



for Bridge industry



for Shipbuilding industry



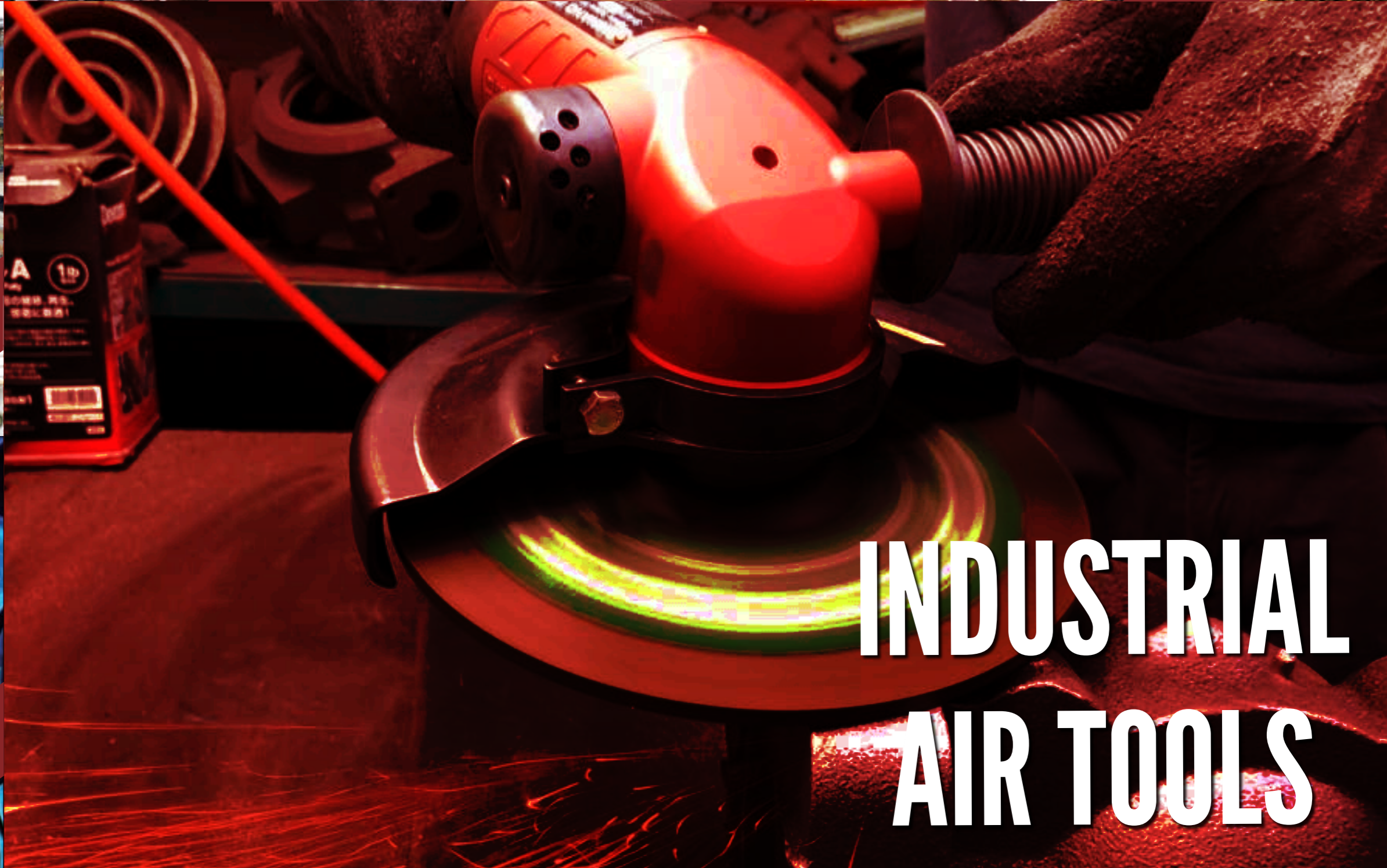
for Building industry



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 P67~70



Light Model

SI-NO.	Switch type	Description	Carbide tip type
4000	Safety Lever	Mini Beveler	C0.1-C2
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

