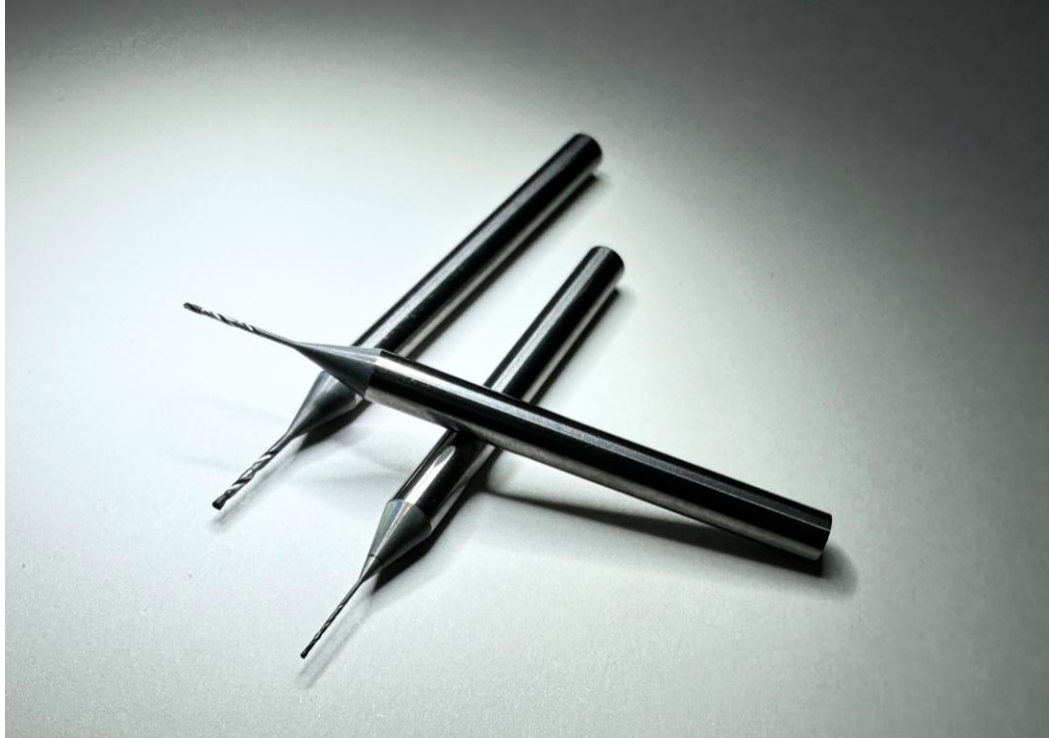


Micro PCD Drill

For Hard and Brittle Materials
: Small Diameter.

Micro PCD Drill



Product Features

- **Achieves long tool life with unique tip geometry**
Designed to withstand extended use and contribute to cost reduction.
- **Suppresses chipping for high-precision machining**
Ensures stable hole quality even in brittle materials.
- **Ideal for small-diameter machining of hard and brittle materials**
Compatible with difficult-to-machine materials such as SiC and cemented carbide.

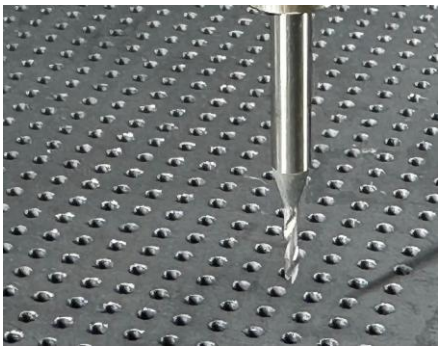
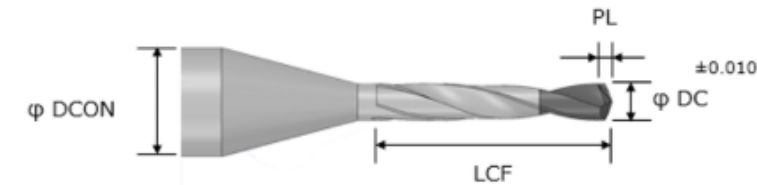


Asahi Diamond

Product Overview

“Small-Diameter PCD Drill for Hard Materials
– High Precision, Long Life.”

Product Features



◇ Standard Specifications

| Cutting edge diameter (φ) DC | Flute Length (mm) LCF | Overall Length (mm) | Tip (mm) PL | Shank Diameter (φ) DCON |
|------------------------------|-----------------------|---------------------|-------------|-------------------------|
| 0.3 | 6.5 | 38 | 0.12 | 3.0 |
| 0.4 | 6.5 | 38 | 0.18 | 3.0 |
| 0.5 | 6.5 | 38 | 0.23 | 3.0 |
| 0.6 | 6.5 | 38 | 0.27 | 3.0 |
| 0.7 | 6.5 | 38 | 0.29 | 3.0 |
| 0.8 | 6.5 | 38 | 0.34 | 3.0 |
| 0.9 | 6.5 | 38 | 0.40 | 3.0 |
| 1.0 | 6.5 | 38 | 0.49 | 3.0 |
| 1.1 | 6.5 | 38 | 0.56 | 3.0 |
| 1.2 | 6.5 | 38 | 0.60 | 3.0 |
| 1.3 | 6.5 | 38 | 0.66 | 3.0 |
| 1.4 | 6.5 | 38 | 0.73 | 3.0 |
| 1.5 | 6.5 | 38 | 0.80 | 3.0 |

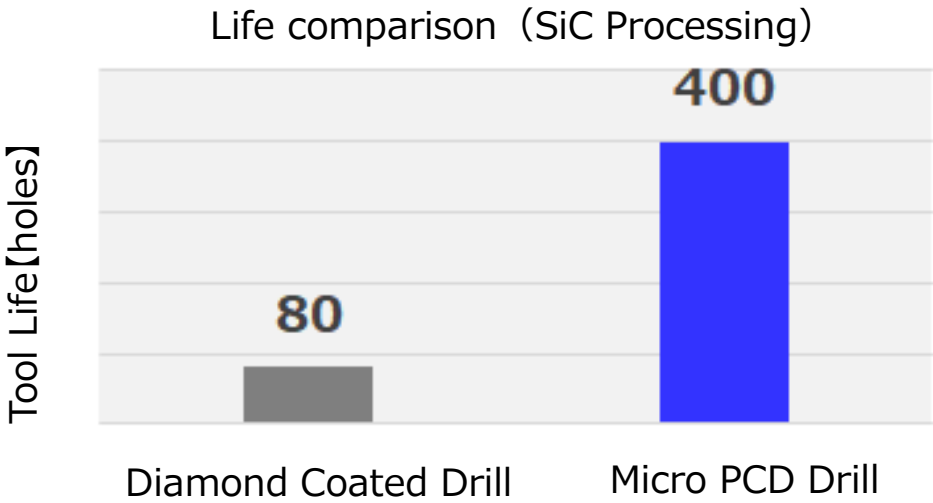


Machining Examples

◇ Performance Introduction "φ0.45 Machining Data"
 Target workpieces: SiC ceramics, quartz glass, etc.

| Materials | SiC | Quartz glass |
|------------|-----|--------------|
| 1st hole | | |
| In process | | |

◇ Lifespan Comparison (SiC Processing)



◇ Check out our latest Micro PCD Drill machining video on YouTube!

