

Turning tools
Milling tools
Drilling tools
Monocrystalline tool series



Natural single crystal diamond
tool series



Tool expert
by your side

ZHENGZUAN launched [VAJRA]

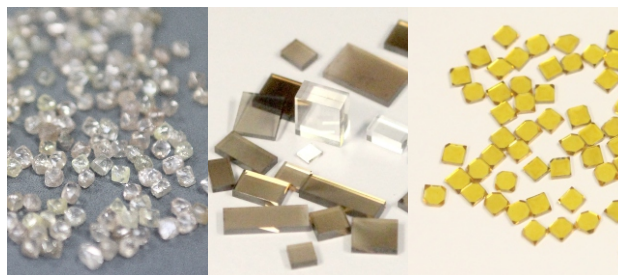
Natural diamond and single crystal
Super precision machining tool series

 **VAJRA**
ND & MCD Cutting Tools



Single crystal diamond is considered to be the most ideal tool material for ultra-precision machining, and they have extremely high hardness and wear resistance. Low friction coefficient and high elastic modulus; high thermal conductivity, low thermal expansion coefficient and low affinity with non-ferrous metals.

Through continuous experiment and innovation, Zhengzuan has launched diversified "VAJRA" series single crystal diamond ultra precision tool, which are widely used for ultra precision turning, milling, drilling, and nano high polishing, surface processing. At the same time, the cutting tools can be developed and customized according to the processing demand of customers.



Turning tools

Standard inserts

The precision of cutting edge profile can reach 5 μm .
Sharper edge and longer life.

Adopt ISO international standard.

It mainly includes C-type, D-type, V-type and other series of standard inserts.

 **VAJRA**
Standard inserts



*Can be customized according to customer demand.

Turning tools

Standard tools and non-standard customized tools both have high precision size angle.

According to different angles of cutting edges and main deflection angle, this series of cutting tools can be used for general turning, profile turning, chamfer machining, etc.

 **VAJRA**
Turning tools

Welding type
Indexable type



*Can be customized according to customer demand.

Milling Tools

ND&MCD Milling tools

The sharp edge ensures the good quality machining surface.
More excellent wear resistance and longer life.
It is applied for side milling, groove milling, profile milling and spiral interpolation milling of precision parts.
Specification of diameter: $\phi 3 \sim \phi 20$



 **VAJRA**
Turning tools

*Can be customized according to customer demand.

Chamfer tools

Various chamfer angle; Different diameter specifications; Suitable for chamfering precision parts.

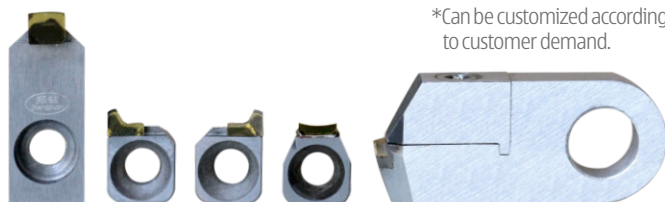


 **VAJRA**
Turning tools

*Can be customized according to customer demand.

Forming tools

The precision of cutting edge profile can reach $5\mu\text{m}$.
According to the forming size of the workpiece, the high precision shape can be finished by our precise cutting edge at one time.



 **VAJRA**
*Can be customized according to customer demand.

Drilling Tools

ND&MCD Drill

Universal drill;
The sharp edge ensures the good quality of the hole;
Smooth cutting;
Diameter range: $\phi 2.5 \sim \phi 5$

 **VAJRA**
Drilling Tools

*Can be customized according to customer demand.



Single diamond tools series

Nature Diamond Dresser

Single / multiple natural diamond finishing tools.
Suitable for all kinds of grinding wheels which are used for different machines such as cylindrical grinding machines, centerless grinding machines, surface grinding machines.
Stable quality, diverse specifications and convenient using.
Longer life and higher durability.



Other tools

Support / Probe, Etc.

It has the advantage of high hardness and good wear resistance.





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