HK-5Z180 *Compact 5-Axis Jewelry Engraving & Milling Machine (Auto Tool Change)*

- Automatic tool change
- 5-axis multi-angle engraving
- RTCP tool-tip tracking
- Recovery rate up to99.8~99.9%
- Compact design, space-saving



HK-5Z180 *is a compact 5-axis CNC engraving and milling machine designed for professional gold and silver jewelry processing*

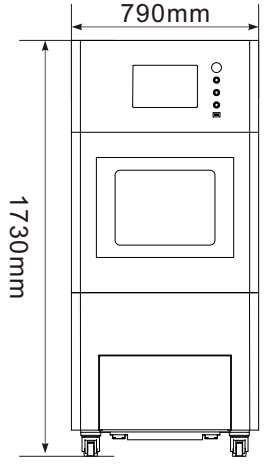
- Applications: Ideal for engraving and milling gold, platinum, K-gold, silver, and other precious metals. Suitable for rings, bangles, pendants, beads, and 3D pieces.
- Powerful 5-Axis Machining: Supports complex surface engraving, dotting, patterning, drilling, rainbow finish, polishing, matte textures, and 3D/5G effects—perfect for both modern styles and traditional techniques.
- Fully Enclosed Work Chamber: Designed for precious metal processing with minimal loss—recovery rate up to 99.8%–99.9%.
- Auto Tool Changer: Holds 5 tools; no manual changes needed, improving efficiency.
- Easy to Use: No programming required. Built-in toolpath files for various designs—just select and run.
- RTCP Tool-Tip Tracking: Ensures high-precision, flexible performance on complex surfaces and fine structures.
- Compact Design: Small footprint, perfect for gold shops, jewelry factories, studios,and other use.

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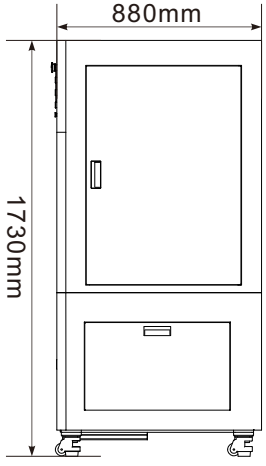
Machine Specifications

Model	HK-5Z180	
Engraving Range	XYZ Travel	230*260*180mm
	Working Diameter / Height	100/100mm
Precision	X/Y/Z Axis Positioning Accuracy	0.01/0.01/0.01mm
	A/C Axis Positioning Accuracy	0.01mm
	X/Y/Z Axis Repeatability	0.01/0.01/0.01mm
	A/C Axis Repeatability	0.01mm
Rotation Angle	A/C Axis Rotation Angle	-30+120°/360°
Table Load Capacity	10kg	
Spindle	Max Spindle Speed	60000rpm/min
	Spindle Power	2.4KW
	Spindle	ATC Servo Spindle
	Spindle Cooling Method	Water-cooled / Oil-cooled
Cutting Tool	Tool Magazine Capacity	1 2 Tools (Linear Type)
	Tool Holder Type	T11
Ball Screw / Linear Guide Rail	C5 Ground Ball Screw / HIWIN or PMI H-class Linear Guides (Taiwan)	
Drive System	Bus Servo System (Absolute Encoder)	
Operating Voltage	220V/50Hz	
Enclosure Type	Fully Enclosed, Waterproof & Dustproof Cover	
Air Pressure	0.55MPa	
Dimensions	790*880*1730mm	
Weight	about480kg	
Material	Cast Iron + Stainless Steel + Sheet Metal	
Total Power	4.8KW	
Software	Precision Carving 9.5	
System	5-Axis CNC System (with RTCP Tool Tip Tracking)	

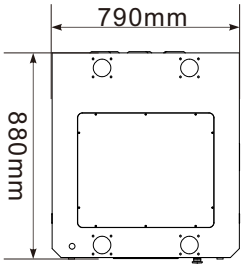
Machine Dimensions



Front



Side



Top

HK-5Z180 Compact 5-Axis Jewelry Engraving & Milling Machine

Sample Processing Display Some cases are patented by clients and for reference only














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