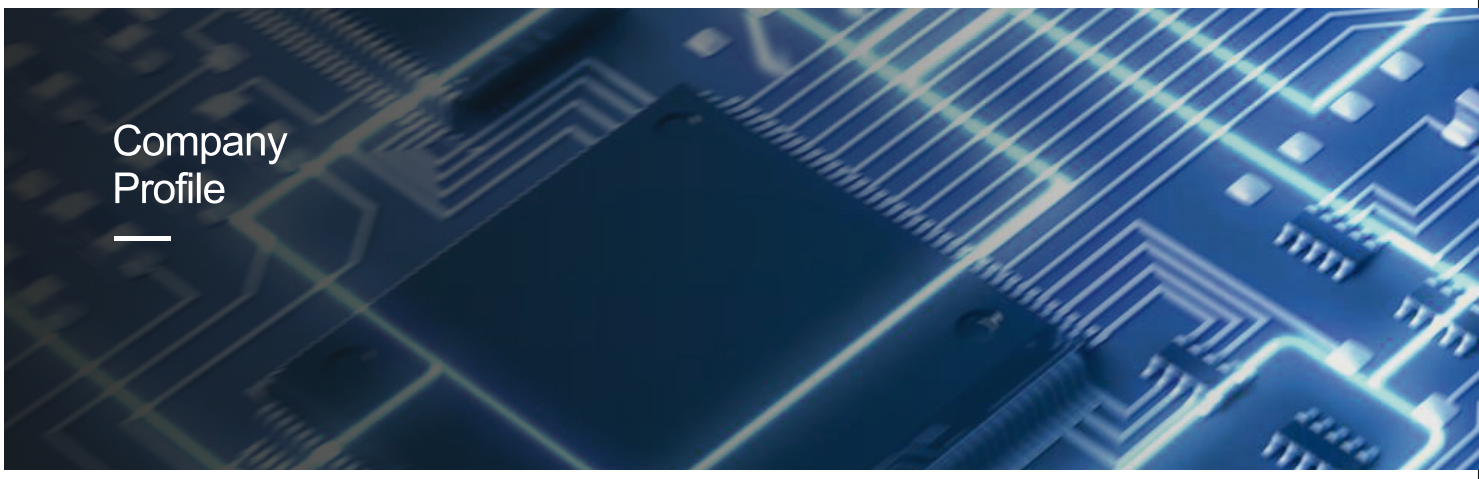
FINGER CNC

B SERIES MILLING MACHINE CONTROLLER

Open Designs Infinite Possibilities

Guangzhou Finger Technology Co., Ltd



Company Profile

Guangzhou Finger Technology Co., Ltd. is committed to creating high-performance open CNC systems, making automation development simpler. As one of China's leading high-performance controller manufacturers, Finger Technology focuses on customer needs and continually pushes the boundaries of technological innovation. The company has built a comprehensive automation ecosystem with key technologies, offering differentiated solutions and convenient services to clients. Finger strives to help customers gain value from its products, accelerate growth, and generate substantial returns.

Finger Technology is fundamentally driven by technology, originating from CNC but not confined to it. Firmly rooted in CNC technology, the company actively explores motion controllers, edge computing controllers, Open CNC development platforms, CAD/CAM technologies, machine vision technologies, and industrial Internet of Things (IoT) technologies. Its industry-leading Open CNC development platform makes the customized development of machine equipment electrical controls more cost-effective and simpler. With seven core technologies embedded (motion control, HMI, PLC, machine vision, CAD/CAM, IoT, and 3D simulation), Finger Technology provides customers with the best one-stop solutions.

Leveraging its outstanding open product architecture and diverse technology integration capabilities, Finger Technology has accumulated extensive product experience and a solid customer base in industries such as lathes, milling machines, grinding machines, spring machines, tool machines, woodworking machinery, winding machines, pipe bending machines, and 3C electronics, continuously achieving excellence.

Devotion to excellence, innovation with craftsmanship, pursuit of precision, symbiosis and win-win, and integrity are the core business philosophy and values upheld by Finger Technology since its establishment. We have always remained true to our original intention, striving forward with determination, and continuously working towards becoming the world’ s leading open CNC system brand, ensuring that Chinese manufacturing and Chinese services resonate globally.