BEAD CUTTER P71

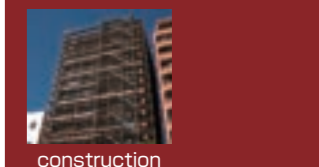
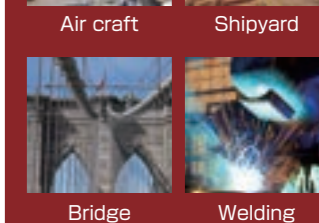


SI-NO.	Switch type	Description	Bead cutting capacity
4080	Rotary twist switch	Bead Cutter	10mm
4080L	Safety Lever(L)	Bead Cutter	10mm

SHINANO INC.
concepts for the
Industrial range
products are ;

- Productivity
- Accessibility
- Ergonomics
- Durability
- Safety

Target market

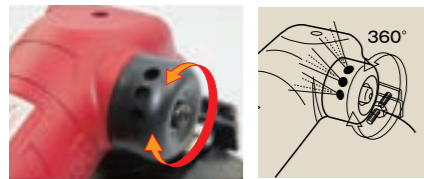


The Industrial range products
have improved 150% on the
accuracy compare with our
automotive range products.

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

Adjustable Silencer

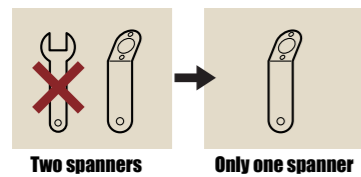
The 4", 5" & 7" Industrial Angle Grinders feature front mounted 360 degree adjustable silencers. This enables directional control of exhaust air.



Spindle Lock



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

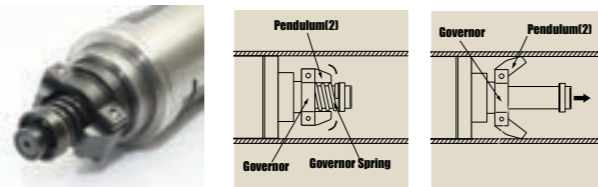


High Precision Bearings & Gears

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)

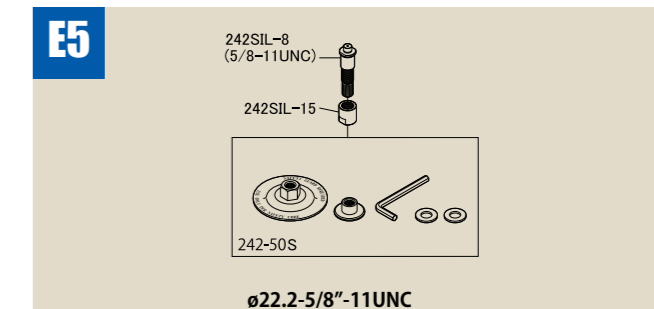
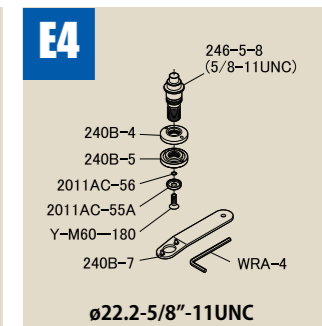
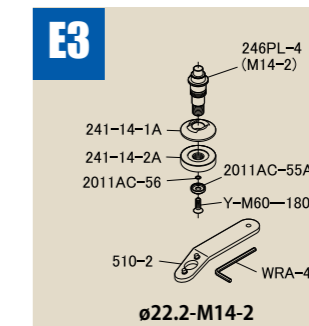
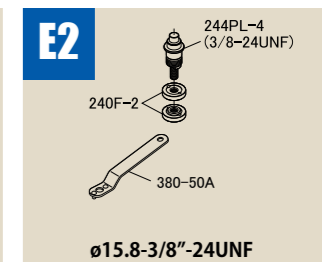
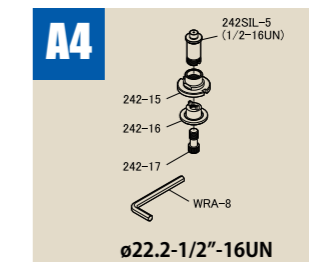
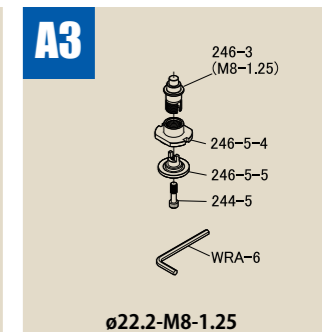
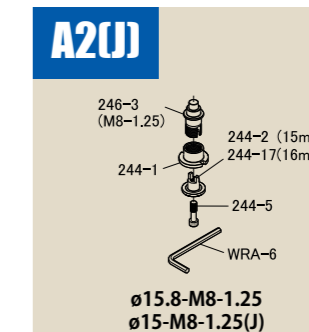
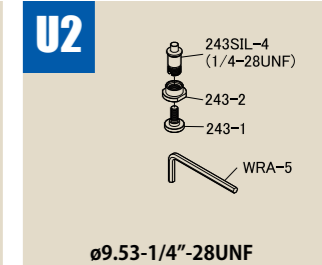
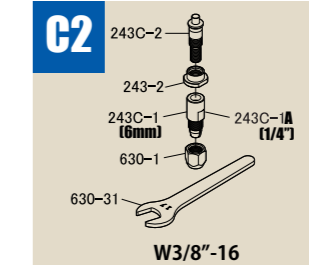
Twist Switch is suitable for Continuous operation. No switch stress to operators.



