



for Bridge industry



for Shipbuilding industry



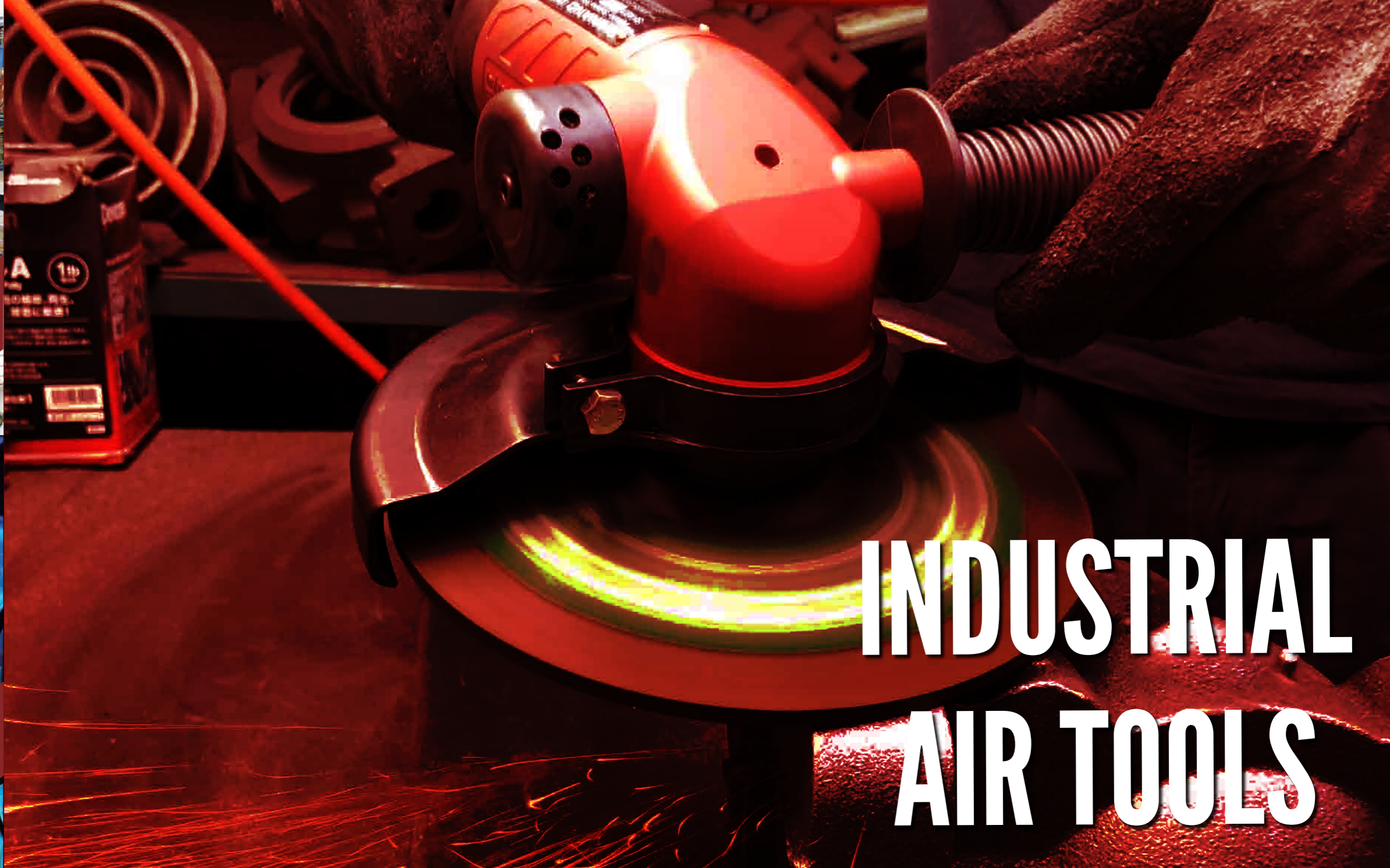
for Building industry



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

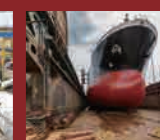
SHINANO INC.  
concepts for the  
Industrial range  
products are ;