Company Vision

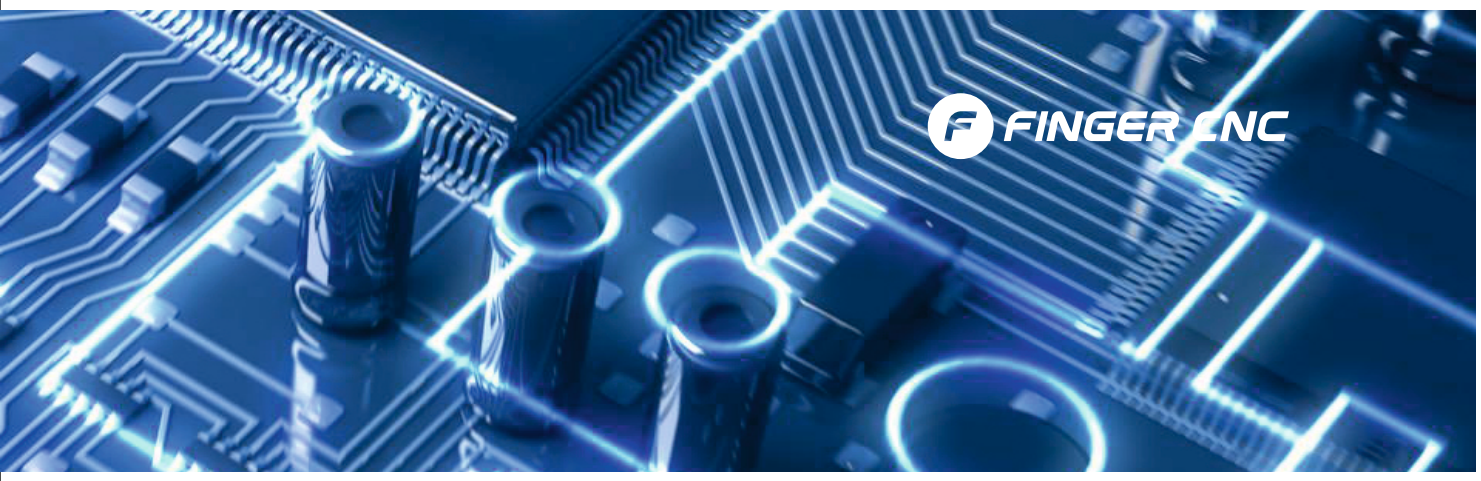
Make automation development simpler.

Company Mission

Build more open, convenient, and inclusive controller products. Strive to help customers gain support from products, grow rapidly, and create value. Become the world's leading brand in open CNC systems.

Core Values

Practical Integrity | Stay True to the Original Intention | Break Tradition, Embrace Newness | Pursue Excellence | Progress Together



DIRECTORY

High-Performance CNC Controller Architecture

More Advanced

- Integrated heavyweight or lightweight CAD/CAM graphical plugins
- All-round open CNC customization design concept
- Integrated script-based open machine vision system
- MECHATROLINK-III / EtherCAT Bus Support

More Powerful

- RT-Linux Embedded Control System Platform
- Fully Compiled Execution Module
- Configurable IoT Development Platform
- Remote Assistance for Fault Diagnosis and Upgrades

More Efficient

- Platform-based Design Concept
- 64-Bit High-Speed High-Precision Profile Control
- PREFETCH 20000 blocks/second
- RDialog-based Assistant Program Editing

More Versatile

- Support for SSI Absolute Encoders
- Universal + CNC-Specific HMI Functionality
- Hybrid Control of Bus Axes and Universal Axes
- Modular Software Design

More Standardized

- Brand new Macro scripting IDE
- Based on the standard HMI scripting language of JavaScript
- Based on the ModBus and OPC-UA standard peripheral communication modules
- Compliance with PLC Open IEC61131-3 International Standard

More Comprehensive

- Maximum 16-channel combination technology
- Online instruction assistanc
- Comprehensive automation solutions
- High-speed channel synchronization technology

Milling Machine CNC Series Products

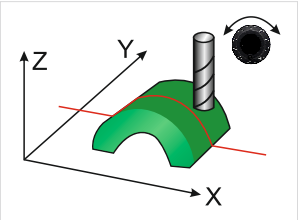
	400M Series	600M Series
Product Benefits		
Installation Method	Horizontal/Vertical Installation	
Product Positioning	Standard Milling Machine CNC	Functional Standard Milling Machine CNC
Applicable Machine Models	XYZ+Spindle XYZ+4th-Axis+ Spindle XYZ+4th-Axis+ Spindle+Tool magazine	XYZ+ Spindle+Tool magazine XYZ+4th-Axis+Spindle+Tool magazine XYZ+4th-Axis+5th-Axis + Spindle+Tool magazine)
Common Configurations	1-Channel, 3-Axis,4-Axis, 5-Axis, 6-Axis	1-Channel, 4-Axis, 5-Axis, 6-Axis, 7-Axis
Maximum Expansion	Expandable up to 32 I/O Points	Expandable up to 64 I/O Points
Standard Accessories	Standard 5-meter Wiring, Standard 16-input/16-output I/O Module(I/O Module Part Number: ESC-IO16)	
Common Models	400MA1-H、400MA2-H(V)、400MA3-H(V)、400MA4-V	600MB2-H(V)、600MB3-H(V)、600MB4-V

	600M Series	800M Series
Product Benefits		
Installation Method	Horizontal/Vertical Installation	
Product Positioning	Dual-Spindle Milling Machine CNC, Milling Machine with Robotic Arm	Multi-Channel Milling Machine CNC, Five-Axis Machining Center
Applicable Machine Models	(XYZ+ Spindle+Tool magazine) *2 , (XYZ+4th-Axis+Spindle+Tool magazine) *2 (XYZ+4th-Axis+5th-Axis + Spindle+Tool magazine) *2 XYZ+4th-Axis+5th-Axis + Spindle+Tool magazine+ Robotic Arm	(XYZ+4th-Axis+5th-Axis + Spindle+Tool magazine) *1, Contain RTCP (XYZ+4th-Axis+5th-Axis + Spindle+Tool magazine) *2, Contain RTCP (XYZ+4th-Axis+5th-Axis + Spindle+Tool magazine) *3, Optional RTCP (XYZ+4th-Axis+5th-Axis + Spindle+Tool magazine) *4, Optional RTCP
Common Configurations	2-Channel, 14-Axis	Single-Channel 6-Axis/7-Axis,2-Channel 12-Axis/14-Axis,3-Channel 18-Axis/21-Axis,4-Channel 24-Axis/28-Axis
Maximum Expansion	Expandable up to 64 I/O Points	Expandable up to 128 I/O Points
Standard Accessories	Standard 5-meter Wiring, Standard 16-input/16-output I/O Module(I/O Module Part Number: ESC-IO16)	
Common Models	600MB2-H(V)、600MB3-H(V)、600MB4-V	800MC2-H(V)、800MC3-H(V)、800MC4-V

