

September, 2025

Dear Valued Partners,

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Subject: Release of New Product

Solid Diamond Point ~Suitable Sharpness for Polishing / Cutting High Hardness Materials with Long Life~

We are pleased to announce the release of our new product, the **Solid Diamond Point**, specifically designed for precision work using handpieces. The product will be available starting Wednesday, **October 1, 2025**.

This product uses a special manufacturing process to incorporate a high density of diamond abrasive grains, providing superior cutting performance and durability compared to standard grinding tools.

The Solid Diamond Point excels in grinding high-hardness materials, such as ceramics and tungsten carbide, ensuring smooth and efficient operation. Its exceptional wear resistance minimizes performance degradation, maintaining consistent, high-quality processing over time.

Not only does this product reduce processing time and improve work efficiency, but it also performs exceptionally across a wide range of applications—from precision polishing to high-load grinding.

Available in two grit sizes, #120 and #220, the Solid Diamond Point is offered in 12 variations (6 types per grit size), with different sizes and shapes to suit various applications. You can easily select the ideal type for your specific needs.



<Release Date>

Wednesday, October 1, 2025

【Contact Us】

MINITOR CO., LTD.

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— Solid Diamond Point —

■ Product Overview

Solid Diamond Point – A New Standard for Hard Materials

The Solid Diamond Point is the ideal solution for grinding and polishing hard-to-cut materials such as hardened steel, tungsten carbide, ceramics and glass—where conventional tools often fall short.

With a special manufacturing process that densely packs diamond abrasive grains, it achieves both exceptional sharpness and long service life. Stable cutting performance with minimal wear and deformation ensures consistent results in precision applications.

It's ideal for use in industries like mold manufacturing, automotive parts, medical devices, ceramic components, and cold forging dies—offering powerful grinding along with a clean surface finish.

Available in two grit sizes (#120 and #220) and 12 variations in shape and size, this versatile lineup supports a wide range of applications, from fine finishing to heavy grinding.

■ Product Characteristics

- Outstanding Sharpness and High Grinding Power -

With a high-density concentration of diamond abrasive grains, it delivers exceptional cutting performance, smoothly cutting through high-hardness materials such as tungsten carbide and ceramics.

- Minimal Shape Deformation for Stable Grinding -

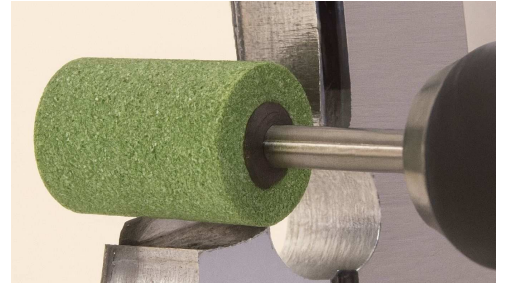
The shape remains intact even with prolonged use, ensuring consistent and uniform grinding. It maintains high precision and delivers a flawless finish.

- Exceptional Durability for Long Life -

Compared to conventional grinding tools and electroplated points, it shows significantly less wear, reducing the need for frequent replacements. This makes it a highly cost-effective choice.

- Compatible with a Wide Range of Materials and Applications -

Suitable for various materials such as hardened steel, tungsten carbide, ceramics and glass. Ideal for mold making, medical device components, automotive parts, as well as deburring and chamfering of precision components.



■ Product Lineup (Shank Diameter $\phi 3 \times 30$ mm / Single-unit sales)

Product CD	Dimension	Grit Size	Max. Allowable Rotation Speed	Shape	Shape Type
AD4171	Outer Diameter of Grinding Part $\phi 4 \times 12$ TL 42	# 120	100,000 r.p.m	A	
AD4172	Outer Diameter of Grinding Part $\phi 6 \times 12$ TL 42	# 120	70,000 r.p.m	B	
AD4173	Outer Diameter of Grinding Part $\phi 8 \times 12$ TL 42	# 120	60,000 r.p.m	C	
AD4174	Outer Diameter of Grinding Part $\phi 10 \times 12$ TL 42	# 120	40,000 r.p.m	D	
AD4175	Outer Diameter of Grinding Part $\phi 13 \times 16$ TL 46	# 120	40,000 r.p.m	E	
AD4176	Outer Diameter of Grinding Part $\phi 6 \times 11$ TL 41	# 120	60,000 r.p.m	F	
AD4181	Outer Diameter of Grinding Part $\phi 4 \times 12$ TL 42	# 220	100,000 r.p.m	A	
AD4182	Outer Diameter of Grinding Part $\phi 6 \times 12$ TL 42	# 220	70,000 r.p.m	B	
AD4183	Outer Diameter of Grinding Part $\phi 8 \times 12$ TL 42	# 220	60,000 r.p.m	C	
AD4184	Outer Diameter of Grinding Part $\phi 10 \times 12$ TL 42	# 220	40,000 r.p.m	D	
AD4185	Outer Diameter of Grinding Part $\phi 13 \times 16$ TL 46	# 220	40,000 r.p.m	E	
AD4186	Outer Diameter of Grinding Part $\phi 6 \times 11$ TL 41	# 220	60,000 r.p.m	F	