Long grip-safety lever(L)

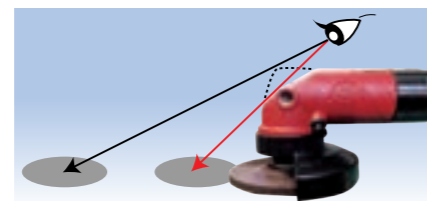
The same safety lever system of palm grip. The distance between Wheel and handle is longer than Palm Grip type. It is more safety.

Spindle Type

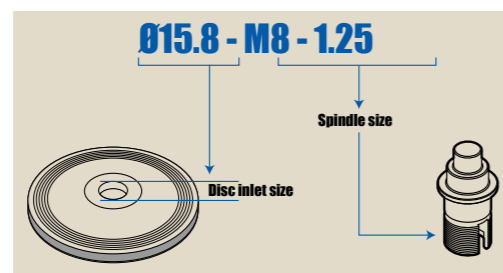


Low Profile Gearbox

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.

Products No.

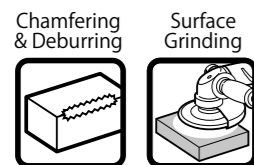
AG type	
S	Grinder
I	Angle
A	Grinder
G	Grinder
4	Disc size : 4 inch. = 100mm
2	Disc size : 2 inch. = 50mm
A2	Spindle type
R	Rotary twist switch
P	Palm grip-safety lever
L	Long grip-safety lever
J	ø15mm (Diameter of disc hole)