Special Features

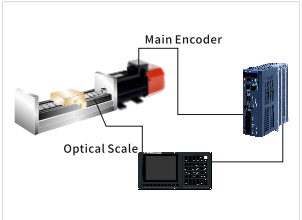
Handwheel Prediction Functionality

During the trial machining process, the handwheel can be used to control the speed and direction of the machine's operation by moving it forward or backward. The ability to move the machine in reverse effectively prevents collisions caused by programming errors.



Closed-Loop Control

Closed-Loop Control is achieved by integrating real-time compensation using feedback signals from motor encoders and linear scales. This compensation reduces the impact of mechanical backlash and ensures precise positioning accuracy at the machine's end point.

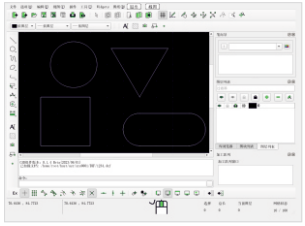


Diversified Tool Magazine Module

The controller can interface with various types of tool magazines, catering to different machining requirements. This significantly reduces machining time and improves machining efficiency.

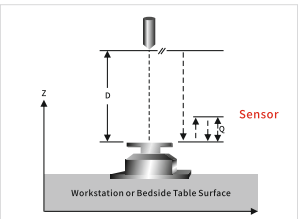
CAD Intelligent Drawing Module

The system allows for CAD graphic drawing, making the process quick and convenient with simple operations. Additionally, by interfacing with the CAM module, it can complete various machining tasks, thereby improving programming efficiency.



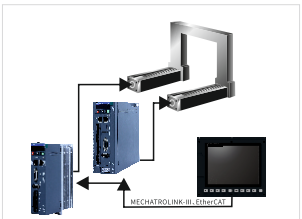
Automatic Tool Length Measurement

By utilizing the G31 function along with external sensors, automatic tool length measurement can be achieved. The measured data is then used to compensate for tool length through template program adjustment. With a high-frequency response speed of up to 20kHz, it provides an effective solution for high-speed detection applications, significantly reducing measurement errors caused by slow response speed and low repeatability accuracy.



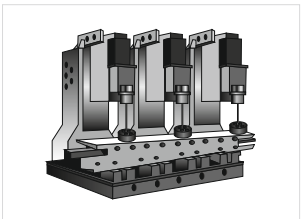
Gantry Synchronous Axis Control

Gantry synchronous axis functionality allows for simultaneous displacement of multiple pairs of feed axes without mechanical deviation. The system can quickly handle closed-loop control of synchronous axes and also supports absolute serial bus encoders such as SSI, which enhances the performance and efficiency of gantry synchronous control.



Multi-Spindle Tapping

The advanced-type controller supports up to 10 high-speed tapping modules, enabling the capability of multi-tasking on a single machine. With the same program, it is possible to specify the tapping spindle and combine tapping operations based on specific requirements, thereby enhancing production efficiency.

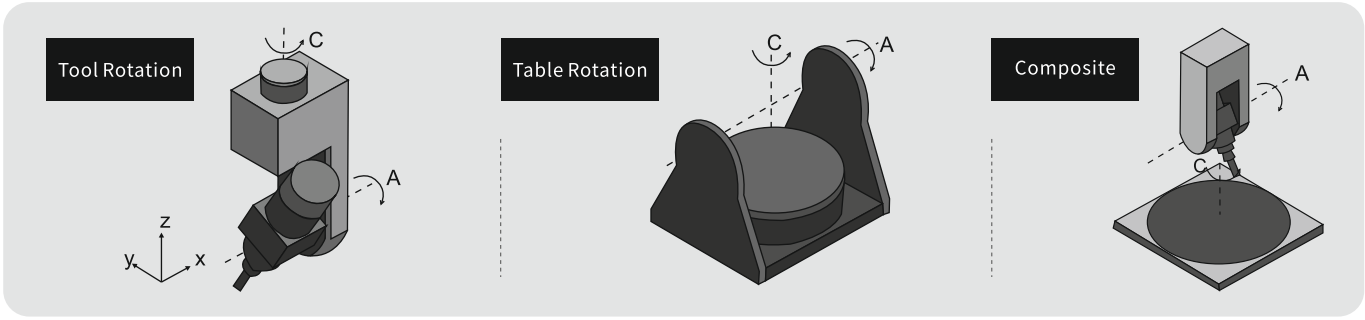


CAM Intelligent Programming Module

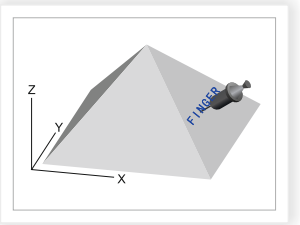
The system can be linked to the machine tool system through CAD graphics and enables interactive editing of the graphics using dialog-based tools. 2D graphics can be imported into the system, and after appropriate editing, the system generates corresponding G-codes for milling, slotting, drilling, and tapping operations.