- Productivity
- Accessibility
- Ergonomics
- Durability
- Safety

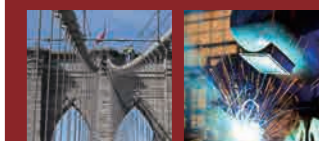
### Target market



Air craft



Shipyard



Bridge



Welding



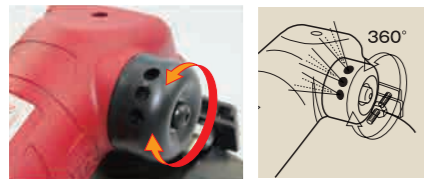
construction

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

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

## Adjustable Silencer

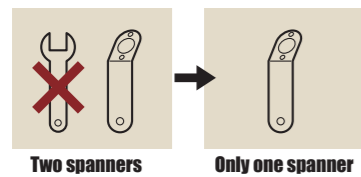
The 4", 5" & 7" Industrial Angle Grinders feature front mounted 360 degree adjustable silencers. This enables directional control of exhaust air.



## Spindle Lock



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

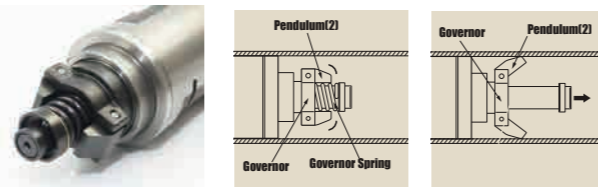


## High Precision Bearings & Gears

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)

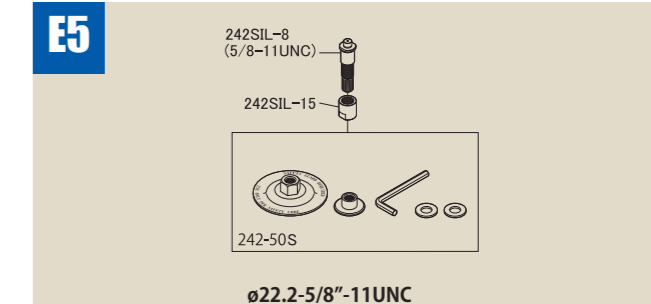
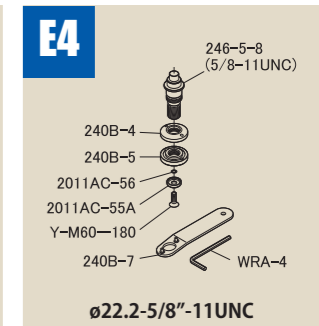
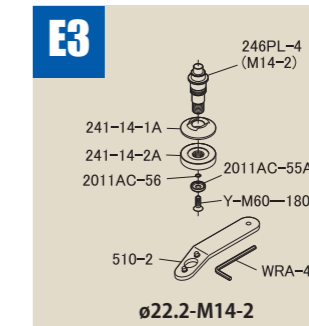
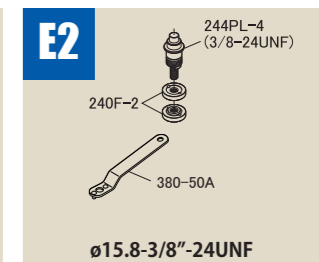
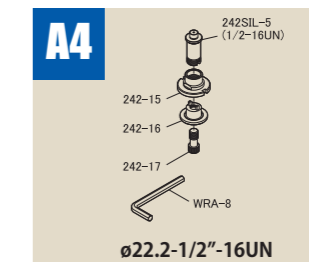
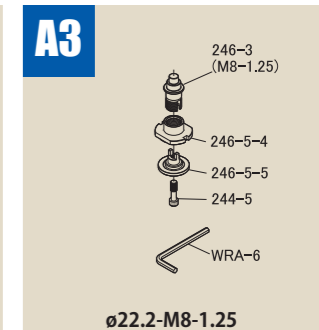
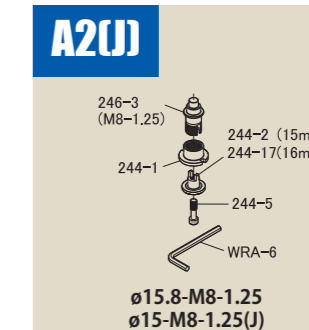
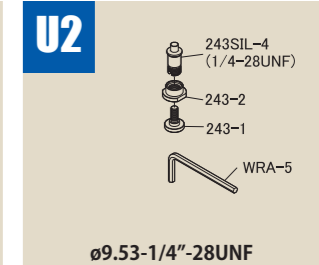
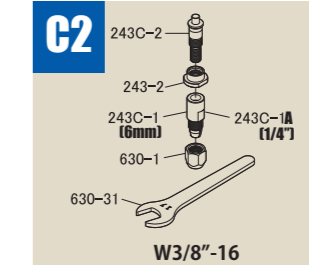
Twist Switch is suitable for Continuous operation. No switch stress to operators.