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

2" (50mm) ANGLE DISC GRINDER

SPINDLE TYPE

U2 Ø 9.53 - 1/4" - 28UNF



SI-AG2-U2P



Palm grip-safety lever

SI-AG2-U2R



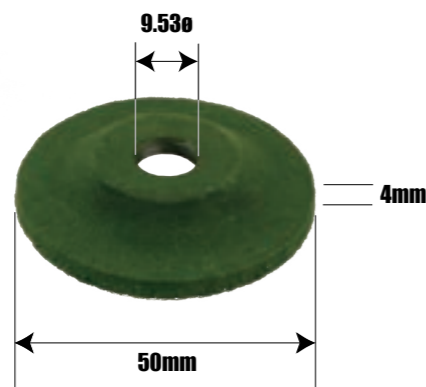
Rotary twist switch

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

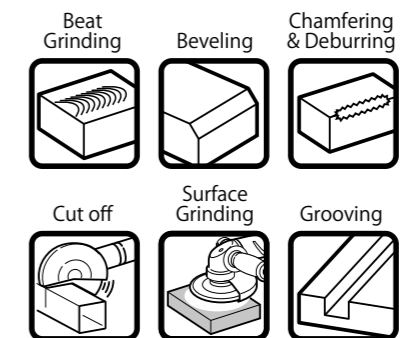
4" (100mm) ANGLE DISC GRINDER

SPINDLE TYPE

A2 Ø 15.8 - M8 - 1.25

E2 Ø 15.8 - 3/8" - 24UNF

A2(J) 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

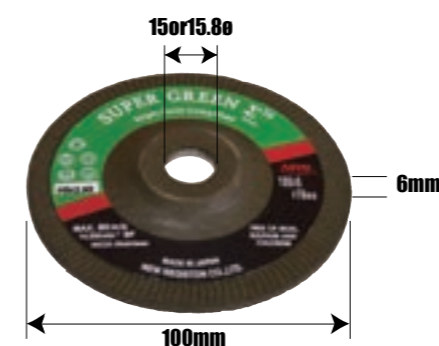


Rotary twist switch

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

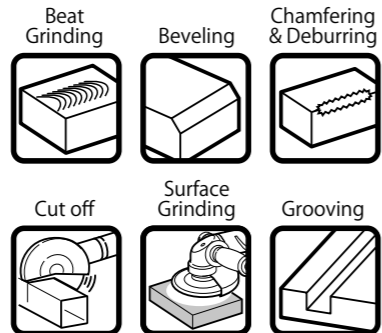


SPINDLE TYPE

A3 Ø 22.2 - M8 - 1.25

E3 Ø 22.2 - M14 - 2

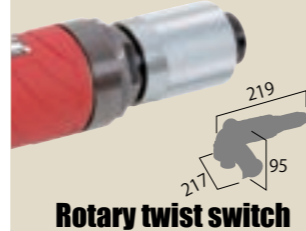
E4 Ø 22.2 - 5/8" - 11UNC



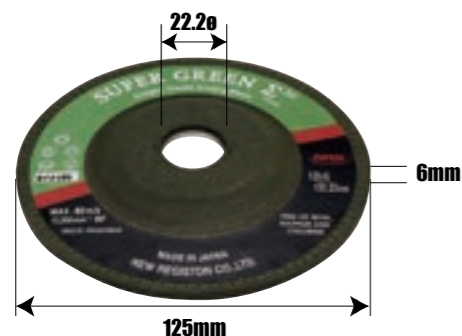
SI-AG5-E3P
SI-AG5-E4P
SI-AG5-A3P



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

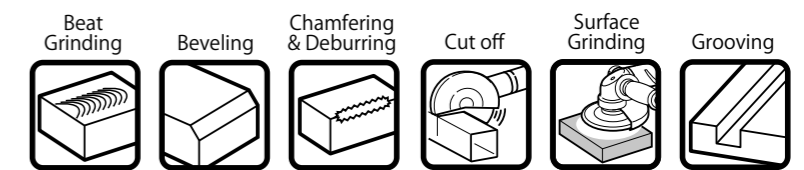
7" (180mm) ANGLE DISC GRINDER



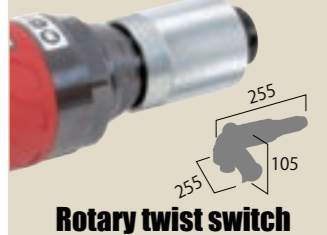
SPINDLE TYPE

A4 Ø 22.2 - 1/2" - 16UN

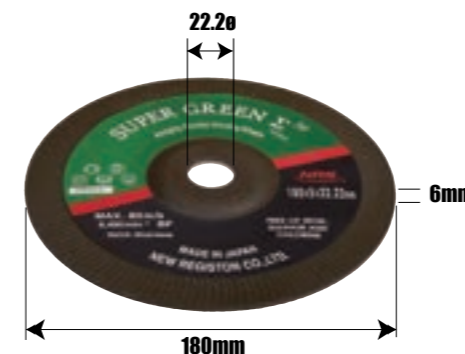
E5 Ø 22.2 - 5/8" - 11UNC



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

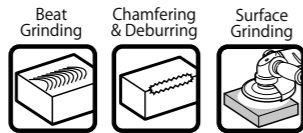
Noise levels according to ISO 15744:2008,ISO 11203:2009 Vibration level according to ISO 28927-1