Five-Axis
Simultaneous Machining

▶▶ Support for various types of five-axis compensation mechanisms

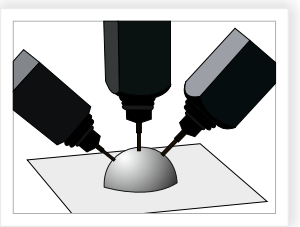


▶▶ Tilted Plane Machining



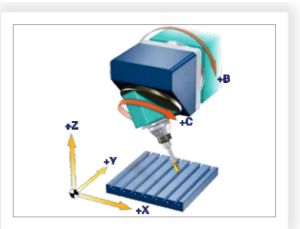
For addressing workpiece inclination caused by unevenness between the mold and the worktable, or for directly planning paths for machining on tilted planes. By following the design program for plane machining and setting the tilt angle as a parameter, tilted plane machining can be achieved. This facilitates the creation of CNC programs for machining on tilted planes or resolves the issue of incompatible machining programs due to machine assembly or tilted workpiece clamping.

▶▶ RTCP Tool Center Point Control - RTCP



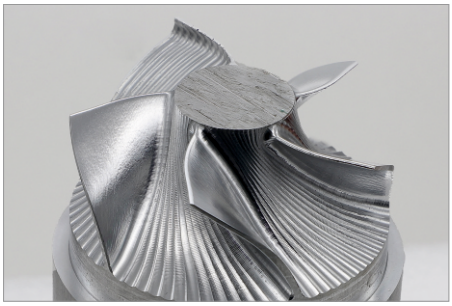
The controller provides three-dimensional tool length compensation, where the customer only needs to calculate the coordinates of the workpiece contour points in CAM software. The system will automatically calculate the tool center point position to ensure that the tool center point remains on the machining contour surface.

▶▶ Five-Axis Machine Automatic Measurement



1. In conjunction with a tool presetter, automatic measurement of tool length can be performed.
2. With a trigger-based probe, automatic measurement of rotation center and rotation vector can be achieved.
3. With the combination of five-axis RTCP functionality and rotation vector compensation, it effectively addresses the issue of inadequate machining accuracy caused by the inclination of the rotary axis.

▶▶ Product Showcase

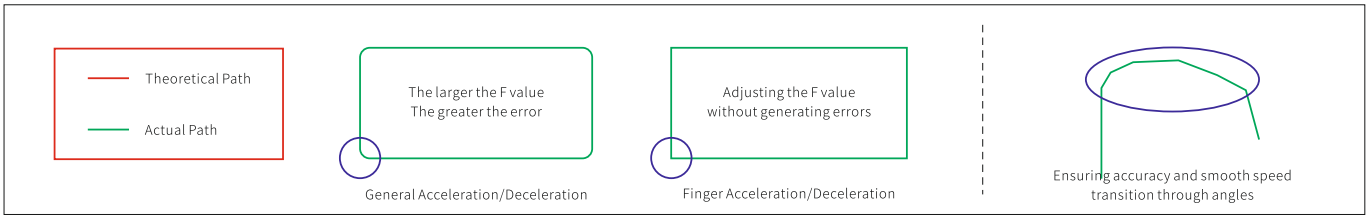


High-Speed High-Precision Motion Control

PRECISION | STABILITY | INTELLIGENT | ADVANCED

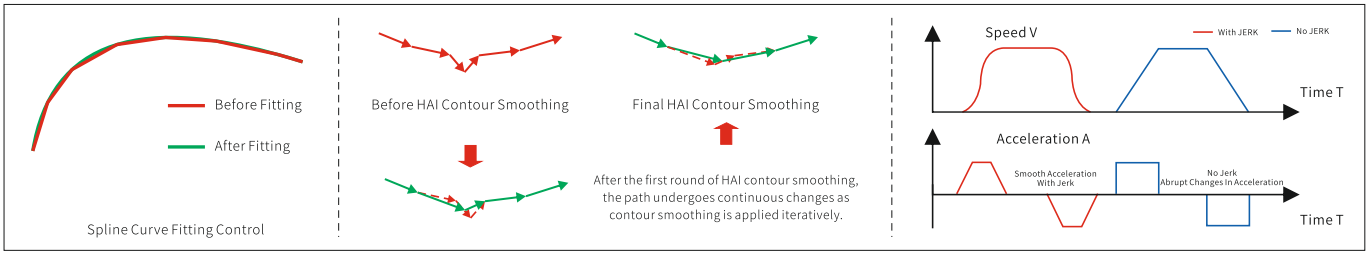
▶▶ Precise Angle Control

In interpolation motion, the system utilizes HLAT (High-Level Accuracy Tracking) velocity lookahead technology to implement lookahead-based velocity control for angles. By selecting the most suitable angular velocity, it ensures both accuracy and smooth speed characteristics, thereby reducing impact on the machine and minimizing disturbances.



▶▶ HAI (High-Accuracy Interpolation) Contour Smoothing

During the generation of NC files by CAM software, due to computational precision errors, there may be extremely small line segments. HAI contour smoothing automatically selects strategies based on the characteristics of the line segments, reorganizes the contour, and ensures compliance with interpolation requirements while maintaining precision.



▶▶ Intelligent Solution for Chatter, Overcut, and Fish-scale Marks

Due to factors such as machine tool assembly precision, thermal deformation, servo response, NC instructions, and others, one or several of these factors can lead to phenomena such as chatter, overcut, and fish-scale marks. Through a combination of system and driver calculations, it is possible to obtain optimal control currents to mitigate these effects and avoid machining defects.