### Long grip-safety lever(L)

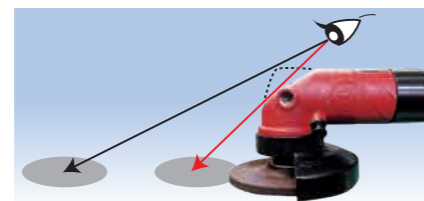
The same safety lever system of palm grip. The distance between Wheel and handle is longer than Palm Grip type. It is more safety.

## Spindle Type

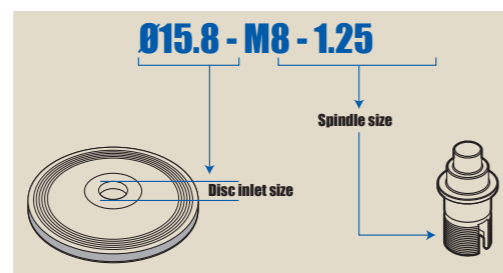


## Low Profile Gearbox

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

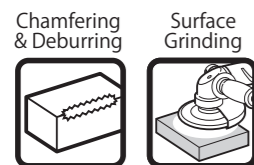
  

SG type	
<b>S</b>	Straight
<b>I</b>	Grinder
<b>G</b>	Grinder
<b>3</b>	Disc size : 3 inch. = 75mm
<b>C</b>	Collet Die Grinder
<b>R</b>	Rotary twist switch
<b>L</b>	Safety lever

## 2" (50mm) ANGLE DISC GRINDER

### SPINDLE TYPE

**U2** Ø 9.53 - 1/4" - 28UNF



**SI-AG2-U2P**



Palm grip-safety lever

**SI-AG2-U2R**



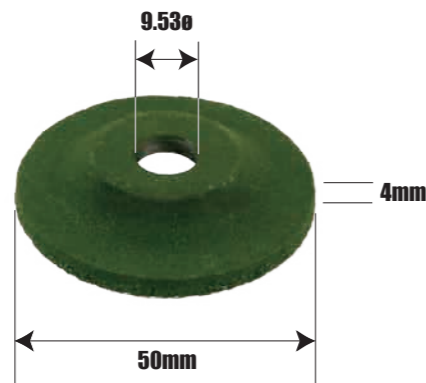
Rotary twist switch

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 <sup>2</sup> )		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

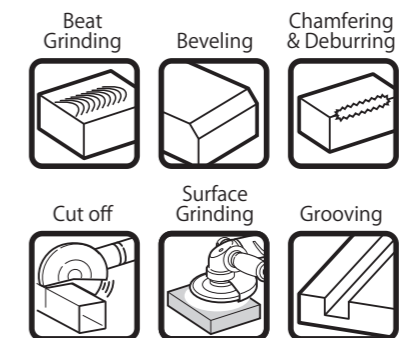
## 4" (100mm) ANGLE DISC GRINDER

### SPINDLE TYPE

**A2** Ø 15.8 - M8 - 1.25

**E2** Ø 15.8 - 3/8" - 24UNF

**A2(U)** Ø 15 - M8 - 1.25



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 <sup>2</sup> )		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

**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

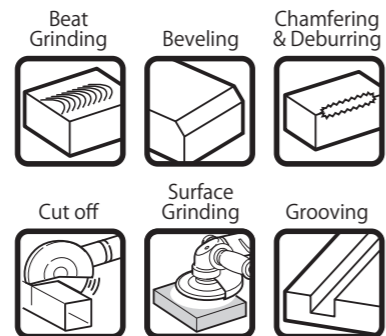
## 5" (125mm) ANGLE DISC GRINDER

### SPINDLE TYPE

**A3** Ø 22.2 - M8 - 1.25

**E3** Ø 22.2 - M14 - 2

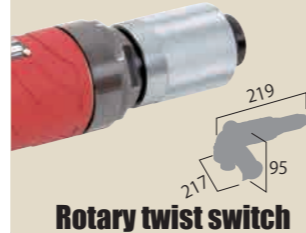
**E4** Ø 22.2 - 5/8" - 11UNC



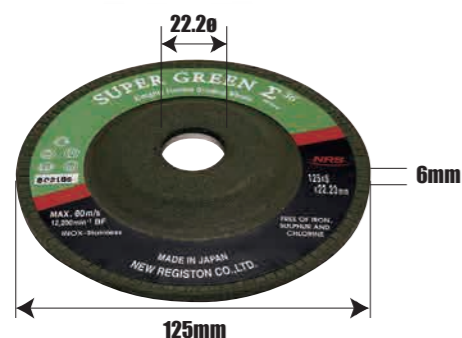
**SI-AG5-E3P**  
**SI-AG5-E4P**  
**SI-AG5-A3P**



