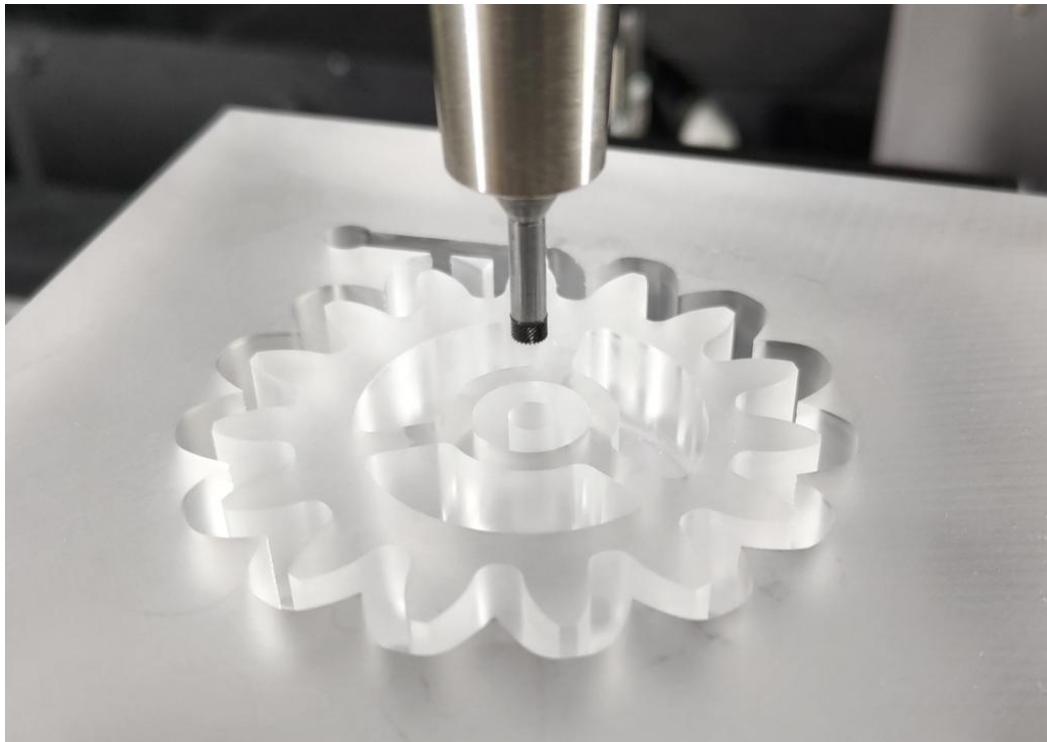


PCD Multi Edges®

PCD Multi-Flute End Mills for
Hard & Brittle Materials

PCD Multi Edges



Product Features

- Long Life & High Precision with PCD Cutting Edges
- High-Efficiency Multi-Flute Design Even for Small Diameters
- High-Speed Machining Performance Ideal for Hard and Brittle Materials





Product Overview

Our PCD multi-flute end mills ($\phi 1$ – $\phi 3$) are engineered for high-precision and long tool life in machining hard and brittle materials such as SiC and other superhard materials. By combining durability and accuracy, these tools deliver exceptional efficiency for advanced machining applications.

A key feature is the high flute count—up to 25 flutes on a 3 mm diameter—providing superior performance even in small sizes.



Product Features

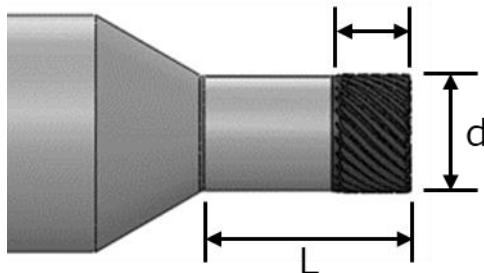
◇ Standard Specifications



Type	PME-D1-S	PME-D2-S	PME-D3-S
Tool diameter d mm	1	2	3
Number of flutes n	7	15	25
Neck length L mm	3	5	5

High-Efficiency Machining for Brittle Materials

Cutting length 1.8 mm



※Please contact us for special specifications such as dimensional changes.



Machining Examples

Quartz Glass –

Profile Machining (Workpiece Thickness: 10 mm)

◆ Tool

PCD Multi-Flute End Mill $\phi 3$, Neck Length: 12 mm

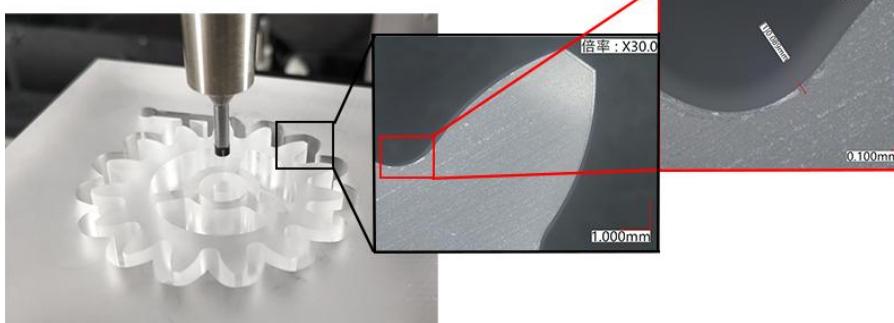
◆ Machining Conditions

Spindle Speed : 2,000 rpm

Feed Rate : 500 mm/min

Cutting Depth : 0.08 mm per pass

Manufacturing process available on YouTube



Excellent Machining Quality
Chipping : 0.1–0.2 mm

Applications:
Helical Milling for
Quartz Glass
SiC Ceramics
Cemented Carbide

※Custom specifications, such as dimensional modifications, are available upon request. Please contact us for details.