STRAIGHT & COLLET TYPE

STRAIGHT TYPE DISC GRINDER

SPINDLE TYPE

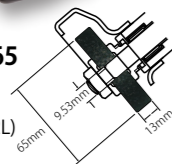
Ø 9.53 - W3/8" - 16



Option Accessorie

Parts No.630-W65

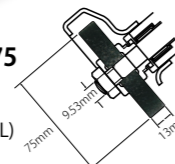
Disc Size :
65 × 13 × 9.53mm
(SI-SG3-2R & SI-SG3-2L)



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



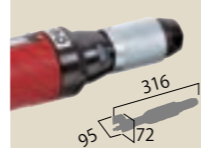
Palm grip-safety lever

SI-SG3-2R



Rotary twist switch

SI-SG3-3R



Rotary twist switch

Specifications

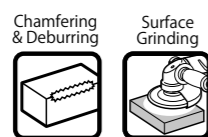
SI-No.	Free Speed (rpm)	Motor Watt (w)	Noise Level (db) Press/Power	Vibration(m/s ²)		Air Consumption		Air Inlet Size (inch)	Length (mm)	Width (mm)	Height (mm)	Weight (g)
				a	K	CFM	L/Sec					
SI-SG3-2L	14,600	520	83.5/94.5	2.86	0.78	14.2	6.7	1/4	316	82	95	1660
SI-SG3-3L	12,700	520	83.5/94.5	2.86	0.78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

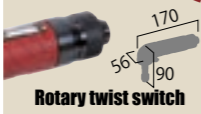
Parts No.129-100

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



Palm grip-safety lever

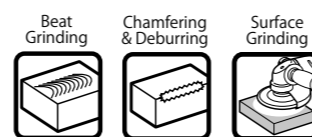
SI-AG2-C2R-6 SI-AG2-C2R-Q



Rotary twist switch

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.

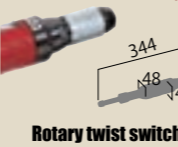


SI-SG3-CL-6 SI-SG3-CL-Q



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

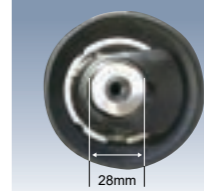
Two Hand Operation & One Hand Operation

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

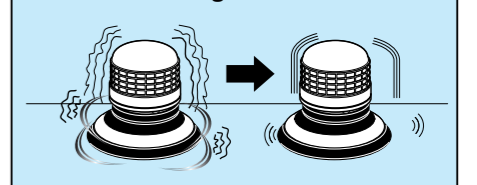


Wide random shaft reduce the yawing and vibration.

Wide random shaft



Less Yawing and Vibration



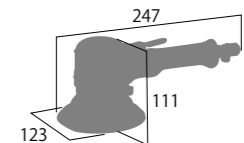
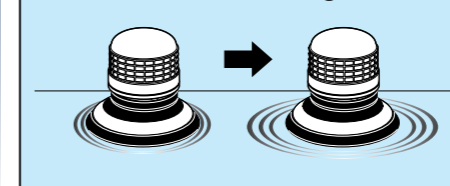
The steel balancer enhance the durability and stable balance.

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

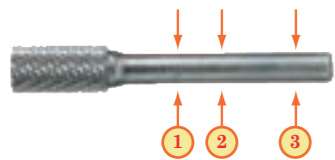
High Spec Collet



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.

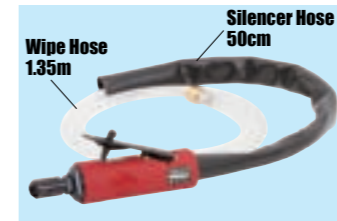
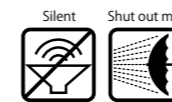
Rotary Twist Switch(R)



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=0.76/0.83 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

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

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.