**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 <sup>2</sup> )		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

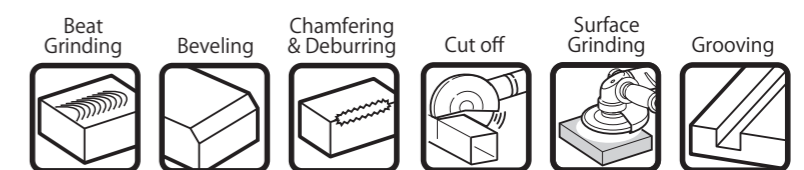
Noise levels according to ISO 15744:2008,ISO 11203:2009 Vibration level according to ISO 28927-1

## 7" (180mm) ANGLE DISC GRINDER

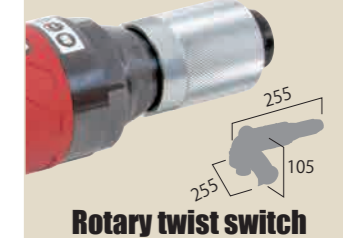
### SPINDLE TYPE

**A4** Ø 22.2 - 1/2" - 16UN

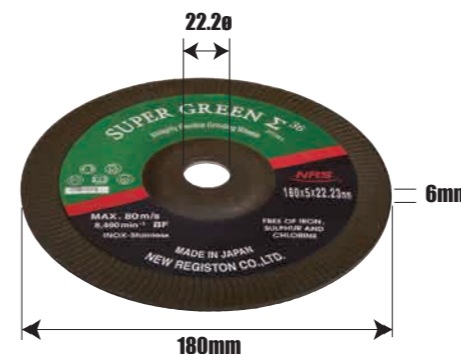
**E5** Ø 22.2 - 5/8" - 11UNC



**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 <sup>2</sup> )		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

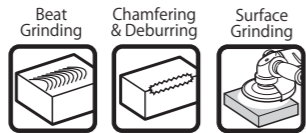
Noise levels according to ISO 15744:2008,ISO 11203:2009 Vibration level according to ISO 28927-1

## STRAIGHT & COLLET TYPE

### STRAIGHT TYPE DISC GRINDER

#### SPINDLE TYPE

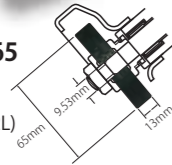
Ø 9.53 - W3/8" - 16



#### Option Accessorie

##### Parts No.630-W65

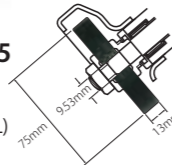
Disc Size :  
65 × 13 × 9.53mm  
(SI-SG3-2R & SI-SG3-2L)



#### Option Accessorie

##### Parts No.630-W75

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



#### SI-SG3-2L



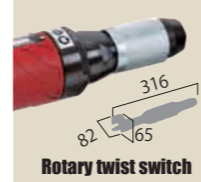
Palm grip-safety lever

#### SI-SG3-3L



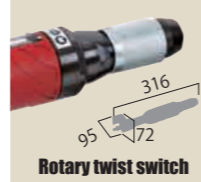
Palm grip-safety lever

#### SI-SG3-2R



Rotary twist switch

#### SI-SG3-3R



Rotary twist switch

#### Specifications

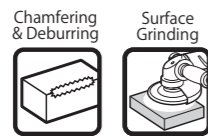
SI-No.	Free Speed (rpm)	Motor Watt (w)	Noise Level (db) Press/Power	Vibration(m/s <sup>2</sup> )		Air Consumption		Air Inlet Size (inch)	Length (mm)	Width (mm)	Height (mm)	Weight (g)
				a	K	CFM	L/Sec					
SI-SG3-2L	14,600	520	83.5/94.5	2.86	0.78	14.2	6.7	1/4	316	82	95	1660
SI-SG3-3L	12,700	520	83.5/94.5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



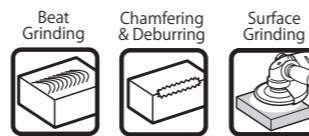
#### SI-AG2-C2P-6 SI-AG2-C2P-Q



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.

