

*Eternal Living Stones*

## Bringing Stone to Life

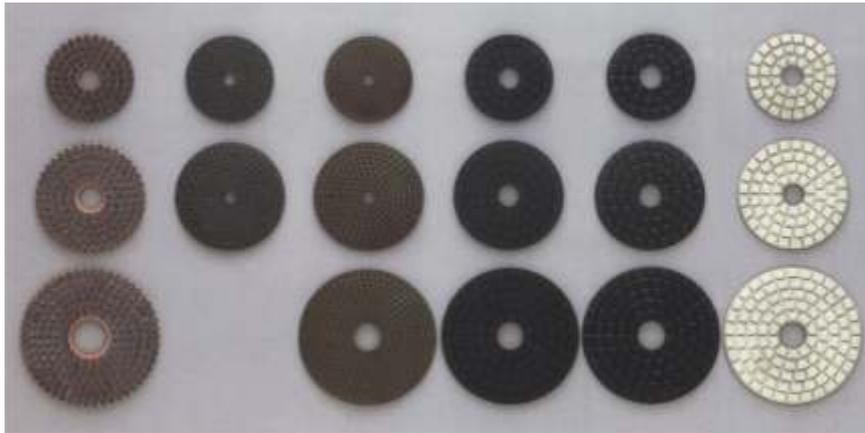
*Polishing stone is in a way, bringing to life Sanwa Kenma offers its experience and technology to introduce ideal ways of working with stone and creating high precision, flexible polishing systems Sanwa kenma's "Polishing arts" are among the leading processes being utilized in the abrasives industry today We are a partner technology your company can trust*

# DIA CERAMICA®

*Dia Ceramica series, the flexible polishing pads, enable to polish any curved granite applications. People who requests quality insists our Dia Ceramica series every where in the world.*

Diameter : 80mm, 100mm and 125mm  
Grit : #60 to #3000 and Final polishing grades (Details see below)  
Bond Type : Vitrified, Metal, Resin and Buff

Card Size Sheet : 80mm x 120mm,  
# 150R to #3000R and  
Final polishing grade



Vitrified bonded    Metal bonded    Resin bonded    Buff (Tsuya)    Buff (Black)    Buff (White)

## Vitrified bond grade 60V 150V 300V

Vitrified bond grade has outstanding material removal rate for quick jobs. The grade suits for bull nose grinding.  
#60V, #150V and #300V

## Metal bond grade 60M 150M 300M

Metal bond grade has very high free-cutting ability and generates a better surface roughness. It is suitable for flat waved and concave surface in a serpentine design.  
#60M, #150M and #300M

## Resin bond grade 150R 300R 500R 1000R 2000R 3000R

Resin bond grade is the genuine original disc to polish a curved surface. It is widely known and appreciated at every stone processor. It's a operator friendly disc to obtain a sparkling shine on granite.  
# 150R, #300R, #500R, #1000R, #2000R and #3000R

## Buffing grade Black White Tsuya

Buff disc is for a final polishing operation to increase deep and sparkling gloss on surface. No one can match its artistic shine. Before using a buff disc, it is necessary to have a fine processed surface by fine diamond discs.  
Buff type : Black, White and Tsuya.

## Options

In order to optimize performance and save a job down-time, Sanwa Kenma offers the following systems for wheel joints. M14 and M16 are available.

