless Chuck(Yukiwa)  DRILLS / SPOT MILLS	LM13W 1/2" Keyless Chuck(Yukiwa)  DRILLS / SPOT MILLS	KD-003A 1/2" Drill Chuck  Chuck / Handle DRILLS / SPOT MILLS	KD-002 3/8" Drill Chuck  Chuck / Handle DRILLS / SPOT MILLS
KK Chuck Handle for KD-004, & KD-003A  DRILLS / SPOT MILLS	KG1 Chuck Handle for KD-002  DRILLS / SPOT MILLS	100 Collet Driver  DRILLS / SPOT MILLS	210-5-1A Dead handle set  DRILLS / SPOT MILLS	271-17 ø8mm milling Cutter  DRILLS / SPOT MILLS

▶ CUTTING TOOLS

506-49ASI Saw blade 32T  CUTTING TOOLS	1025-49ASI Saw blade 32T  CUTTING TOOLS	1025-50A Saw blade 24T  CUTTING TOOLS	1026-49ASI Saw blade 32T  CUTTING TOOLS	506P-56F Flat File  CUTTING TOOLS
506P-56R Round File  CUTTING TOOLS	506P-56T Triangle File  CUTTING TOOLS	1026-50 Swivel Regulator Male 1/8" Female 1/4"  CUTTING TOOLS	508-45A Cutting Wheel  CUTTING TOOLS	508-45B Cutting Blade  CUTTING TOOLS
508-44 Adjuster  CUTTING TOOLS	502-42 Punch  CUTTING TOOLS	502-41 Die  CUTTING TOOLS	160-2 Center Blade  CUTTING TOOLS	160-3 Right Blade  CUTTING TOOLS
160-4 Left Blade  CUTTING TOOLS	330-24 1/4" Collet  CUTTING TOOLS	330-19 6mm Collet  CUTTING TOOLS	330-25 1/8" Collet  CUTTING TOOLS	330-26 3mm Collet  CUTTING TOOLS

▶ OTHERS

801 TIE ROD TOOL .401" Shank CHISELS  Air Hammer	802 TAIL PIPE CUTTER .401" Shank CHISELS  Air Hammer	803 FORK 21/32" OPENING .401" Shank CHISELS  Air Hammer	803J FORK 15/16" OPENING .401" Shank CHISELS  Air Hammer	804 BUSHING REMOVER .401" Shank CHISELS  Air Hammer
805 SCRAPER .401" Shank CHISELS  Air Hammer	806 BUSHING SPLITTER .401" Shank CHISELS  Air Hammer	807 SHEET METAL A .401" Shank CHISELS  Air Hammer	808 MUFFER CUTTER .401" Shank CHISELS  Air Hammer	809 DOUBLE EDGE PANEL CUTTER .401" Shank CHISELS  Air Hammer
810 FLAT 7" LONG .401" Shank CHISELS  Air Hammer	811 FLAT 9" LONG .401" Shank CHISELS  Air Hammer	812 TAPER PUNCH .401" Shank CHISELS  Air Hammer	813 RIVET CUTTER .401" Shank CHISELS  Air Hammer	814 BLANK CHISEL .401" Shank CHISELS  Air Hammer
815 SPOT WELD BREAKER .401" Shank CHISELS  Air Hammer	816 SHEET METAL B .401" Shank CHISELS  Air Hammer	817 BUSHING DRIVER .401" Shank CHISELS  Air Hammer	818 FLAT BEND .401" Shank CHISELS  Air Hammer	819 SHEET METAL PUNCH .401" Shank CHISELS  Air Hammer
821 SMOOTHING HAMMER .401" Shank CHISELS  Air Hammer	822 STRAIGHT PUNCH .401" Shank CHISELS  Air Hammer	823 PAINT SCRAPER .401" Shank CHISELS  Air Hammer	824 SHOCK ABSORBER CHISEL .401" Shank CHISELS  Air Hammer	825 MOIL POINT .401" Shank CHISELS  Air Hammer
402-100 Quick Change  Retainge	820-11 Needles Needle ø3 x 180mm 12Needles / Products  Needle Scaler	820-24 Needles Needle ø2 x 180mm 29Needles / Products  Needle Scaler	820-23 Needle Holder ø2mm Needle Holder  Needle Scaler	820-9 Needle Holder ø3mm Needle Holder  Needle Scaler