▶▶ NURBS curve fitting

During small line segment contour control, automatically perform NURBS spline fitting on eligible small line segments to enhance interpolation speed and workpiece surface quality.

▶ Smooth Acceleration with Constant JERK

In acceleration and deceleration control, applying constant JERK control helps minimize the impact on the machine caused by acceleration and deceleration, playing a key role in improving the surface quality of the workpiece during machining.

Application Examples

▶ Standard milling machine solution

01

※ 400M High-Speed High-Precision Controller

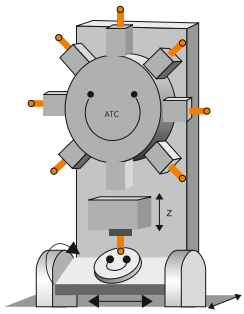
※ Finger CNC All-Bus Servo Spindle

※ Finger CNC 24-Bit High-Performance Servo Drive

※ High-Speed Spindle Positioning,High-Speed Rigid Tapping

※ Online Monitoring and Tuning of Tapping Process

▶ Functional Milling Machine Solution



02

※ 600M High-Speed High-Precision Controller

※ Highly Integrated Peripheral Servos

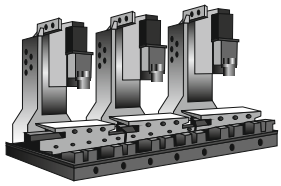
※ Support speed control full closed loop, bus control full closed loop

※ Compatibility with Fourth and Fifth Axis DD Motors

※ High-Speed High-Precision Functionality

※ Axial Optical Scale, Tilted Plane Functionality

▶Five-axis Machining Center, Multi-Channel Multi-spindle Solutions



03

※ 800M High-Speed High-Precision Controller

※ RTCP Functionality, Support expansion to 4 channels and 4 groups of RTCP

※ Independent Programming, Processing, and Debugging for Each Channel

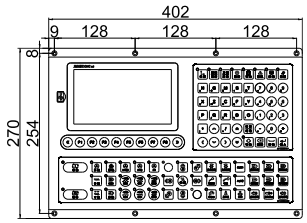
※ Channel Interchangeability Function

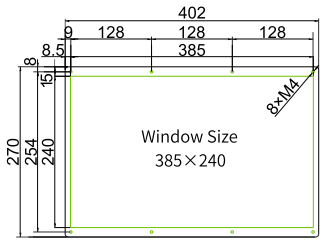
※ High-Speed High-Precision Functionality

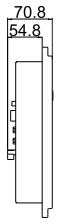
Appearance Display
Installation Dimensions

▶7-inch Milling Machine Controller

Product Model: 400MA1-H (7-inch Horizontal Type)

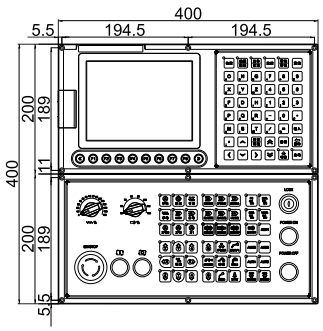


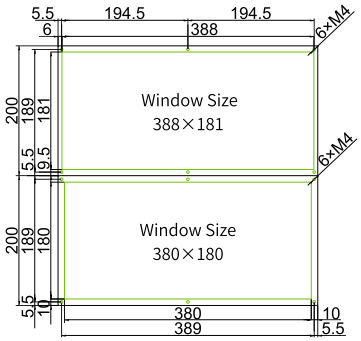


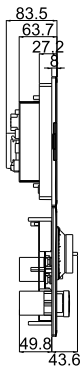


▶8-inch Milling Machine Controller

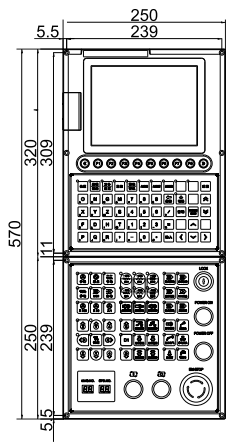
Product Model: 400MA2-H/600MB2-H/800MC2-H (8-inch Horizontal Type)

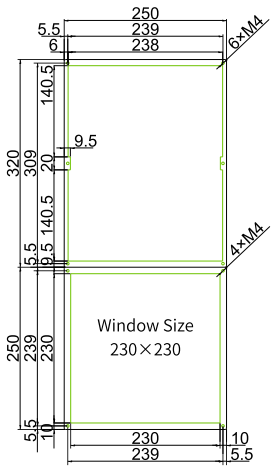


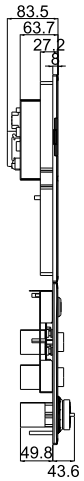




Product Model: 400MA2-V/600MB2-V/800MC2-V (8-inch Horizontal Type)