- DIA CERAMICA Pad
- KIRARA One Touch Pad
- TWISTOUCH Joint



DIA CERAMICA Pad    KIRARA One-touch Pad    TWISTOUCH Joint



Vitrified



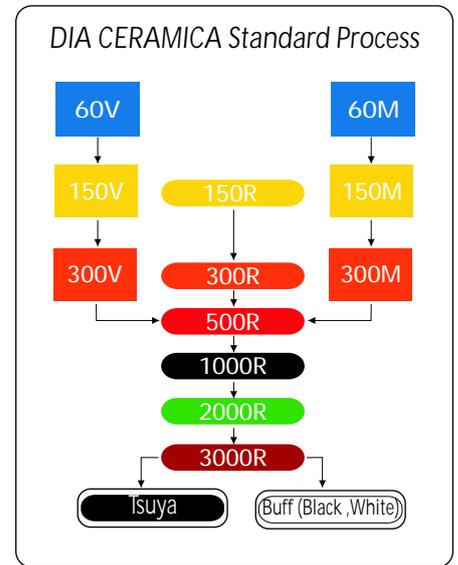
Metal



Resin



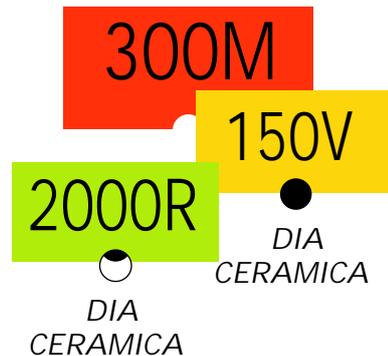
Tsuya



Buff (White)

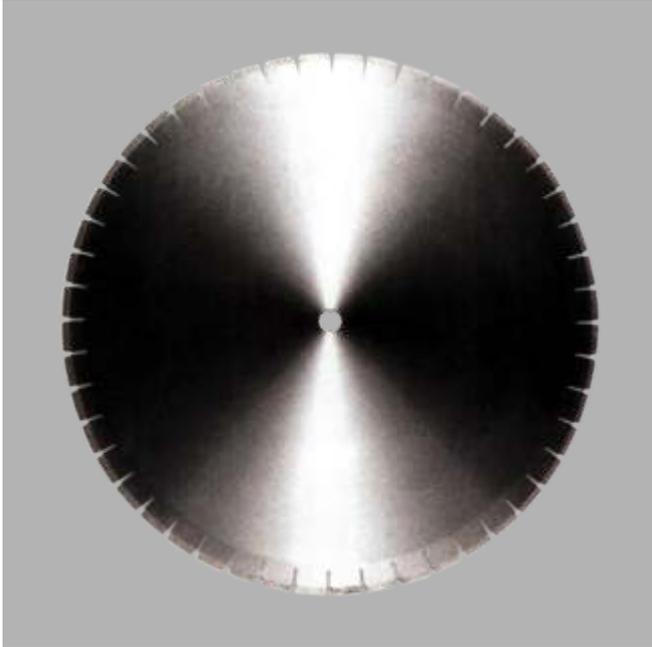


Buff (Black) F-1 type



# Blades

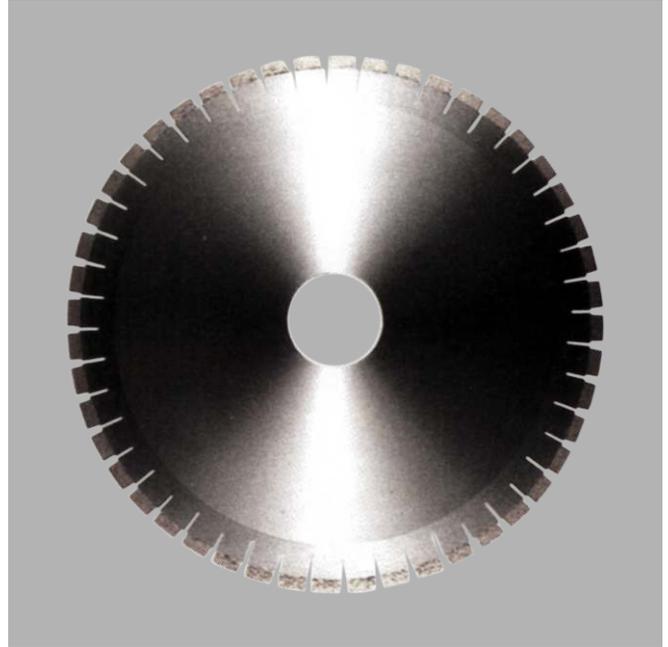
Sanwa Kenma offers Circular saw blades for fast and high dimensional controlled cut applications. It's designed for high productivity and consistent quality.



## Sanwa Cut

*Sanwa Cut has thin metal tips to cut dimensionally controlled applications. Also there are wide tips available for block cutting.*

Diameter : 20 to 300cm (8 to 120 inch)  
Steel Plate : Standard plate and Silent plate.