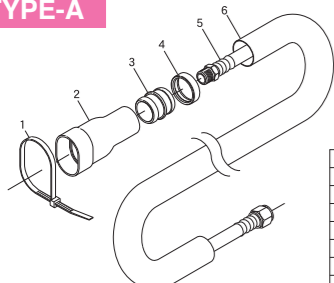
IMPACT WRENCHES
 DRIVERS
 RATCHET WRENCHES
 SANDERS
 POLISHERS
 GRINDERS
 SPOTMILLS
 CUTTING TOOLS
 OTHERS
 INDUSTRIAL TOOLS
 ACCESSORIES
 SOUND & VIBRATION
 MAINTENANCE CHECK
 QUALITY

INDUSTRIAL TOOLS

243-30 Disc Pad Attachment  Disc Grinder	129-100 2" Disc Pad  Disc Grinder	243-W50 2" Grinding Disc  Disc Grinder	240-71E 4" Grinding Disc  Disc Grinder	241-49E 5" Grinding Disc  Disc Grinder
280-28E 7" Grinding Disc  Disc Grinder	630-W65 2.5" Grinding Disc  Straight Disc Grinder	630-W75 3" Grinding Disc  Straight Disc Grinder	129-101/129-102 6mm Disc Pad Attachment / 1/4" Disc Pad Attachment  Disc & Die Grinder	114SE-3/114SE-3A 6mm Collet / 1/4" Collet  Die Grinder
892SE-2 / 892SE-2A 6mm Collet / 1/4" Collet  Die Grinder	693-17GS R3 Carbide Tip  Beveler	693-17I R3 Carbide Tip  Beveler	693-5EC8 Guide Roller ≥ 6mm  Edge Cutter	693-5E Guide Roller ≥ 8mm  Edge Cutter
693-100C C3 Carbide Tip  Edge Cutter				

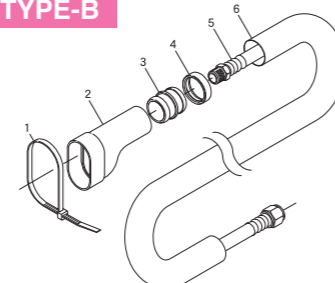
Exhaust Hose

TYPE-A



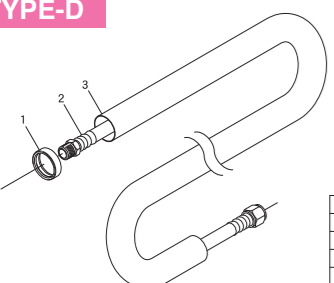
Ref. No.	Parts No.	Description	Q'ty
1	106-10	Harness Band	1
2	106-5	Exhaust Cover A	1
3	106-6	Connector	1
4	106-1	Urethane Band	1
5	106-3	Wipe Hose	1
6	106-2	Exhaust Hose	1
NO.1~6	106-A	Wipe Hose A Assy	1

TYPE-B



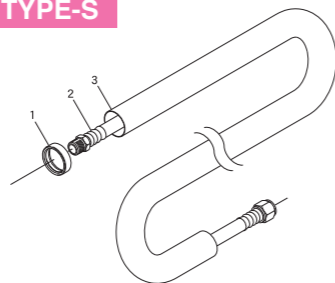
Ref. No.	Parts No.	Description	Q'ty
1	106-10	Harness Band	1
2	106-7	Exhaust Cover B	1
3	106-6	Connector	1
4	106-1	Urethane Band	1
5	106-3	Wipe Hose	1
6	106-2	Exhaust Hose	1
NO.1~6	106-B	Wipe Hose B Assy	1

TYPE-D



Ref. No.	Parts No.	Description	Q'ty
1	106-8	Urethane Band S	1
2	106-3	Wipe Hose	1
3	106-2	Exhaust Hose S	1
NO.1~3	106-D	Wipe Hose D Assy	1

TYPE-S



Ref. No.	Parts No.	Description	Q'ty
1	106-8	Urethane Band S	1
2	106-3	Wipe Hose	1
3	106-9	Exhaust Hose S	1
NO.1~3	106-S	Wipe Hose S Assy	1