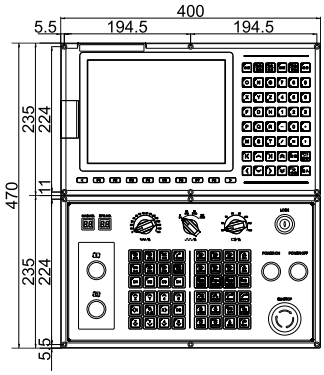


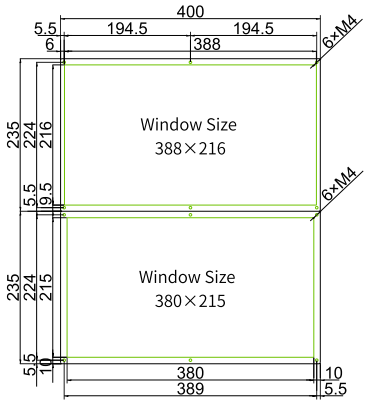


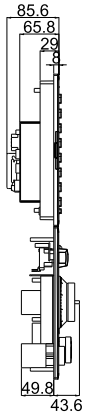


▶10.4-inch Milling Machine Controller

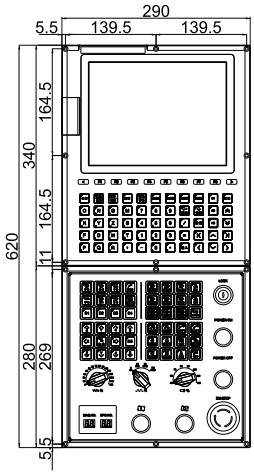
Product Model: 400MA3-H/600MB3-H/800MC3-H (10.4-inch Horizontal Type)

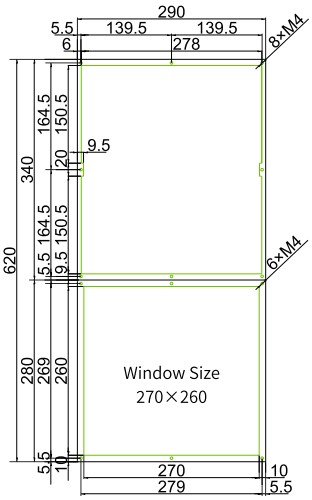


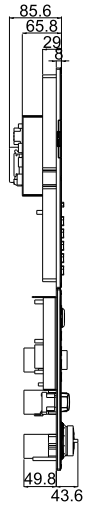




Product Model: 400MA3-V/600MB3-V/800MC3-V (10.4-inch Horizontal Type)

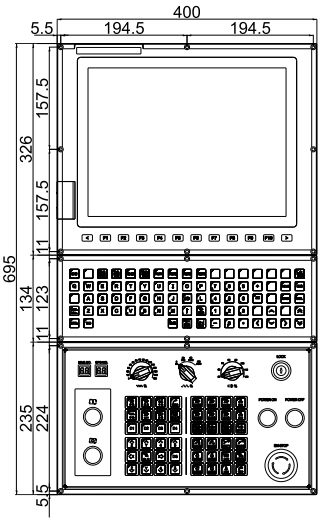


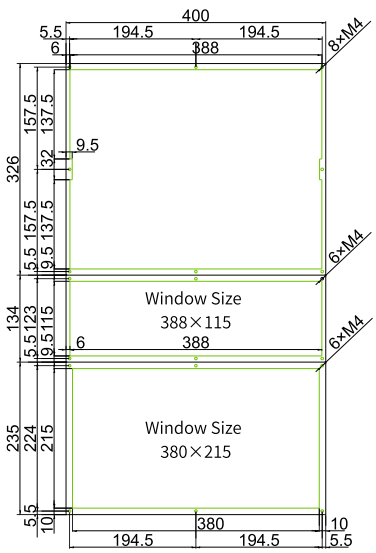


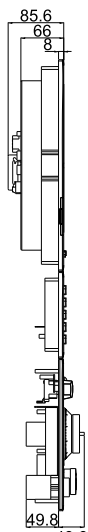


▶15-inch Milling Machine Controller

Product Model: 400MA4-V/600MB4-V/800MC4-V (15-inch Horizontal Type)







Product Naming Rules and Accessory Specifications

▶▶ Product Part Number

B 1	0x 2	–	T 3	X3 4	A 5	H 6	–	M 7	200 8	–	F0 9	A 10	A1 11	P0 12

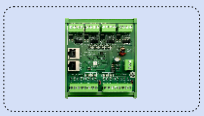
1	Product Series	B: B Series
2	Communication Method	00:NO 01:EtherCAT 02:Mechatrolink-III 05:Mobile EtherCAT Controller
3	Touch Control Indication	N: No Touch Control T: Resistive Touch Screen C: Capacitive Touch Screen
4	System Screen Size	X0: No Screen X1: 7-inch Screen X2: 8-inch Screen X3: 10.1-inch Screen X4: 10.4-inch Screen X5: 15-incah aScreen X6: 15.6-inch Screen X7: 17-inch Screen X8: 19-inch Screen X9: 21.5-inch Screen
5	System Style	A: A Series Plastic Panel B: A Series Metal Enclosure C: A Series Aluminum Alloy Panel A1: B Series Plastic Panel B1: B Series Metal Enclosure C1: B Series Aluminum Alloy Panel
6	System Button Style	A2: B Series Plastic Panel (Lathe-Mill New Faceplate) B2: B Series Iron Shell (Lathe-Mill New Faceplate) C2: B Series Aluminum Alloy Panel (Lathe-Mill New Faceplate) N: No Buttons H: Horizontal V: Vertical C: Iron Enclosure
7	Industry Code	T:Lathe M: Milling W: Woodworking SP: Spring Machine ST:Compact Lathe
8	Industry Subcode	T2: 200 Lathe M2: 200 Milling Machine SP1: Spring Machine ST4: Compact 400 Lathe
9	General Axis Quantity	F0: No General-Purpose Axis (ECAT) F1: … F2: Includes 2 General-Purpose Axes (MIII)
10	Number of Channels	A: 1-Channel B: 2-Channel C: 3-Channel D: 4-Channel E: 5-Channel F: 6-Channel G: 7-Channel H: 8-Channel L: 9-Channel J: 10-Channel K: 11-Channel Z: 26-Channel
11	Number of Axes	A1: 1-Axes A2: 2-Axes … B0: 10-Axes B1: 11-Axes C0: 20-Axes C1: 21-Axes M0: 120-Axes M1: 121-Axes … M8: 128-Axes …
12	Auxiliary Panel Information	P0: Without Auxiliary Panel P1: With Auxiliary Panel