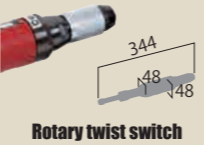


#### SI-SG3-CL-6 SI-SG3-CL-Q



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 <sup>2</sup> )		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

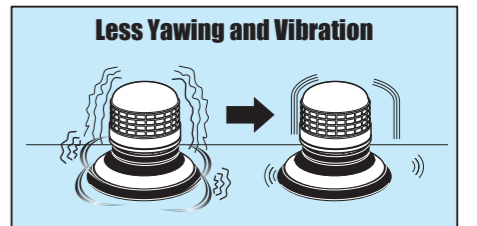
The short throttle lever close to center of gravity. Also, easy for one-hand operation.



Wide random shaft reduce the yawing and vibration.



Wide random shaft



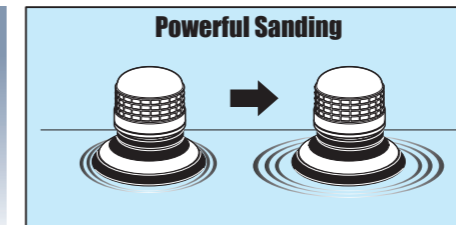
Less Yawing and Vibration

The steel balancer enhance the durability and stable balance.

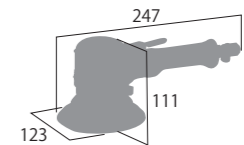


Durability

Steel Balancer



Powerful Sanding

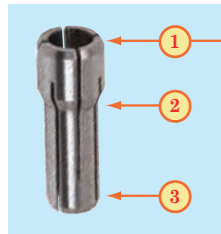


#### Specifications

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 <sup>2</sup>	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

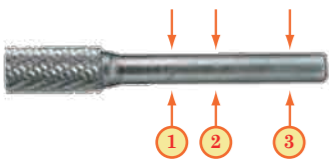


**High Spec Collet**  
Grips at 3 locations.



**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.

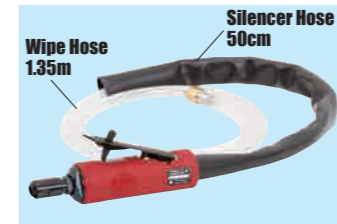
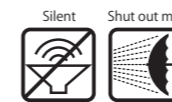
## Rotary Twist Switch(R)



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/s<sup>2</sup>  
K=0.77 m/s<sup>2</sup>

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/s<sup>2</sup>  
K=0.77 m/s<sup>2</sup>

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/s<sup>2</sup>  
K=0.77 m/s<sup>2</sup>

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/s<sup>2</sup>  
K=0.77 m/s<sup>2</sup>

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/s<sup>2</sup>  
K=0.55 m/s<sup>2</sup>

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/s<sup>2</sup>  
K=0.88 m/s<sup>2</sup>

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/s<sup>2</sup>  
K=0.69/0.81 m/s<sup>2</sup>

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/s<sup>2</sup>  
K=0.69/0.81 m/s<sup>2</sup>

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/s<sup>2</sup>  
K=0.76/0.83 m/s<sup>2</sup>

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/s<sup>2</sup>  
K=0.74/0.92 m/s<sup>2</sup>

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.

## 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

## Features

### Safety cutting method

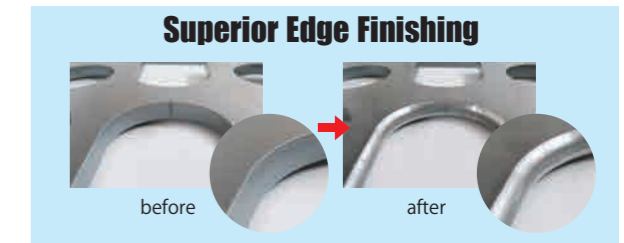
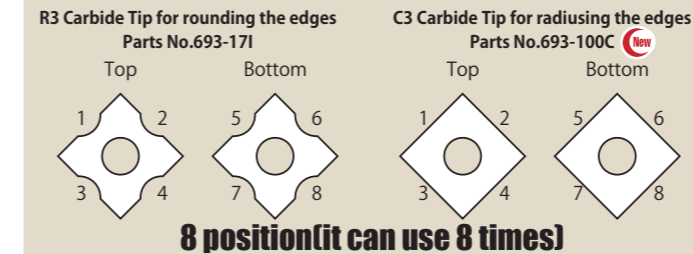
• The edge Bevelers are cutting the seat metal with hard tip. It is different method of working between the grinders, reduced sparking and rounded corners are safety since risk of injury.