ANGLE DISC GRINDERS

SI-No.	Noise Level (dBA)		Vibration Level (m/s ²)	
	ISO15744		Body/Grip	
	Pressure	Power	a	K
SI-AG2-U2P	84	95	7.97	1.28
SI-AG2-U2R	84	95	7.97	1.28
SI-AG4-E2P	84	95	5.54/13.9	1.8/4.51
SI-AG4-A2P	84	95	5.54/13.9	1.8/4.51
SI-AG4-A2PJ	84	95	5.54/13.9	1.8/4.51
SI-AG4-A2RJ	84	95	5.54/13.9	1.8/4.51
SI-AG4-A2R	84	95	5.54/13.9	1.8/4.51
SI-AG4-A2LJ	84	95	5.54/13.9	1.8/4.51
SI-AG4-A2L	84	95	5.54/13.9	1.8/4.51
SI-AG4-E2L	84	95	5.54/13.9	1.8/4.51
SI-AG5-E3P	85.5	96.5	7.56/18.9	2.49/6.22
SI-AG5-E4P	85.5	96.5	7.56/18.9	2.49/6.22
SI-AG5-A3P	85.5	96.5	7.56/18.9	2.49/6.22
SI-AG5-A3R	85.5	96.5	7.56/18.9	2.49/6.22
SI-AG5-E3L	85.5	96.5	7.56/18.9	2.49/6.22
SI-AG5-E4L	85.5	96.5	7.56/18.9	2.49/6.22
SI-AG5-A3L	85.5	96.5	7.56/18.9	2.49/6.22
SI-AG7-A4R	84.5	95.5	4.32/6.65	1.39/2.14
SI-AG7-A4L	84.5	95.5	4.32/6.65	1.39/2.14
SI-AG7-E5L	84.5	95.5	4.32/6.65	1.39/2.14

SANDER

SI-No.	Noise Level (dBA)		Vibration Level (m/s ²)	
	ISO15744		Body/Grip	
	Pressure	Power	a	K
SI-DS6-5L	88.7	99.7	7.16	1.36
SI-DS6-5LM	88.7	99.7	7.16	1.36

STRAIGHT DISC GRINDERS

SI-No.	Noise Level (dBA)		Vibration Level (m/s ²)	
	ISO15744		Body/Grip	
	Pressure	Power	a	K
SI-SG3-2L	83.5	94.5	2.86	0.78
SI-SG3-3L	83.5	94.5	2.86	0.78
SI-SG3-2R	83.5	94.5	2.86	0.78
SI-SG3-3R	83.5	94.5	2.86	0.78
SI-SG3-CL	83.5	94.5	2.86	0.78
SI-SG3-CR	83.5	94.5	2.86	0.78

DIE GRINDERS

SI-No.	Noise Level (dBA)		Vibration Level (m/s ²)	
	ISO15744		Body/Grip	
	Pressure	Power	a	K
SI-AG2-C2P	84	95	7.97	1.28
SI-AG2-C2R	84	95	7.97	1.28
SI-AG20E-6L	75.5	86.5	2.74	0.77
SI-AG20E-6R	75.5	86.5	2.74	0.77
SI-SG20E-6L	75.5	86	2.81	0.77
SI-SG20E-6LL	77.5	88.5	2.01/3.2	0.77
SI-SG20E-6R	75	86	2.81	0.77
SI-SG20E-6RL	77.5	88.5	2.01/3.2	0.69/0.81
SI-SG40E-6L	73.5	84.5	4.21	0.55
SI-SG40E-6LL	83	94	2.01/3.2	0.69/0.81
SI-SG60E-6L	81.5	92.5	3.93	0.88
SI-SG60E-6LL	80.5	91.5	2.01/3.2	0.69/0.81



IMPACT WRENCHES
DRIVERS
RATCHET WRENCHES
SANDERS
POLISHERS
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SPOTMILLS
CUTTING TOOLS
OTHERS
INDUSTRIAL TOOLS
ACCESSORIES
SOUND & VIBRATION
MAINTENANCE CHECK
QUALITY

OPERATING ENVIRONMENT

In order to have a tool operate safely and with satisfactory performance, please read the following information thoroughly before considering which SI tool is right for your application.

WORK STATIONS

The tools in this catalogue are intended to be used as a hand-held tool only. It is always recommended that the operator uses the tool in a standing position on a solid floor. These tools can be used in other positions, but before any such use, the operator must ensure they are in a secure position holding the tool firmly and following extra safety precautions that may be required by your workplace.

