

MARMO+MAC™

THE BIGGEST **STONE** + **DESIGN** + **TECHNOLOGY** TRADE FAIR

27|30 SEPTEMBER **2017** Verona, Italy



TOUEI INC.

OSAKA, JAPAN



PNEUMATIC WET POLISHER

WATER SANDER WS-6

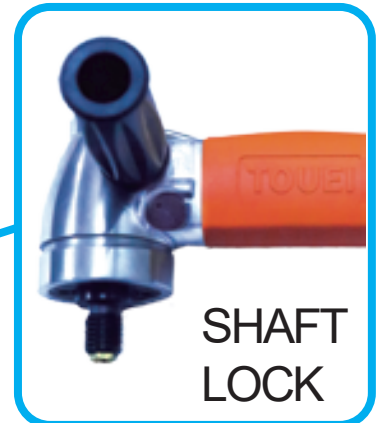
WATER SANDER WS-6S(WITH SAFETY LEVER)

In 1968, we launched the first wet pneumatic polisher in the world called "Water Sander WS-5". Today, we have developed our new and updated air polisher "Water Sander WS-6" and "Water Sander WS-6S" with the latest technology representing Japan.

Water Sander WS-6 and WS-6S are easy to work with, and have more grinding power than you imagine. Compared with our previous Water Sander WS-5, grinding power increased by 50% and durability by 30%. We have also succeeded in reducing noise, especially noise at a high rotation speed.

BASIC SPECIFICATION

Rotation Speed	5000r.p.m. (without load) 4000r.p.m. (with load)
Max Working Pressure	90psi (6.0BAR / 0.58MPa)
Air Consumption	460L (16CFM) / Min
Output	0.24KW
Compressor	3.76KW (5.0HP)
Weight	1.02kg
Noise	83DB



Use this new feature to change your polishing pads by changing a backing pad, so that polishing pads will rotate in a perfect circle and cause less damage to the machine.

WS-6

WS-6S



WS-6S is equipped with a safety lever, to comply with the EU Mechanical Directives.



A rear exhaust system achieves reduced noise when polishing. It also manages to decrease scattering of motor oil, and keep users unaffected by cold wind coming out of the machine.



MADE IN JAPAN

Both Water Sander WS-6 and WS-6S are designed and assembled by experienced engineers in Japan. All parts and assembled machines are tested for their durability, noise, and vibration, so that we can continue to provide superior quality products in a long run.

No compromise is made with accessories either; for example, hoses are made of flexible and high-quality material to improve working conditions and efficiency of workmen who tend to move around the stone. Each machine has a serial number so that when a problem is reported, we can track and trace the machine and find out what went wrong.

However, please use the machine carefully, as instructed in the owner's manual. The most popular cause for failure is not lubricating the machine with spindle oil before and after use. Another popular cause for failure is using polishing pads bigger than 100 mm (4"). So, always lubricate the machine before and after use, and do not use 125 mm (5") polishing pads on these machines.

Use of an air compressor filter and a regulator is strongly recommended



PNEUMATIC WET SANDER

CHIP SANDER

This sander is perfect for polishing the narrow places that could only be polished by hand, and increases the work efficiency.

WET ORBITAL SANDER

This sander is with low center of gravity, high torque, and well balanced. It makes less vibration. Since it is wet type, it does not scatter dust. This provides a beautiful finishing and is an ideal for work on flat surface finishing.

WET DOUBLE ACTION SANDER

This sander is lightweight and makes less vibration. It is of very high quality and adopted by the major automobile industries.

	Rotation Speed (Without Load)	Air Consumption		Motor Output		Max Working Pressure			Compressor Output(HP)
	rpm	L/min	CFM	HP	kW	bar	PSI	MPa	
CHIP SANDER	15000	400	14.1	0.17	0.13	6	87	0.6	5
WET ORBITAL SANDER	10000	440	15.5	0.27	0.20	6	87	0.6	5
WET DOUBLE ACTION SANDER	10000	440	15.5	0.27	0.20	6	87	0.6	5

TOUEI BACKING PAD

Regular



Hard



Soft



Type : Regular and Hard and Soft Size : 100mm(4") Spindle : 5/8-11 / 14mm / 16mm

Our backing pads are made in Japan and there are three features.