## Coping

*Coping model is designed for extremely precise slab cutting applications.*

Diameter : 35 to 70cm (14 to 28 inch)  
Steel Plate : Standard plate and Silent plate.



## Dry Cutters

*In dry applications, it is available for various bond grades suitable for different workpiece materials from Ceramics to Stone. There are various wheel designs for cutting and grinding applications.*

Diameter : 100mm to 200mm  
(4 to 8 inch)  
Model : Sawing, Tuck-point and Cup wheels



## Tile Cutters

*At a construction job site and processing shop, it can complete a fast and precision cut efficiently.*

Diameter : 200mm to 300mm  
(8 to 12inch)



## Bevel Cutters

*It is designed for bevel chamfering applications. It has free-cutting bond for higher productivity.*

Diameter : 100mm to 125mm  
(4 to 5 inch)

# SUMMIT®

It can produce a fast and consistent high gloss finish in flat surface applications. SUMMIT series are widely used in monument processing industries everywhere in the world. Nobody can match its sparkling shine and finish.

Size : 100mm, 125mm, 150mm, 175mm, 200mm, 250mm, 300mm, 350mm and 400mm (We can provide the other sizes upon a request )

## Flat Surface Polishing Standard Process



### Rubber cushion for Buff

Rubber cushion for a consistent workpiece contact and heat generation.



