

# ***Diamond Rabin***

*Accurate, Durable,  
Applicable to Tungsten Carbide*

**NEW**



## **Diamond Rabin**

Grain size; from #60 to #10000

## **Mounted Point Shape A**

Grain size; from #60 to #10000

Custom-made is available.

***For the finishing of carbides / difficult-to-cut materials !***

We can produce the most suitable grinding stone for your equipment.

Contact us for  
desired shapes.



# Epoch making grinding stone with DIAMOND produced with the Daiwa Rabin technology!

**With Diamond Rabin,  
you can reduce or shorten the working processes.  
The finishing will be much finer and brilliant.**

Diamond Rabin is made with an optimal combination of Daiwa Rabin's excellent rubber elasticity and diamond abrasive grains.

It can be used for a wide range of workpieces including ceramics, silicon wafers, Tungsten Carbides, cermet, carbide tools, stainless steel, various hard-to-grind materials and quartz glasses.



## Advantages of the product

- ✓ **No need to worry about heat which is generated by high-speed grinding and cutting.**
- ✓ **Residual stress and heat damages are greatly reduced, while preventing micro cracks.**
- ✓ **Grinding fluid is not necessary. Both "dry and wet" grinding can be used.**
- ✓ **A dedicated dresser is not needed for truing and dressing.**
- ✓ **Cost reduction is possible thanks to the long dress interval.**

## Applicable materials

Ceramics, silicon wafers, Tungsten Carbides, cermet, carbide tools, stainless steel, various hard-to-grind materials, quartz glasses, etc.

## Material type

Based on OX66 rubber composition, we will propose the best material to fit the workpiece, polishing level and grinding details.

## Custom-made is available according to the customer's needs.

In addition to types (Mounted Point, Wheel type, etc.), various shapes of custom-made grinding stone such as wheel type with metal shaft, cup type and other types are available to best suit the workpieces and equipment to be used with.

### ■ Partial examples (sizes and shapes) of custom-made products

Mounted Point		
Size (mm)	Maximum allowable rotation speed	Grain size
(outer diameter / length / shaft diameter)	(rpm)	
2-5-3	80,000	320,600,1000,3000
4-13-3	30,000	320,600,1000,3000
5-15-3	30,000	320,600,1000,3000
6-17-3	30,000	320,600,1000,3000
8-20-3	30,000	320,600,1000,3000
10-20-3	30,000	320,600,1000,3000

from #60 to #10000



### ■ Precautions for using the rubber grinding stone safely and correctly

**Elasticity of rubber greatly differs from general elasticity. It deforms according to the load and the amount of deformation is large. It is very dangerous if used in the same manner as general grinding stones and cutting tools.**

• Make sure to observe the maximum allowable rotation speed for use. • Attach the whetstone to the grinder or other device correctly. • Before starting work, check the external appearance of the grinding stone for cracks, ruptures or chips. Rotate it safely and slowly to see if there is any vibration or abnormality. • Do not apply load quickly because the rubber has elasticity. • Some sparks may be generated on the dust. Install a shielding plate or dust protection equipment and provide adequate ventilation. • During work, wear protective equipment such as dust masks, safety glasses, protective gloves and safety shoes. • Store the product in a well-ventilated, cool and dark place. Avoiding direct sunlight, ultraviolet rays, radioactive rays, ozone, high temperature and high humidity. • When subdividing grinding stones, show the maximum allowable rotation speed and hand over the safety instructions so that the worker fully understands it before use.

※ The color of the product on this leaflet may slightly differ from the actual ones. Design, specification, appearance etc. of the product may be changed without prior announcement.

**For custom-made products, please feel free to contact the following.**

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