1. Capable of rotating in almost a perfect circle. The cheaper back pad with misalignment can't rotate in a perfect circle, and causes a damage to the machine.
2. Approx. 20 % lighter than older backing pads.
3. In addition to the regular backing pad, there are two new pads, Hard and Soft type. Hard type is for the flat surface, and Soft Type is for the curved surface.

DRY FILTER & PRESSURE REGULATOR UNIT



The compressed air, made with compressor, contains contamination such as oil and moisture. Contamination is the cause of damage in the Air Polisher. If compressed air is being sent from the compressor, the air filter is required in order to prevent condensation from the air hose.

Also, the motor of the older air polisher has less power, so more air pressure is needed. But our WS-6 adopts the latest motor, so less air pressure is required. The correct amount of air pressure is required in order for obtaining the best performance of the polisher. If you use more power than necessary, it will damage the polisher.

MARBLE FLEX DIA



Size: 80 mm (3"), 100 mm (4")

Grit: #100, #200, #400, #800, #1500, #3000, #6000

Marble Flex Dia is a series of durable and flexibles synthetic diamond polishing pads specially designed for polishing marbles. It is made with a unique technology and achieves to improve sharpness as well as durability.

With Marble Flex Dia you can cut substantial amount of working hours and reduce production cost; depending on the quality requested by a client, you can shortcut some steps during polishing.

Examples based on our experiments on bianco carrara marble:

4 Steps (#200, #400, #800, #1500)	70GU
5 Steps (#200, #400, #800, #1500, #3000)	85GU
7 Steps (#100, #200, #400, #800, #1500, #3000, #6000)	100GU

Marble Flex Dia can also be used on floor polishers.

ART FLEX DIA



Size: 80 mm (3"), 100 mm (4")

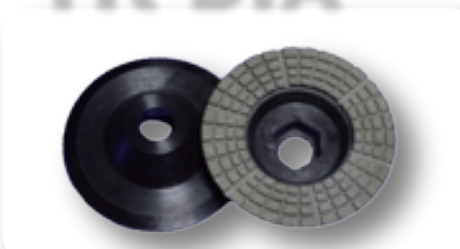
Grit: #60, #100, #200, #400, #800, #1500, #3000, TSUYA, BUFF (WHITE), BUFF (BLACK)

Art Flex Dia is a series of polishing pad specially designed for granite.

Resin-bond synthetic diamonds are radially placed with enough number of grooves to drain water well and cause less clogging.

Usually, a sharp cutting pad has a shorter life, because it cuts well and uses up diamond resins fast, but Art Flex Dia uses unique resin-bond diamond recipe that achieve both durability and sharpness.

TK DIA



Size: 100mm(4")

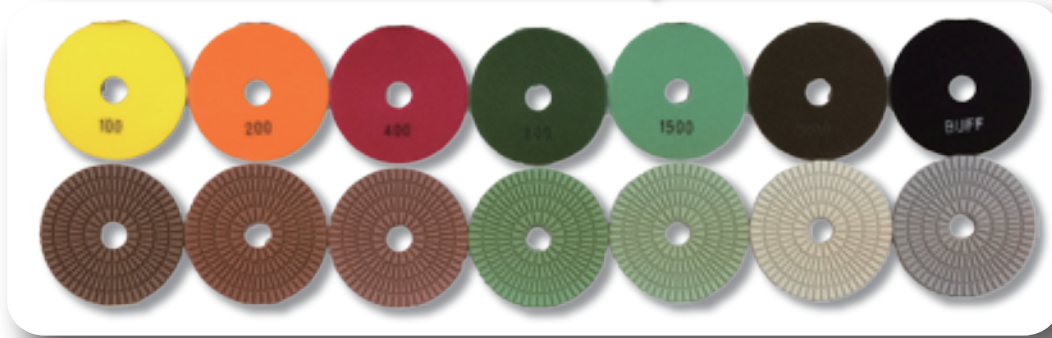
Grit: #50, #100 (DRY)

Grit: #100, #200, #400 (WET)

TK Dia disc is used for polishing the horizontal surfaces.

It can polish well and be used for both dry and wet grinding.

SUPER FLASH (DRY and WET)



Size: 100 mm (4")

Grit: #100, #200, #400, #800, #1500, #3000, Buff

Super Flash is a series of polishing pad specially designed for polishing granite. It can be used for both dry and wet polishing.