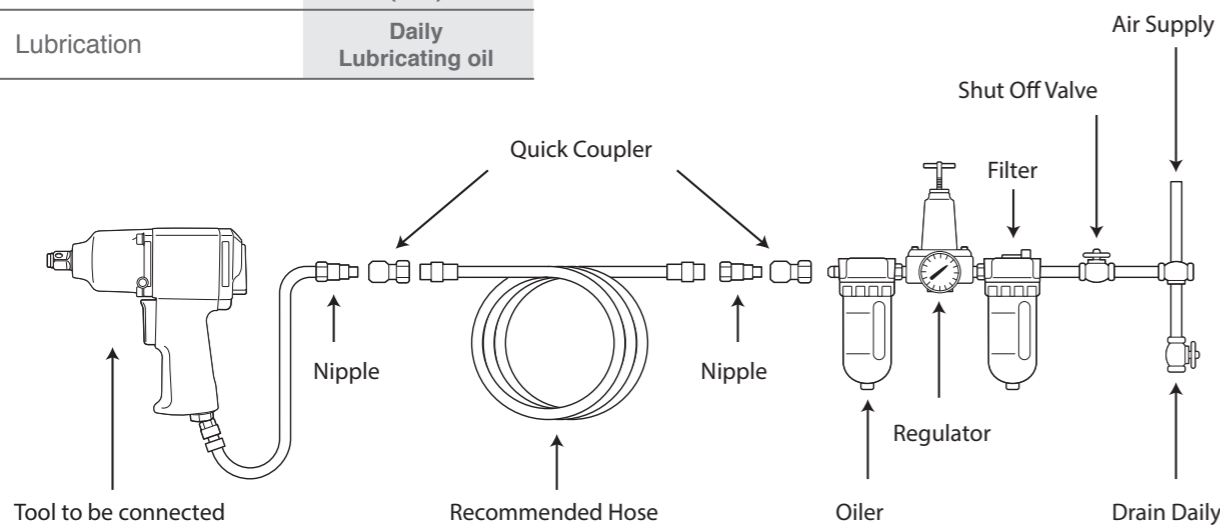
AIR SUPPLY SYSTEM

To ensure that SI pneumatic tools perform as expected it is necessary to ensure the air supply to the tool is setup correctly. Compressed air must be supplied to the tool at a pressure of 90 PSI (0.63 mpa) when the tool is running with the trigger fully depressed.

Shinano Inc. recommends air regulators, filters, lubricator and water traps be installed in the air supply system. Hose diameter and length can effect the performance of some high capacity pneumatic tools. It is important that the correct hoses and fittings be used. Oetails of such equipment can be obtained from your pneumatic tool supplier.

It is recommended that the pneumatic tools are connected to an air supply system with a configuration as shown in the diagram below. DO NOT connect a pneumatic tool to the airline system without incorporating an easy to reach and operate air shut off valve. Ensure the air supply system can support the tool(s) that will be connected to it. An air filter, regulator and lubricator units should be installed to the air supply system that powers your pneumatic tools.

DESCRIPTION	
Pressure at the working	0.63MPa (90PSI 6.3bar)
Max Hose Length	10m (30ft)
Lubrication	Daily Lubricating oil



PLANNING AND DEVELOPMENT

Our product development team analyse industry data for the planning of new tools.



DESIGN

Our designs are drawn from over 50 years experience in pneumatic tool design and production, extensive industry research, sound engineering & ergonomic principles and employing modern production techniques.

In our design process, we carefully study the properties and function of each part. We examine the manufacturing parameters of an assembled component, then test for strength and performance.

Shinano Inc. collects data by conducting test experiments in the fields of operator safety, health and workplace productivity. Our designers always aim for perfection in their designs which will in-turn build on the strengths of the SI product range.



PRODUCTION

We believe that precision robotics, combined with the management systems of the human mind produce high quality products at a reasonable price. Our production lines incorporate fully automatic robotics, to accurately, rapidly and efficiently manufacture our products.



CERTIFYING OUR STANDARDS OF QUALITY

Component inspection is carefully carried out at a number of production stages. Inspectors ensure that the production meets the required quality and durability standards. Constant vigilance and daily production inspections ensure the high quality of Shinano Inc. air tools.

