



PHOTO: Tabletop CNC Milling Machine
(image for reference only, actual product may differ)

SYSTEM OVERVIEW

The **Tabletop CNC Milling Machine** is a compact precision machining system designed for educational, laboratory and prototyping applications. The machine features a rigid aluminum extrusion mold structure combined with linear motion (LM) guides, ball screws and easy servo motors to ensure stable and accurate machining performance.

The system operates using Linux CNC control architecture and is capable of stable standalone operation without the need for a separate external PC. A protective external steel structure and safety enclosure are provided for safe operation in laboratory environments.

The machine supports compatibility with Autodesk Fusion 360 post-processor and is supplied with all required operational software. The system is designed for precision milling and engraving applications with high spindle speed capability, manual tool change provision and T-slot working table for versatile workholding.

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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TECHNICAL SPECIFICATIONS

Sl. No.	Item Name	Technical Specifications	Qty
1	CNC Milling Machine Structure	Tabletop CNC milling machine with aluminum extrusion mold structure, LM guide and ball screw mechanism for precision machining; equipped with easy servo motors and external steel safety enclosure with protective cover.	1
2	Control System & Software	Linux CNC based control system with stable standalone operation; all necessary operating programs supplied; compatible post-processor for Autodesk Fusion 360; program interface in English; system operable on Windows 10 environment.	1
3	Machining Capacity	Maximum machining size 200 × 400 × 100 mm or higher; T-slot worktable provided; machining accuracy 0.1 mm; maximum machining speed 3000 mm/min or higher.	1
4	Spindle System	Air-cooled spindle with speed 24,000 rpm or higher; spindle motor rating 1 kW or higher; manual tool change provision; ER12 collet system.	1
5	Installation Footprint	Required installation area minimum 400 × 600 × 500 mm.	1
6	Machine Weight	Total machine weight within 80 kg.	1
7	Power Supply	Input power 220 V AC; spindle power consumption approximately 1 kW.	1
8	Accessories – End Mill Bits	End mill bits: 6 mm, 5 mm, 4 mm — 10 pieces each.	1 set
9	Accessories – Collets	End mill collets 6 mm or higher capacity.	5 pcs
10	Accessories – Engraving Bits	Engraving V-bits 30° type.	5 pcs
11	Installation & Commissioning	Installation at customer-designated location within specified period; include all accessories required for operation.	1 job
12	Training	User training on operation and maintenance after installation.	1 job
13	Documentation	English-language maintenance and user manual; all labels, display menus and buttons in English.	1 set

RANGE OF EXPERIMENTS

- Basic CNC milling and engraving operations
- Tool path generation using CAD/CAM software (Fusion 360 compatible)
- CNC part programming and execution
- Precision machining using servo-based motion system
- T-slot workholding and job setup practices
- Spindle speed and feed rate optimization
- Machining of aluminum and soft materials

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- Engraving and contour machining
- Tool change and collet handling procedures
- Preventive maintenance and machine calibration basics

FEATURES

- Compact tabletop CNC milling machine with rigid aluminum extrusion frame
- Precision motion system with LM guides and ball screws
- Easy servo motor based drive system for accurate positioning
- Linux CNC control system with stable standalone operation
- Compatible with Autodesk Fusion 360 post-processor
- External steel safety enclosure with protective cover
- High-speed air-cooled spindle with ER collet system
- Supplied with essential cutting tools and accessories
- English-language interface, labels and manuals
- Suitable for educational laboratories and skill development training

SERVICES REQUIRED

- Standard **230 V AC** power supply
- Proper earthing/grounding required

➤ **Note: All specifications are subject to revision without notice. Depicted images are for reference only and may not represent the actual product.**

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