### Metal grinding wheel

Grit : #40M, #50M, #60M, #80M, #100M, #200M, #300M, #400M

Bond hardness : A3~A6



### Resin polishing wheel

Grit : #100R, #200R, #400R, #500R, #800R, #1000R, #1500R, #2000R, #3000R

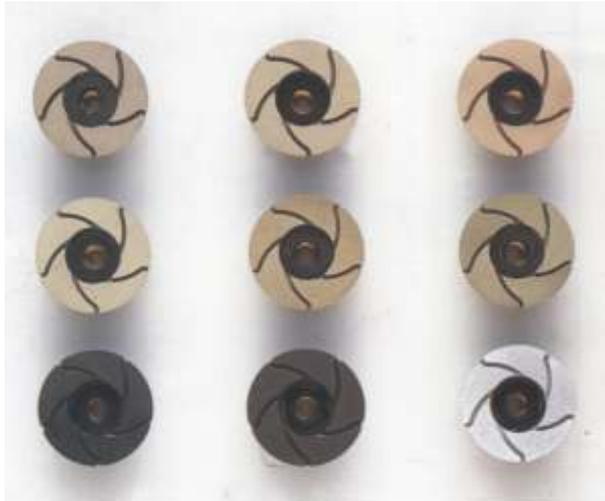
Bond hardness : M3~M6



### Final buffing wheel

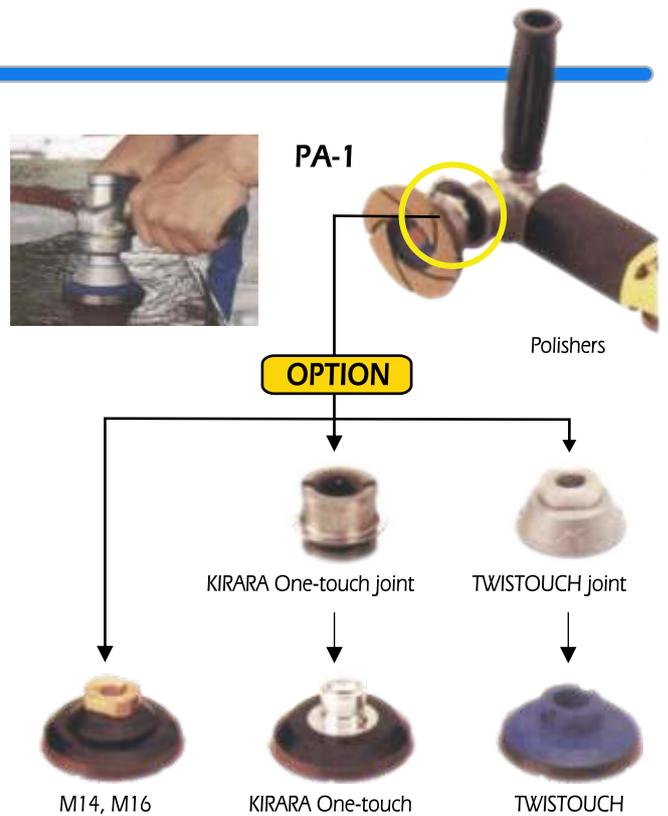
Grade : Black, White, Others

# TWINCUR® -MP



*Twincur-MP, Manual Polish, will show very high performance on small flat surface areas on our polishing machine series.*

*Diameter : 80mm and 100mm  
Grit : #100, #200, #500, #1000, #2000, #3000, Buff Black,  
Buff White and Buff Tsuya  
Joint Type : M14, M16, KIRARA One-touch  
and TWISTOUCH joint*



*Optional joint series are genuine for Sanwa Kenma polishing series. You can save a down time by those quick and user-friendly tool change systems.*

# TWINCUR-L



*Twincur-L is designed for small flat surface polishing on CNC machines and Radial arm polishing machines. It is good for Kitchen and Vanity top plates polish.*

*Diameter : 100mm (4 inch)  
Grit : #100, #200, #500, #1000, #2000, #3000  
Joint Type : SF, TOR*

# TWINCUR-EG



*Twincur-EG is designed for a straight edge polish and a flat surface polish on automatic polishing machines. It will produce a very high shine.*

*Diameter : 125mm and 150mm (5 and 6inch)  
Grit : #80, #150, #300, #500, #1000, #2000, #3000  
Joint Type : SF, Velcro™*

# MINI DIA ROUND



*Mini Dia Round series are a small diameter diamond wheel to polish a narrow or small limited area.*

*Diameter : 30mm, 40mm and 50mm  
Grit : #150, #400, #800, #1500, #3000, Buff Black  
and Buff White  
Joint : M14 or M16*

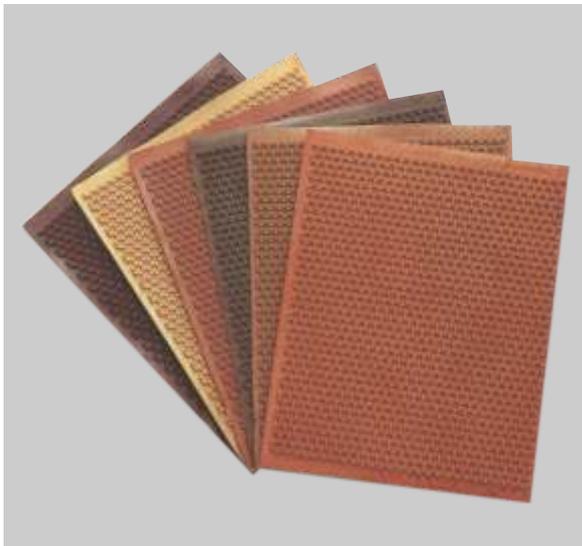
# PAPILLON®



- Metal  
Length : 140mm, 175mm  
Grit : #40 to #600
- Resin  
Length : 140mm  
Grit : #100 to #4000
- Buffing  
Length : 135mm, 140mm,  
170mm, 175mm  
Grade : R, TW

*Papillon series are the polishing tools for "Fickert" type oscillating head machines. Papillon series will bring very high productivity in a slab processing line. Buffed by Papillon-R, even harder granites will have an outstanding shine on its finish surface. In red granite, it will produce a sparkling red shine finish. It is available for various product grades in buffing from granite to ceramics workpiece materials.*

## ORIGAMI



*"Origami" sheet is available for various kinds of polishing applications. It is an original approach to cut into any desired dimensions and shapes from Origami. A cylindrical drum for contour polishing is the most popular application.*

Dimension : 250mm x 210mm  
Grit : #150, #300, #500, #1000, #2000 and #3000

## Gloss Checker

*It is the most popular method to measure a finished surface by this digital count meter as world-wide standard.*



IG-320



IG-331

## Marking Chalk



*Marking chalk is to distinguish no polished areas from polished area in wet stone surfaces. You will avoid a defect job easily.*

72pcs / box

# Portable Polishing Machines

Portable pneumatic and electric handy polishers are specially designed for manual operations with our polishing discs, DAI CERAMICA, TWINCUR and MINI DIA Round series etc. Each polisher has a center water feed system to optimize a tool life and consistent polish quality. The available joints are, M14, M16, KIRARA One-touch and TWISTOUCH.