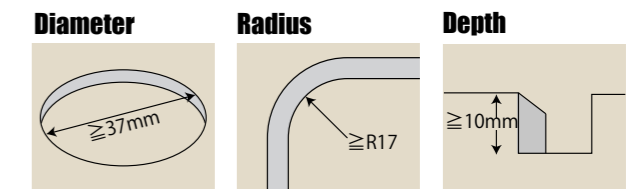
Original Carbide Tip

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

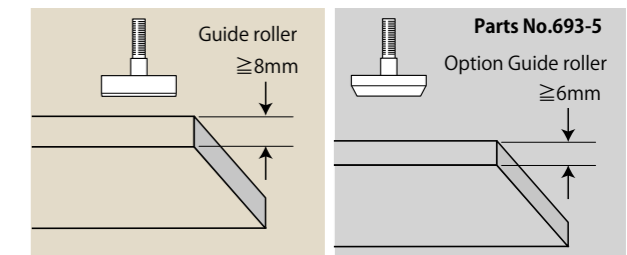
Superior Edge Finishing



Cutting range of Operation



Thickness



Tip cooling system

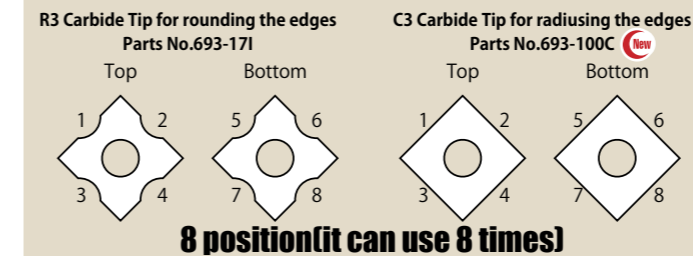
Air jets cool the tips directly, reducing the rate of temperature rise by about half and prolonging the life of the tips.



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



8 position(it can use 8 times)

SI-4012

Rotary twist Switch

Light Model



Free Speed..... 10,000 rpm
Motor watt..... 600 w
Weight..... 2,660 g
Air Consumption.... 16.00 L/sec
Air Inlet Size..... 1/4"



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..... 2,590 g
Air Consumption.... 16.00 L/sec
Air Inlet Size..... 1/4"

SI-4020

Rotary twist Switch

High Power Model



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



Tip Cooling system



Standard Carbide tips
Parts No.693-171



Optional Carbide tips
Parts No.693-100C



SI-4020L

Safety Lever



Free Speed..... 10,000 rpm
Motor watt..... 900 w
Weight..... 3,420 g
Air Consumption.... 16.00 L/sec
Air Inlet Size..... 1/4"



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.



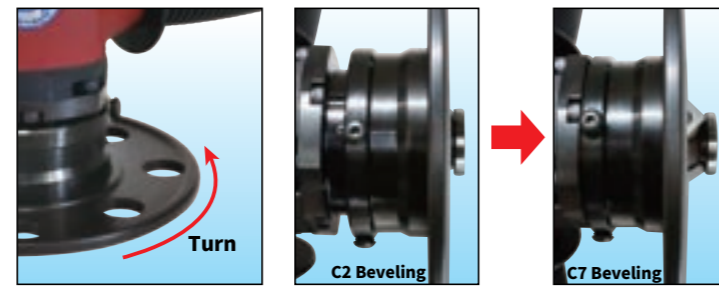
MODEL	Normal Temperature	Temperature at working	
		Tip	Spindle
SI-4010 (previous Model)	25°C	90°C	85°C
SI-4012/SI-4012L SI-4020/SI-4020L SI-4021/SI-4021L	25°C	59°C	56°C

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

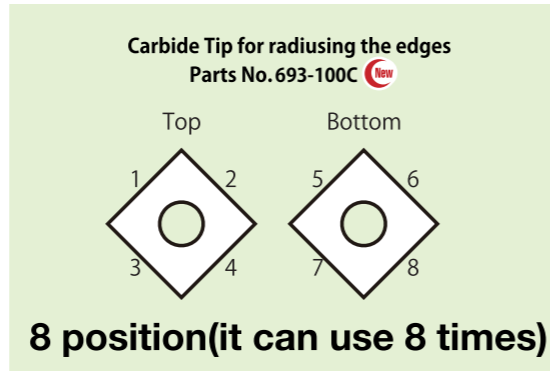
Cutting Range of Operation

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

Beveling from C2 to C7



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



Mini Beveler

Mini Compact Size

Direct Air Cooling:

Cools the tip directly with air, reducing temperature rise by approximately 50% and thereby extending tip life. In addition, the spindle benefits from internal cooling.

