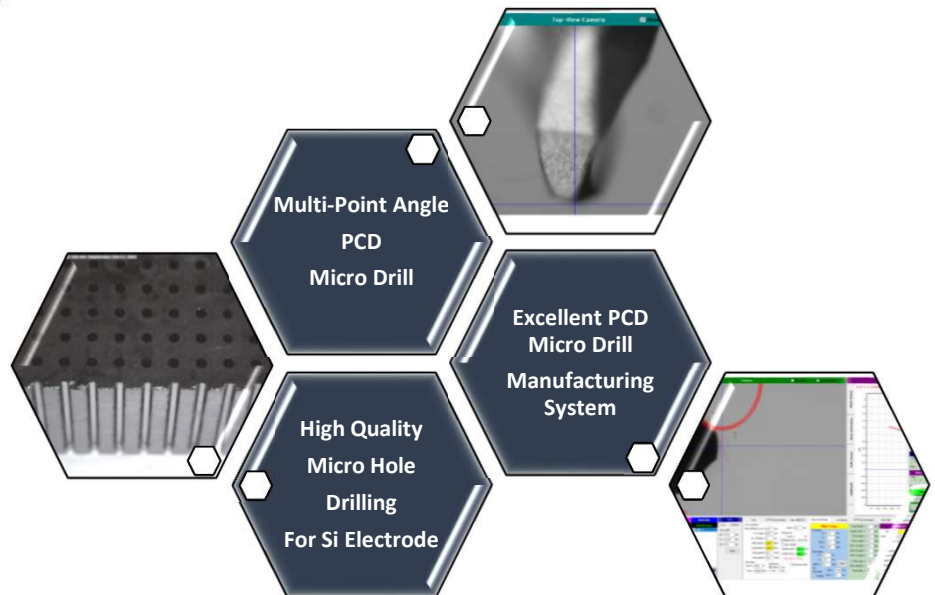


Micro Drill with advanced materials, PCD, to achieve high quality micro hole drilling

PCD Micro Drill

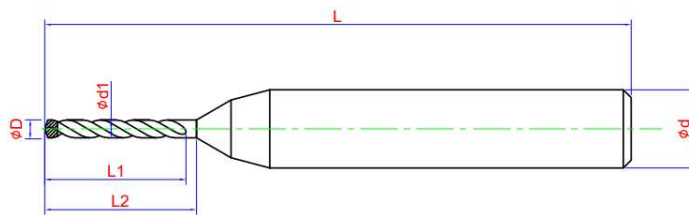
 **TechMAC Co., Ltd.**
Advanced Precision System

PCD PCBN

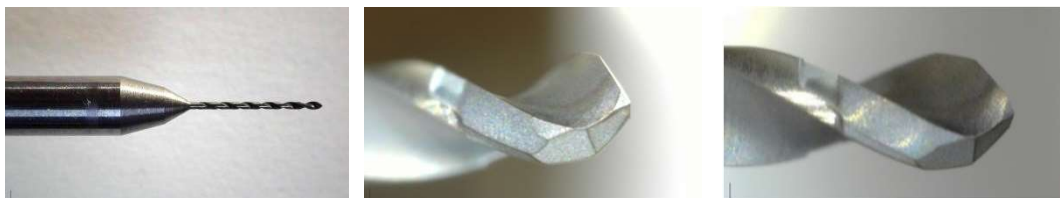


Features

- Designed to fit into drill for machining of brittle materials such as Si Wafer
- Drill Geometries with multi point angle and web thinning
- High Edge Sharpness
- Long Tool Life
- Excellent Surface Finish
- Respond to different Drill dimensions



Model	D	d	L	L1	L2
D035L07	0.35	3.175	38.1	6.8	7.0
D042L07	0.42	3.175	38.1	6.8	7.0
D042L12	0.42	3.175	38.1	11.7	12.0
D045L07	0.45	3.175	38.1	6.8	7.0
D072L14	0.72	3.175	38.5	14.0	14.2
D072L20	0.72	3.175	38.5	19.7	20.0
D075L14	0.75	3.175	38.5	14.0	14.2



Applications

- Micro Hole Drilling of Si Wafer Electrode for Etching Process.
- Micro Hole Drilling for non-ferrous materials



