

4 Axis CNC Milling Machine - QualiMill[™] 300A



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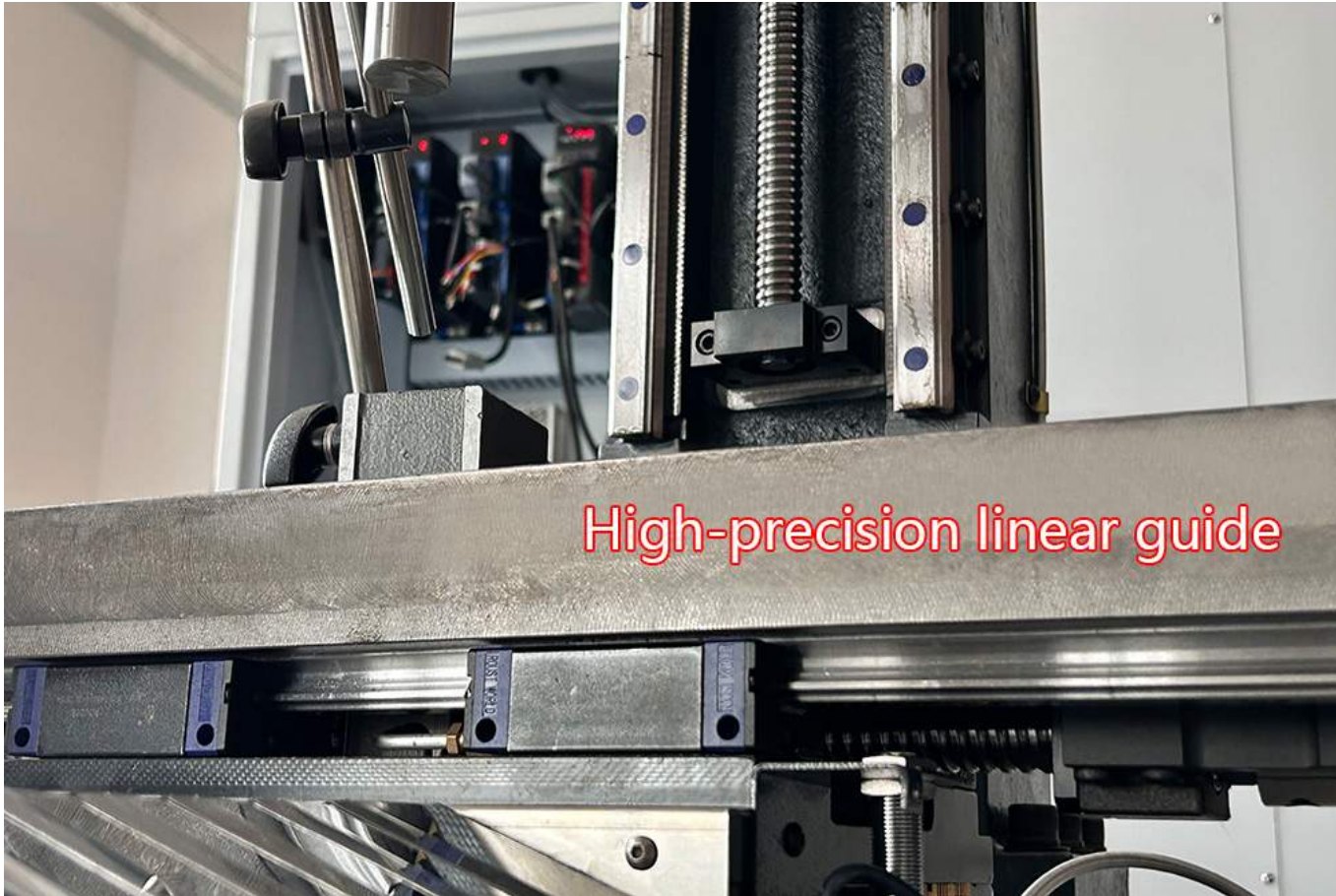
APPLICATIONS

4 Axis CNC Milling Machine - QualiMill™ 300A

4 Axis CNC Milling Machine - QualiMill™ 300A ensures precise and efficient operation. The standard specifications include an MPG handwheel for easy control, along with an integrated sink and nozzles for effective cooling. Featuring a high-precision linear guide and carefully selected high-quality casting materials, the machine offers a more compact and durable structure. An automatic lubrication system protects the rails, extending their lifespan. Equipped with a high-quality 3-axis servo motor, it also includes USB and RS232 ports for seamless connectivity. The pre-installed 4-axis fast interface enhances versatility, making it an excellent choice for DIY enthusiasts, hobby users, and CNC education and training.