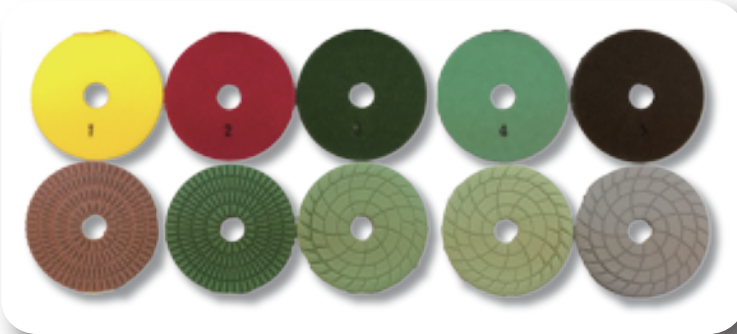
FOR QUARTZ STONE

Size: 100 mm (4")

Type: #1, #2, #3, #4, #5

Super Flash for Quartz Stone is a series of polishing pad specially designed for variety of quartz stone. These diamond pads can be used on quartz stone of different characters and types.

Please use meshed diamond pads (type #3 - #5) after soaking them in water.



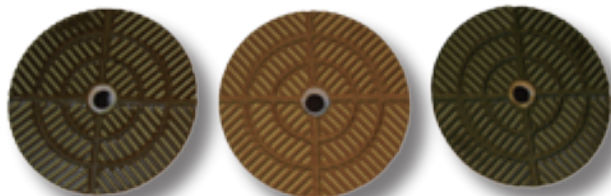
POLISHING DISCS

SUPER FLAT

No.1

No.2

No.BE



Grit: #1500~#3000 #4000~#8000 #8000~#10000

Size: 5, 6, 8, 10 inch Grit: No.1, No.2, No.BE

By adopting the original bonds and chips, we were able to improve the work efficiency and extend the life span of Super flat.

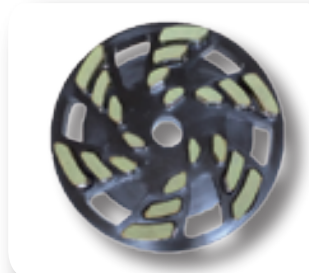
SUPER FINE



Size: 4, 5, 6, 8, 10 inch

Super Fine is a polishing pad for the final step and can provide you the gloss of the stone. It is weather resistant and makes the mirror surface possible.

SUPER ELITE



Size: 4, 5, 6, 8, 10 inch

Super Elite is a polishing pad to use before the final polishing process. It will cover all steps from #1500 to #3000, and from #2000 to #5000. You can save time of the final buff polishing and also keep the stone luster longer.

SUPER SHINE(BUFF)



Size: 6, 7, 8, inch

Super Shine is developed as a finest buff pad for the first time in the world. Regardless of the types and colors of the stone, you can obtain the best gloss

MAGICAL RUST REMOVER



NET WT: 400g

This product is natural gentle, neutral rust remover made from natural origin. The rust attached on stones, tiles, and metallic product can be easily removed. After apply Magical Rust Remover, you can see the effect since the color changes to purple in response to rust. After 5 minutes, you can wash the stones in water and then the work is done.

STONE PROTECTIVE TREATMENT AD-COAT



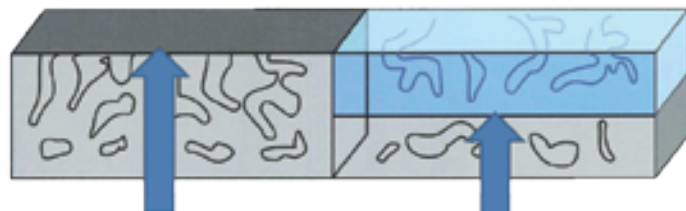
UnCoated

Coated



AD coat is not a product intending for surface waterproofing. It penetrates deep into the stone materials and decreases water absorption. Then it becomes possible to protect stone materials against absorbing water, discoloration by moisture from the backside, efflorescence, and dirt.

There are two kinds: AD-White - Granite
AD-Super - Marble



ABOUT US

TOUEI INC.

Founded in 1955, TOUEI Inc. is the one and only company in Japan specializing in tools and supplies for the stone industry.

We handle almost 15,000 items and we deal with more than 400 makers in Japan.

Our aim is to contribute towards the development of the stone industry by introducing quality items made in Japan that embody fine technologies.

You can see a catalogue of our items and other information such as how to use on our website.

We will be happy to receive your orders.

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