Electric Model : AWP - 216

The electric polisher AWP - 216 is designed for professional stone fabricators. The water coolant sprinkles from a spindle nozzle achieves the best performance of discs used on.

Rating.....220 Volts  
 Amperage.....3.8  
 Power.....800W  
 Speed.....3,000RPM  
 Weight.....2.7 kg.



Pneumatic Model : PA-1 , PA-2

Pneumatic model, PA-1 is the operator friendly machine with a lightweight and a compact body. It achieves a low noise operation by the trail exhaust system and a longer tool life by the center water feed system. It is available for CE model as PA-2

Machine Weight : 1.2 kgs  
 Spindle Speed (no loading) : 3,400 min<sup>-1</sup>  
 (0.6Mpa)  
 Required Compressor Ability :  
 3.75 kW(5PS)0.5-0.7MPa (5-7 kgf/cm<sup>2</sup>)  
 Air Consumption : 15cfm  
 Spindle : M14 or M16



HANDY-3 with Caster wheels

This caster system produces a flat surface polish with ease. It supports a smooth wheel traverse to obtain consistent flat polishing.

Machine Weight : 3.5kgs  
 Spindle Speed : 2,000min<sup>-1</sup>  
 Working Power Supply :  
 100V AC 385W / 200V AC 400W  
 Spindle : KIRARA One-touch

# Abrasive stones and tools for polishing Metals

## Super finishing stones

For metal parts with increased functionality, high-precision grinding and polishing are indispensable. With our original tool technology to finish work-piece materials on the order of microns, we long contributed super-finishing process for bearing more than 50 years. We offer a variety of abrasive stone for polishing and grinding various kinds of metals. There are wide applications for high-precision processing. Our products cover the surface for Automobile parts, electrical device, bearing, die assembly, crystal and quartz, optical glass, semiconductor and so on.



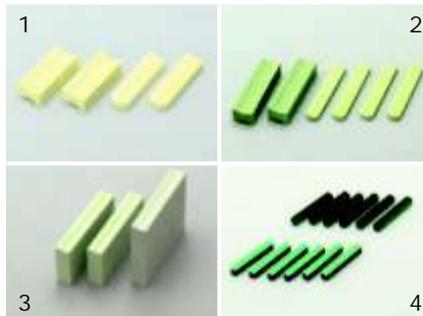
## Super finishing stones

### Applicable components

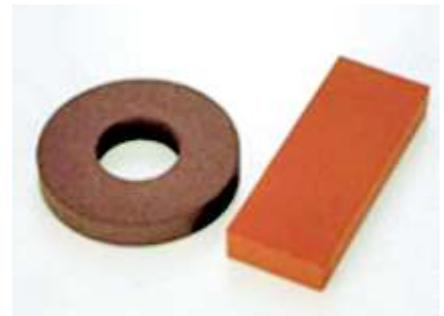
- Bearing raceway surfaces
- Shafts
- Cylindrical rollers
- Needle rollers
- Piston pins
- Tapered rollers
- Spherical rollers

### Processing methods

- Plunge cut
- Traverse cut
- In-feed processing
- Through-feed processing



- 1 ) WA(Aluminum Oxide based) has sharp edge
- 2 ) GC(Silicon Carbide based) contains hard abrasives to give fine surface
- 3 ) EP(WA with special modification) is for roller, through feed processing
- 4 ) CBN (Cubic Boron Nitride) has unique characteristic on life. Affective for miniature bearing processing etc.