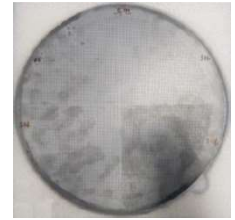
PCD Micro Drill

Test

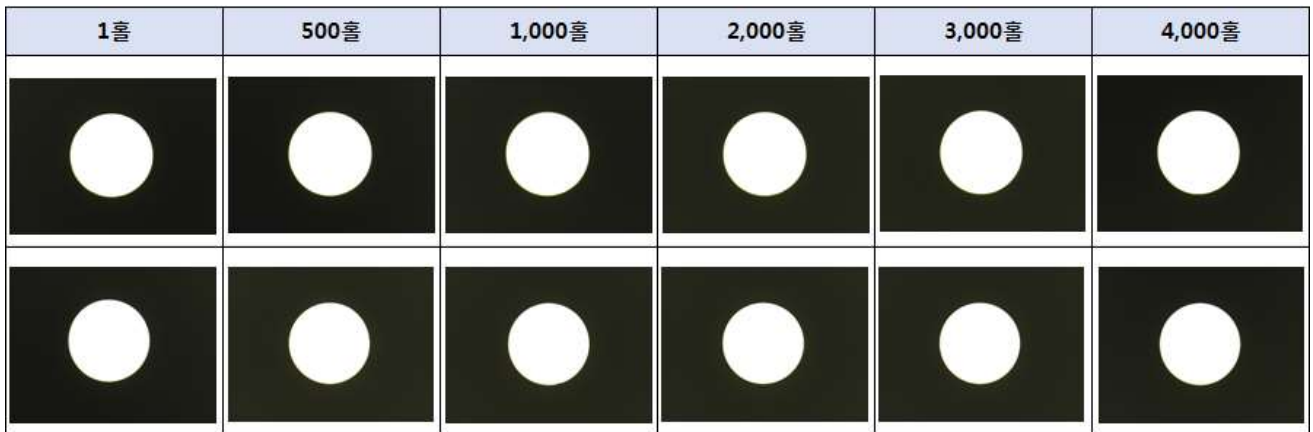
Tool : $\Phi 0.45$ PCD Drill

Workpiece : Si Wafer (Thickness : 10.6)

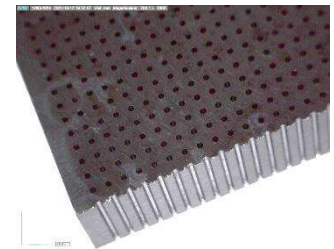
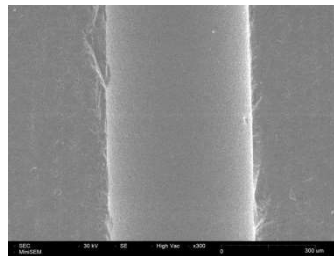
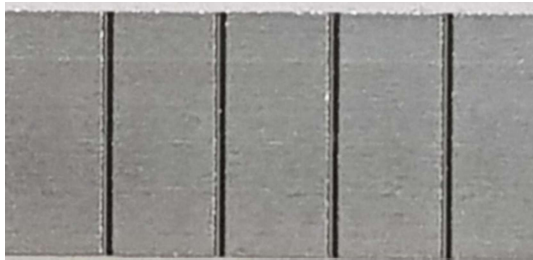
Processing Method : Simultaneous front and rear drilling up to 4000 holes



- Hole Status (front & back)

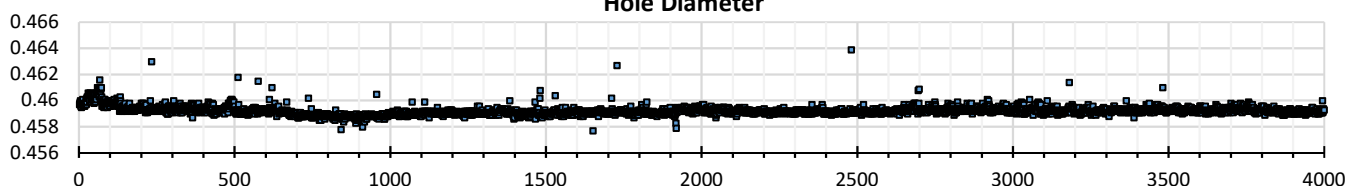


- Cross-sectional View

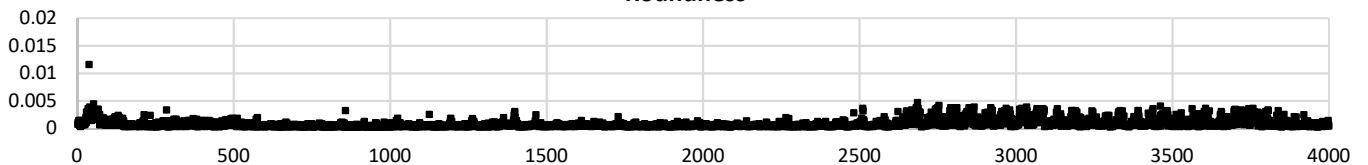


- Measuring Data

Hole Diameter



Roundness



Concentricity

