zy-superhardtools.com

## MCD Straight Flute Mill

C D

ZY

## 6.00 \*H4.0\*D6\* L50 e.g.



| Ф1.00 *H2.0*D6* L50  | Ф1.50 | *H3.0*D6* L50  |
|----------------------|-------|----------------|
| Ф2.00 *H3.0*D6* L50  | Ф3.00 | *H3.0*D6* L50  |
| Ф4.00 *H3.0*D6* L50  | Ф5.00 | *H3.0*D6* L50  |
| Ф6.00 *H3.0*D6* L50  | Ф7.00 | *H3.0*D6* L50  |
| Ф8.00 *H3.0*D6* L50  | Ф10.0 | *H3.0*D10* L50 |
| Ф6.00 *H4.0*D6* L50  | Ф12.0 | *H3.0*D12* L50 |
| Ф14.0 *H3.0*D12* L50 | Ф20.0 | *H3.0*D12* L50 |
| Ф30.0 *Н3.0*D12* L50 | Ф50.0 | *H3.0*D12* L50 |
| Φ4.00 *H4.0*D6* L50  | Ф5.00 | *H4.0*D6* L50  |
| Ф8.00*H4.0*D8* L50   | Ф10.0 | *H4.0*D10* L50 |
| Ф10.0 *H5.0*D10* L50 | Ф10.0 | *H10*D10* L50  |
| Ф12.0*H10*D12* L50   | Ф6.00 | *H5.0*D6* L50  |
| Φ6.00 *H6.0*D6* L50  | Ф4.00 | *H8.0*D10* L50 |
| Ф8.00 *H8.0*D8* L50  | Ф10.0 | *H10*D10* L50  |
|                      |       |                |



MCD Ball End Mill

超硬材料加工系列

## MCD cutting tools & inserts series

In ultra-precision machining, the main factors to ensure the quality of the machined surface in addition to high-precision machine tools, ultra-stable processing environment, high-quality tools are also a very important aspect. MCD single crystal tool has high hardness, good wear resistance, high strength, good thermal conductivity, low friction coefficient with non-ferrous metals, good adhesion resistance and excellent corrosion resistance and chemical stability, and can also grind out sharp blades, is considered to be the ideal ultra-precision cutting tool material, especially in the field of machining, ultra-precision machining has been widely used







MCD chamfering cutter

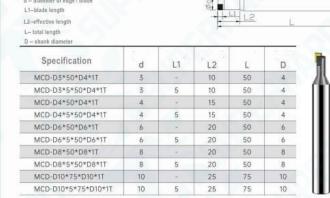


face milling, side milling

The use of MCD single crystal tools

- 1. The single crystal diamond tool is very sharp, and it is easy to produce a collapse edge when receiving an impact, so it is used under stable and shock-less working conditions as far as possible, and the amount of chips should not exceed 0.05mm.
- 2. Higher cutting speed can reduce the cutting force, while low-speed cutting will increase the cutting force, so the cutting speed should not be too low when using single crystal tool processing.
- 3. The use of a single crystal diamond tool in a static state should be avoided in contact with the workpiece or other hard objects to prevent damage to the cutting edge of the tool

## MCD welding highlight milling cutter series



Note: can be customized to the figure non-standard



MCD batch tool / acrylic polishing cutter



| L  | Н  | h | W | α    |
|----|----|---|---|------|
| 32 | 12 | 6 | 6 | 110° |
| 32 | 12 | 6 | 6 | 120° |
| 32 | 12 | 6 | 6 | 130° |
| 32 | 12 | 6 | 6 | 135° |
| 32 | 12 | 6 | 6 | 150° |
|    |    |   |   |      |







Model of MCD inserts DCGT / DCMW CCGT / VCGT APKT / WNMG TPGH / TNMN

Note: can be customized to the figure non-standard

Due to the physical characteristics of single crystal diamond itself, the chip is not easy to stick to the knife and produce chip accumulation, the processing surface quality is good, and the surface roughness can reach Rz-0 when processing non-ferrous metals. 05µm, single crystal diamond can also effectively process ferrous metal materials, such as copper, aluminum and other non-ferrous

metals and their alloys, ceramics, un-sintered MCD chamfered milling tool cemented carbide, various fiber and particle

reinforced composite materials, plastics, rubber, graphite, glass and various wear-resistant wood

(and when solid wood and plywood, MDF and other composite materials).

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