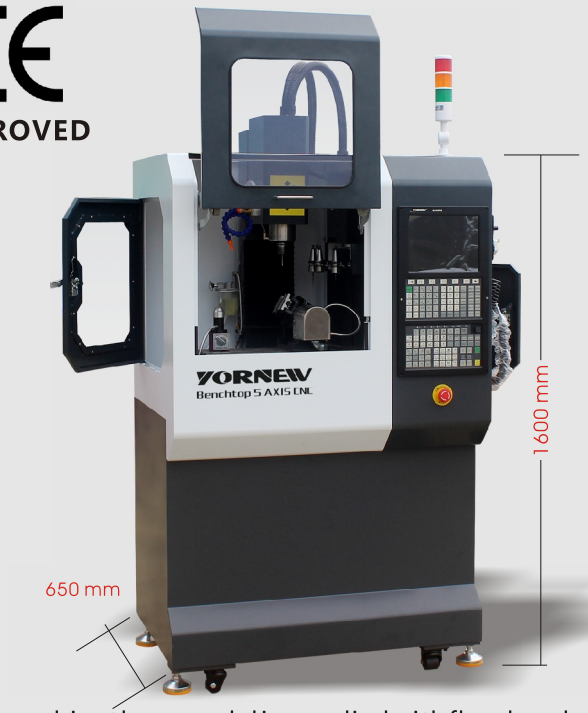
Small CNC Milling Machine (Product No: MX220)

CE APPROVED



NB: The cabinet base model is supplied with flood coolant system.

Optional desktop type: without workpiece water cooling.

The brand-new MX220 is a powerful mini CNC machine. It is affordable, user-friendly, extremely stable and requires minimal maintenance. It runs on single-phase power, eliminating the need for costly industrial three-phase power supply.Equipped with a high-performance 5-axis milling CNC controller, it supports Rotation Tool Center Point (RTCP) and multi-language interface display. MPG handwheel is included as standard.

Built with high-quality cast materials, high-precision linear guides and ball screws. The machine comes as a standard 3-axis CNC milling machine. 4th axis or 5th axis (with harmonic reducer) are available as options,XYZBC axes come with AC servo motors. It features a fully enclosed, high-visibility safety interlocking guard.

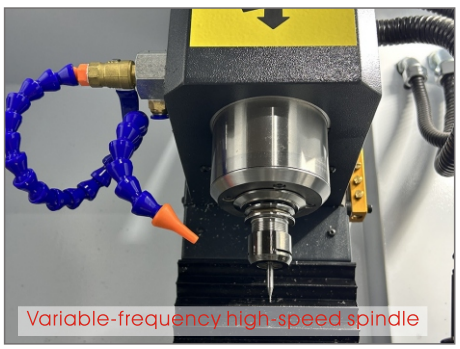
The MX220 adopts a stronger, high-speed spindle rated at 24000 rpm for heavy-duty cutting and router machining. Optional upgrades include automatic tool change system (ATC), flood coolant system with industrial cabinet base, and automatic tool setter.

Programmable spindle speeds and feedrates make the MX220 ideal for machining a variety of resistant materials, including free-cutting alloys, aluminium, steel, plastic and acrylic. It is suitable for education & training at all levels, as well as DIY workshops.

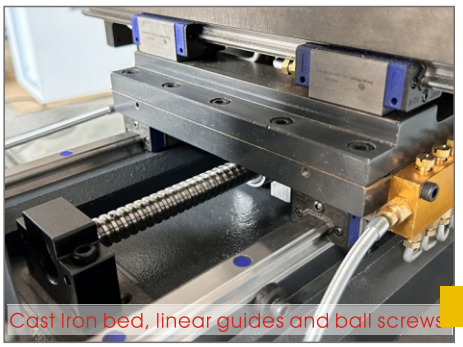
CNC controller

Servo Motor and Servo Drive

6-tool ATC system & automatic tool setter


Variable-frequency high-speed spindle

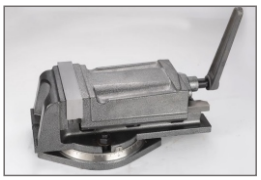
Flood coolant system


Cast iron bed, linear guides and ball screws

Optional Accessories

Edge Finder

Clamping Kit


Quick Vice

Carbide End Mill

HSS End Mill

HSS Ball-End Mill

Z Axis Tool Setter

4th Axis and Tail Stock

5 Axis Rotary Table

As Standard With

T nut	M10x2
Inner Hexagon Wrench	S=3
Inner Hexagon Wrench	S=4
Inner Hexagon Wrench	S=5
Inner Hexagon Wrench	S=6
Two-head Wrench	S=10/10
Two-head Wrench	S=14/17
Two-head Wrench	S=18/21
Plastic Oiler	1 Piece
Hook Wrench Head	S=30
Turn-angle flat pliers	80mm
Milling cutter	Φ4 + φ8
Twist drill	φ3.3
Mat	φ10*30*2
Bolt	M10*25
Machine Manual	1 Piece
Controller Manual	1 Piece
U Disk	1 Piece
Side Door Key	2 Pieces
Test Report	1 Piece

Technical Parameters

1	Positioning accuracy	0.015mm	
2	Repeatability accuracy	0.01mm	
3	X axis travel	230mm	
4	Y axis travel	130mm	
5	Z axis travel	230mm	
6	Options 5th axis	Backlash	Zero Backlash
		Max Speed 4th axis	30/R.P.M
		Max Speed 5th axis	30/R.P.M
		Accuracy 4th axis	40 arc-sec
		Accuracy 5th axis	40 arc-sec
		Repeatability 4th axis	20 arc-sec
		Repeatability 5th axis	20 arc-sec
		Homing	B axis
		Limits	+C, -C
		Travel	B axis:-30° to +125°, C axis: ±infinity
		B axis Output Flange Diameter	100mm
7	Tool DIA. range	2-12mm	
8	Control system	KY1000MC CNC Controller	
9	Motor Type	AC servor motor	
10	MPG hand wheel	5 axis	
11	Spindle motor	2.2kw	
12	Spindle speed	24000r/min	
13	XYZ axis max moving speed	8000mm/min	
14	Options automatic tool change system	6 Tools / ISO20 spindle taper	
15	Guide rail	High-precision linear guide	
16	Table size	460*130mm	
17	Max. Load	30kg	
18	Table structure	Full cast iron	
19	Power	220VAC / 110VAC	
20	Weight(NW/GW)	180kg/220kg	
21	Overall dimension	930×650×920mm	
22	Packing size	970*850*1400mm	