### High quality welding seam

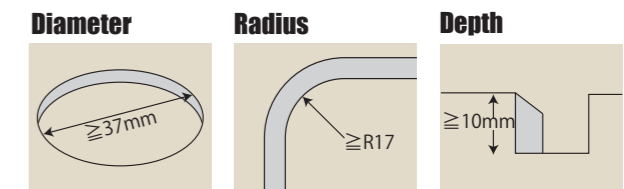
• The high quality of the welding seam is a particular advantage. Only one step, that is no need for refreshing and no any working. With our Bevelers can produce clean, burr-free and oxide-free finished edges.

### Original Carbide Tip

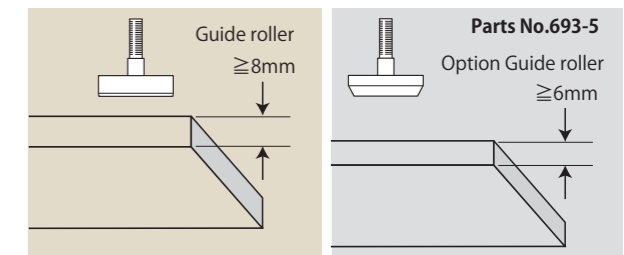
The router head features three cutting tips for high stock removal. Each tip gives 8 cutting edges offering a long and economical service life.



### Cutting range of Operation



### Thickness



## SI-4012 <sup>New</sup>

Rotary twist Switch

## Light Model



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



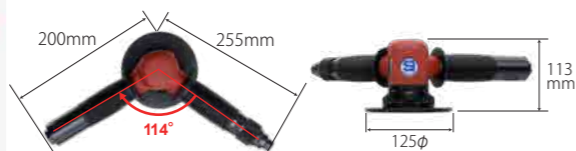
Tip Cooling system



Standard Carbide tips  
Parts No.693-171



Optional Carbide tips  
Parts No.693-100C



## SI-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 <sup>New</sup>

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"

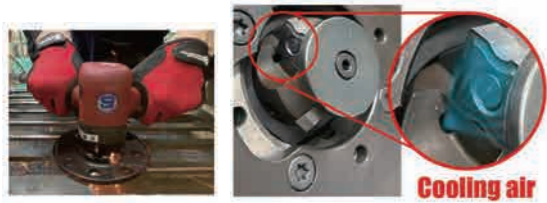




# Beveler C2-C7

## Tip cooling system

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

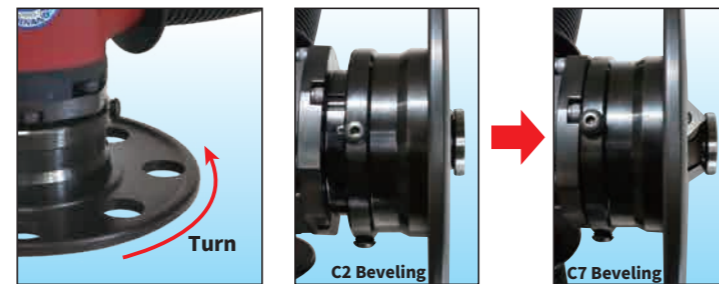


Cooling air

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

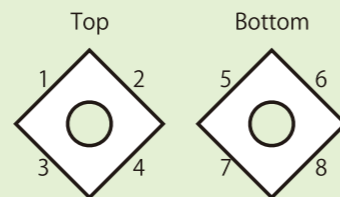


The height of the cutter holder can be adjusted from C2 to C7 by turning the base plate.

## 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

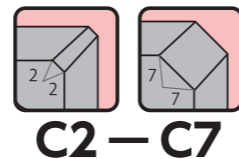


8 position(it can use 8 times)

## 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



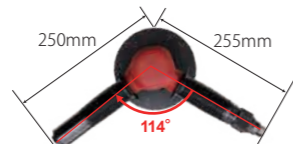
## SI-4021L

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'

## Swivel Exhaust



Standard Carbide tips  
Parts No.693-100C