▶Product Model

400 M A 1 - H

- [Product Specifications] H: Horizontal V: Vertical
- [Screen Size] 1: 7-inch 2: 8-inch 3: 10.4-inch 4: 15-inch
- [Function Type] A: Standard B: Enhanced C: Special
- [Industry Type] M: Milling Machine T: Lathe
- [Product Series] 400 Series 600 Series 800 Series

EtherCAT/16IN_16OUT/IO Module

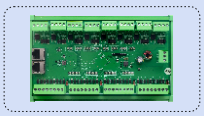


▶ESC-IO16

※ (L)105mm*(W)122mm*(H)55mm

※ DC24V power supply input (5.08 PITCH)
※ Provides reverse power protection
※ 16 INPUT / 16 OUTPUT
※ Single-point maximum output of 2A
※ Removable European standard 5.08 PITCH terminal block
※ INPUT (8PIN) / OUTPUT (4PIN) foolproof design

EtherCAT/32IN_32OUT/IO Module

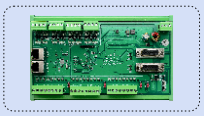


▶ESC-IO32

※ (L)210mm*(W)122mm*(H)55mm

※ DC24V power supply input (5.08 PITCH)
※ Provides reverse power protection
※ 32 INPUT / 32 OUTPUT
※ Single-point maximum output of 2A
※ Removable European standard 5.08 PITCH terminal block
※ INPUT (8PIN) / OUTPUT (4PIN) foolproof design

EtherCAT 24-point input / 16-point output (transistor) / 2-axis control IO Motion Module

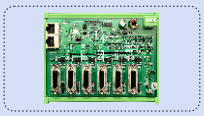


▶ESC-I24O16A2

※ (L)136mm*(W)124mm*(H)41mm

※ DC24V power input (5.08 PITCH)
※ Provides reverse power protection
※ 24 INPUT / 16 OUTPUT
※ 2-axis general-purpose axis control
※ Supports DC clock synchronization / Supports Repeat
※ Single-point maximum output of 2A
※ Removable European-style 5.08 PITCH terminal block
※ INPUT (8PIN) / OUTPUT (4PIN) foolproof design

EtherCAT 6-axis control (Pulse/Analog) Motion Module



▶ESC-AXES6

※ (L)153mm*(W)121mm*(H)42mm

※ DC24V power input (5.08 PITCH)
※ Provides reverse power protection
※ 6-Axis control
※ Output points optically isolated, FET output, maximum continuousoutput of 1A per point (maximum instantaneous allowable 9A)
※ Single-point maximum output of 100mA
※ Removable European-style 5.08 PITCH terminal block

Series	400M Series		600M Series		800M Series	
Commonly Ordered Models	400MA1-H	400MA2-H(V) 400MA3-H(V) 400MA4-V	600MB2-H(V)	600MB3-H(V) 600MB4-V	800MC2-H(V)	800MC3-H(V) 800MC4-V

▶System Specifications

Installation Method	Horizontal	Horizontal/Vertical	Horizontal/Vertical		Horizontal/Vertical	
Standard Number of Axes (Maximum Expansion, Optional)	6 (6)		7 (14)		7 (28)	
Standard Channel (Maximum Channel, Optional)	1 (1)		1 (2)		1 (4)	
Maximum Number Of Linked Axes Per Single Channel	4 (XYZA)		5 (XYZAB or XYZAC or XYZBC)		5 (XYZAB or XYZAC or XYZBC), with RTCP	
Maximum Number Of Spindles Per Single Channel	Standard 1 (Maximum 1)		Standard 1 (Maximum 3)		Standard 1 (Maximum 6)	
Display Screen Size	7 inch	8 inch/10.4 inch/15 inch	8 inch	10.4 inch/15 inch	8 inch	10.4 inch/15 inch
Application Scenarios (Axis Distribution)	Economical Milling Machine, Simple Milling Machine, Turret Milling Machine, Desktop Milling Machine, Drilling & TappingMachine: XYZ + Fourth Axis + Spindle + Tool Magazine		Machining Center, Drilling & Tapping Machine: 【XYZ + Spindle + Tool Magazine】* Channel 【XYZ + Fourth Axis + Spindle + Tool Magazine】* Channel 【XYZ + Fourth & Fifth Axes + Spindle + Tool Magazine】* Channel		Five-Axis Five-Linkage Machining Center (with RTCP) Multi-Channel Milling Machine (Three Channels and Above): 【XYZ + Fourth & Fifth Axes + Spindle + Tool Magazine】* Channel	
DA/AD	Optional Expansion					
Operating System	RT Linux					
Memory	1GB	2GB	2GB		2GB	
Program Capacity	4GB		8GB		8GB	
Number Of Pre-read Units	1000 Block/S		2000 Block/S		8000 Block/S	
Minimum Control Unit	0.00001mm					
Maximum Number Of Tool Compensation Groups	160 Groups					
Transmission	USB/RS485/LAN/WIFI					
Bus Functionality	EtherCAT Bus	MECHATROLINK-III (Optional), EtherCAT				
Standard I/O	I16/O16					
Maximum Expandable I/O	I32/O32		I64/O64		I128/O128	
Absolute Value Function	EtherCAT	MECHATROLINK-III, EtherCAT, MODBUS 485, SSI Absolute Value				