High-precision linear guide



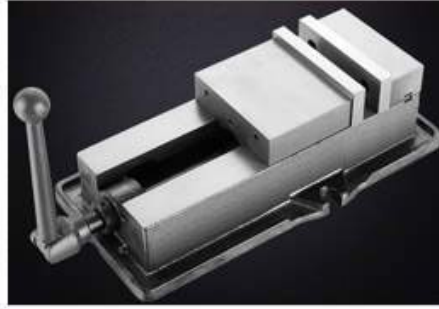
Optional Accessories



Antimagnetic edge finder



Clamping kit



Quick vice



Carbide end mill 5 pieces set



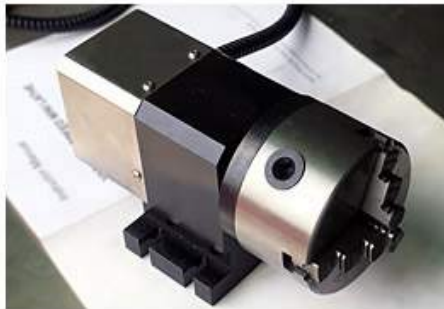
Fluts Hss end mill 4-16mm



Z axis tool setter



BT30 Tapping handle and chuck(3,4,5,6,8mm)



The 4th axis



Tailstock for the 4th axis

4 Axis CNC Milling Machine - QualiMill™ 300A Features

- Designed and manufactured with a strong structural foundation, ensuring adaptability for future enhancements.
- High-performance 4-axis CNC milling controller, KY1000MC CNC Controller, with optional Siemens 808D or GSK980MDc controllers.
- The KY1000MC supports five feed axes (including the C-axis), two analog spindles, 1ms high-speed interpolation, and 0.1µm control precision—delivering superior machining efficiency, accuracy, and surface quality.
- Configurable axis names and types (X, Y, Z, 4th, and 5th) with a 1ms interpolation period and precision of 1µm or 0.1µm. Maximum speed reaches 60m/min (up to 24m/min at 0.1µm precision). The system integrates a servo spindle for continuous positioning, rigid tapping, and precise threading. Built-in multi-PLC programs allow selectable program execution. Additional features include statement macro command programming, parameterized macro program calls, metric/inch programming, automatic tool setting, chamfering, and tool life management. The interface supports English and other languages, with USB connectivity for file operations, system configuration, and software updates.
- Standard configuration includes an MPG handwheel.
- The MPG handwheel enables precise electronic control of each axis.
- High-precision linear guides and carefully selected premium casting materials ensure a compact and robust structure.
- Equipped with a high-accuracy double-nut ball screw, precision bearings, and couplings. An automatic oil lubrication system enhances accuracy and extends the machine's lifespan.
- Supports 220VAC or 110VAC single-phase AC power supply.
- High-quality safety electrical components with fast plug-in connections.
- Pre-installed fast interface for the fourth axis.
- Integrated coolant sink and nozzles.
- Ideal for industries such as technology development, advertising design, fine arts, vocational training, CNC education, and DIY projects.

TECHNICAL SPECIFICATIONS

4 Axis CNC Milling Machine - QualiMill™ 300A Technical Specifications

X axis travel	310mm
Y axis travel	180mm
Z axis travel	290mm
A axis Rotate	360°(optional)
Table size	550x180mm
Spindle taper	BT30
Tool DIA. range	4-16mm
T slot (amount*width)	3x12mm
Positioning accuracy	0.02mm
Repeatability accuracy	0.01mm
Control system	KY1000MC CNC Controller
MPG hand wheel	4 axis
Spindle motor	1.5KW(2.2KW optional)
Spindle speed	100-3500r/min(24000r/min optional)
Max. moving speed	8000mm/min
Max. feeding speed	4000mm/min
Power of X/Y/Z	Servo motor 750W
Transmission	Ball screw
Max. load	40kg

Table structure	Full cast iron
Guide rail	High-precision linear guide
Voltage	230/120V (110V is also available)
Weight(NW/GW)	600/650kg
Overall dimension	1360 x 990 x 1800 mm
Packing size	1400 x 1050 x 2000 mm



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