## Applications for Stainless steels polishing

Abrasive for polishing stainless steels:  
 Special resilient abrasive stone perfect for process of stainless steel plates which can produce up to mirror finishing

### Applicable components and process

Applicable work materials

All kinds of Stainless such as  
 SUS304, SUS404 Titanium, Aluminum

### Processing methods

Suitable for surface of non-ferrous metal  
 Automated polishing, Radial arm polishing,  
 hand polishing, Mirror polishing

# Sanwa Stone Restoration System

## SR discs

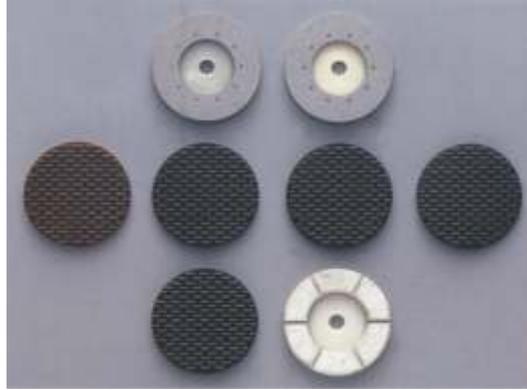
Sanwa Kenma SR system brings old covered stone tiles back to life with no acids and no chemicals. Each step of the pads makes it possible to grind, hone and also polish floor tiles of Granite and Marble at a new construction and daily maintenance job site. A great advantage of the SR system is a quick processing to complete a restoration in a limited renovation period.



Before Execution



After Execution



### STANDARD PROCESS



Approx. 2min./m<sup>2</sup> processing in each step is recommended to bring old marble back to life

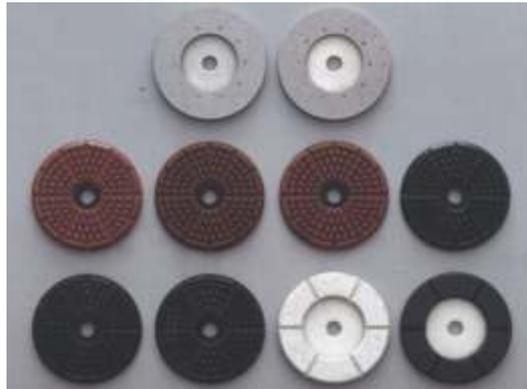


## Lippage Remover

It is specially designed for a faster job for lippage removing in floor tile joints. Also it is for less - stumbling and safety.

Spindle Speed : 9.500 min<sup>-1</sup>  
Loading Power Supply : 100V AC  
400W

Machine Weight : 4.5Kg.



### STANDARD PROCESS



Approx. 3min./m<sup>2</sup> processing in each step is recommended to bring old marble back to life

## Electric Model : AWP - 216

Rating.....220 Volts  
Amperage.....3.8  
Power.....800W  
Speed.....3,000RPM  
Weight.....2.7 kg.

## Floor Polishing Machines of SR system

Electric floor polisher p-16 & p-17, Japanese durability, reliability with higher performance at affordable prices



model		electric consumption	motor power	driver pad size	high speed		electric cable (m, mm <sup>2</sup> )	Weight (Kgs)
					50hz	60hz		
p-16	standard	1,200	1.25	350	160	190	12.2.7	32
	High Speed	1,300	1.5		200	240		34
p-18	standard	1,300	1.5	400	160	190	12.2.7	42
	High Speed	1,500	1.5		200	240		43



## Floor Grinding : MKC - 300

Very Compact size is available even for small work place. It is very easy to handle and be smooth for carrying up the stairs. It is possible to remove and handle part for your facile carriage.

Designing of 30cm wide grinding width with Original Diamond discs. Possible to work powerfully!

MOTOR : 1.5KW  
POWER SOURCE : 200V  
ELECTRIC CONSUMPTION : 7/6.3 Ampere  
Maximum Length of machine : 1,160mm  
Length (Under putting away handle) : 650mm  
Width : 530mm  
Height : 900mm  
Standard weight (Except weight kit) : 66kg  
Rotation Speed : 60Hz / 1.130m<sup>-1</sup>  
Optional Equipment : Additional Weight Kit  
Optional 220V / 60Hz Motor is available