



Tool Holders

Tool Holders

Precision Tool Holders — Engineered for 5-Axis Machining Excellence

In high-precision 5-axis machining centers, the tool holder is the critical interface between the spindle and the cutting tool—its rigidity and accuracy directly influence machining stability, repeatability, and final part quality.



Mongtec provides a comprehensive range of high-performance tool holders, available in various interface standards, clamping systems, and configurations tailored to complex machining requirements.

With precision tolerances within 0.003 mm, our tool holders are engineered to meet the demands of next-generation machining—delivering superior process reliability, surface finish, and overall productivity.



Choosing the right tool holder is key to improving machining accuracy and stability, enabling high-performance machining with greater efficiency.

Type	Standard	Key Features	Applications
BT/BBT	BT30/BT40/BT50	Commonly used on Japanese machines; offers high rigidity.	Mold and precision parts machining
HSK	HSK-A/B/C/D/E/F	Suitable for high-speed machining; features dual-face contact.	Aerospace and high-speed machining
SK	SK30/SK40/SK50	Higher precision than BT; follows German standards.	Precision mold and heavy-duty cutting
CAT	CAT30/CAT40/CAT50	North American standard; similar to BT.	General machining and aerospace
PSC	PSC32/PSC40/PSC50/PSC63	Versatile design with quick-change capability; high rigidity; ideal for heavy-duty cutting.	Mill-turn applications, aerospace, heavy cutting, and high-precision machining

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Choose the right clamping method to enhance machining performance and ensure high precision and rigidity.

Clamping Method	Key Features	Applicable Scope
Collet Chuck (ER Collet)	Flexible clamping, wide applicability	General machining (drilling, milling, tapping)
Pull-Back Clamping	Strong clamping force, simple structure	General milling and drilling operations
Heat Shrink Chuck	High rigidity, high precision	High-speed machining, precision mold making
Hydraulic Chuck	High precision, easy tool change	Precision machining, medical devices
Power Milling Chuck	Extremely strong clamping force, suitable for heavy cutting	Heavy cutting, high torque machining
Dual-Contact Clamping (HSK Clamp)	High-speed stability, high rigidity	5-axis machining, spindle industry
Quick-Change Tool Holder (PSC)	High rigidity, quick tool change	Aerospace, turn-mill composite machining, heavy cutting

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The following are partial product specifications. For other specifications or inquiries, please feel free to contact us.



Extension Tool Holder



Pull-Back Tool Holder



Heat Shrink Tool Holder



Heat Shrink Tool Holder –
Through Coolant
(Face Discharge)



ER Collet Tool Holder



Adjustable Precision Flange-
Type Tool Holder



Morse Taper Tool Holder



Threaded Morse Taper Tool
Holder



Threaded-End Tool Holder –
Straight Shank Type



Threaded-End Tool Holder –
Taper Shank Type



Side-Lock Tool Holder



Side-Lock Tool Holder –
Through Coolant
(Face Discharge)



Arbor Milling Tool Holder



Arbor Milling Tool Holder –
Inch Size



Hydraulic Tool Holder



Boring Tool Holder

Tool holder cleaning device

Tool Holder Cleaning Device

The Tool Holder Cleaning Device restores spindle and tool holder precision by effectively removing dirt and rust from the tool holder taper. This improves contact accuracy and connection stability between the spindle and tool holder, resulting in enhanced machining precision, extended tool and spindle life, and reduced risk of spindle damage.

It is an essential auxiliary device for maintaining a high-precision machining environment.

Compatible Tool Holder Types: BT, SK, CAT, HSK

Product Accessories



Before Use



After Use