Tip Usage:

Each tip can be used on three sides. Each side can cut approximately 70 meters in SS400." (This value is for C1 beveling. Actual performance may vary depending on the usage environment and cutting volume.)

Beveling Capability:

Beveling from C0.1 to C2 are available

Cutting Range of Operation

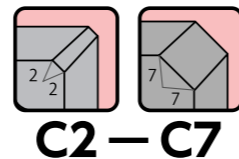
Diameter	Radius	Depth	Thickness
≥ 8mm	≥ R4mm	≥ 10mm	≥ 5mm



SI-4021

Rotary twist Switch

High Power Model



Free Speed..... 10,000 rpm
Motor watt..... 900 w
Weight..... 3,950 g
Air Consumption.... 16.00 L/sec
Air Inlet Size..... 1/4"

Product Video



SI-4021L

Safety Lever

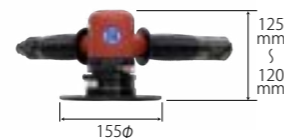
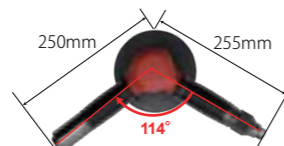


Free Speed..... 10,000 rpm
Motor watt..... 900 w
Weight..... 3,880 g
Air Consumption.... 16.00 L/sec
Air Inlet Size..... 1/4"

Height adjustment mechanism

Tip Cooling system

Swivel Exhaust



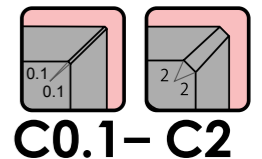
Standard Carbide tips
Parts No.693-100C



SI-4000

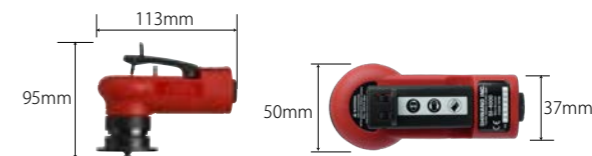
Beveling capacity..... C0.1-C2
Motor Watt..... 136 W
Free Speed..... 23,000 rpm
Number of Carbide tip..... 2
Weight..... 380 g
Air Consumption..... 7.3 L/sec
Air Inlet Size..... 1/4"

Safety Lever



Rear Exhaust

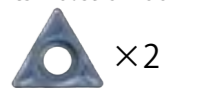
Beveling amount adjustment



Tip Cooling System



Standard Carbide tips
Parts No.690-100



Bead Cutter

Advantage

- Three carbide tips rotate at high speed to efficiently cut the bead.
- Achieves a uniform finish regardless of the operator's skill level.
- Removes beads with less force and vibration compared to a grinder.
- Generates no dust, reducing health risks. (Emits chips instead of dust.)



-For bead removal-



SI-4080 ^{New} Rotary twist Switch

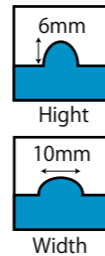
Cutting Bead Width Cap.... 10 mm
Cutting Bead Hight Cap..... 6 mm
Free Speed..... 10,000 rpm
Weight..... 4,500 g
Air Consumption..... 14.6 L/sec
Air Inlet Size..... 1/4"



Product Video

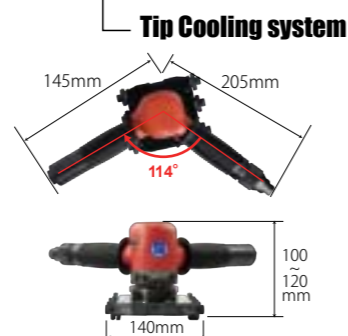


Cutting Capacity



SI-4080L ^{New} Safety Lever

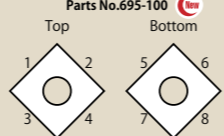
Cutting Bead Width Cap.... 10 mm
Cutting Bead Hight Cap..... 6 mm
Free Speed..... 10,000 rpm
Weight..... 4,430 g
Air Consumption..... 14.6 L/sec
Air Inlet Size..... 1/4"



Standard Carbide tips
Parts No.695-100



Carbide Tip for radiusing the edges
Parts No.695-100



8 position(it can use 8 times)

ACCESSORIES