▶Program function

Programming instructions (G-codes)	Complies with international standards		
Macro programming standards	Supports (Macro B, Macro C)		
Background programming	●	●	●
Conversational intelligence	●	●	●
Program transfer via USB drive	●	●	●
Automatic program error checking	●	●	●
Program lock function	Program Editing Limitation (Optional)		

▶Five-Axis Functionality

Five-Axis Tool Center Point Control (RTCP)	○	○	●
Smooth Tool Center Point Functionality (Smooth TCP)	●	●	●

Product Feature Configuration
Parameter Specifications

Series	400M Series		600M Series		800M Series	
Commonly Ordered Models	400MA1-H	400MA2-H(V) 400MA3-H(V) 400MA4-V	600MB2-H(V)	600MB3-H(V) 600MB4-V	800MC2-H(V)	800MC3-H(V) 800MC4-V
▶ Compensation function						
Taper compensation	●		●		●	
Backlash compensation	●		●		●	
Corner radius compensation	●		●		●	
Bidirectional screw error compensation	●		●		●	
Feedforward compensation	●		●		●	
Double-Motor Anti-Backlash	○	●	○	●	○	●
Deflection Compensation of Ram	○	●	○	●	○	●
▶ G-Code Instructions						
High-Precision Trajectory Control Mode	●		●		●	
Path Smoothing Mode	●		●		●	
NURBS Curve Interpolation	●		●		●	
Thread Cutting	●		●		●	
Tool Offset	●		●		●	
High-Speed Peck Drilling Cycle	●		●		●	
Left-Hand Thread Milling Cycle	●		●		●	
Fine Boring Cycle	●		●		●	
Drilling Cycle	●		●		●	
Deep Hole Peck Drilling Cycle	●		●		●	
Peck Drilling Cycle	●		●		●	
Thread Milling Cycle	●		●		●	
Drilling Cycle	●		●		●	
High-Speed Drilling Cycle	●		●		●	
Semi-Automatic Fine Boring Cycle	●		●		●	
Deep Hole Peck Boring Cycle	●		●		●	
Multiple Sets of High-Speed High-Precision Parameters	○		●		●	
▶ High-Speed High-Precision						
Dynamic Positioning of Spindle (C-Axis)	No need to stop switching, direct positioning execution (requires servo spindle)					
Non-Stop Mode between Tool Sections	●		●		●	
CONSTANT JERK Control	●		●		●	
Automatic Corner Control	●		●		●	
Circular Arc Radius Speed Limitation	●		●		●	
NURBS Fitting	●		●		●	
Closed-Loop Control Functionality	○	●	Speed Control Closed Loop, Bus Control Closed Loop			

Series	400M Series		600M Series		800M Series	
Commonly Ordered Models	400MA1-H	400MA2-H(V) 400MA3-H(V) 400MA4-V	600MB2-H(V)	600MB3-H(V) 600MB4-V	800MC2-H(V)	800MC3-H(V) 800MC4-V

▶Auxiliary functions

Custom startup screen	●		●		●	
Custom M-code	●		●		●	
Custom G-code	●		●		●	
Mixing bus axes and generic axes	○	●	●		●	
IO redefinition function	●		●		●	
Tilted axis machining	○		●		●	
Tilted plane machining	○		●		●	
DNC Machining	●		●		●	
Proportional scaling	●		●		●	
Acceleration/Deceleration Type	Linear Type (Supports JERK), S-Curve Type, Exponential Type					
Tool Life Management	Time Limit/Count Limit Management					
Protection Functions	Safety Door, Hard Limit, Soft Limit, Unclamped Chuck Detection, Tool Change Detection					
Handwheel Prediction	Supports Handwheel Prediction/Handwheel Retract Function					
Handwheel Interrupt	●		●		●	
Restart Function	Automatic Program Breakpoint Searching and Restart, Customized Restart					
Multi-function Handwheel	●		●		●	
Graphical Simulation	Program Preview Before Execution, Dynamic Plotting During Program Execution					
Authority Management	●		●		●	
Calendar Lock	●		●		●	
Axis Load Monitoring	●		●		●	
Oscilloscope Monitoring	Real-time Monitoring of System Commands and Servo Feedback Waveforms					
Following Error Detection	●		●		●	
Spindle Speed Reach Detection	●		●		●	
Data Backup	Program Backup, Parameter Backup, Tool Compensation Backup					
Rapid Retraction of Tool for Tapping	●		●		●	
Diversified Tool Magazine	Disc Tool Magazine, Umbrella-Type Tool Magazine, Customized Tool Magazine					
Automatic Tool Alignment	●		●		●	

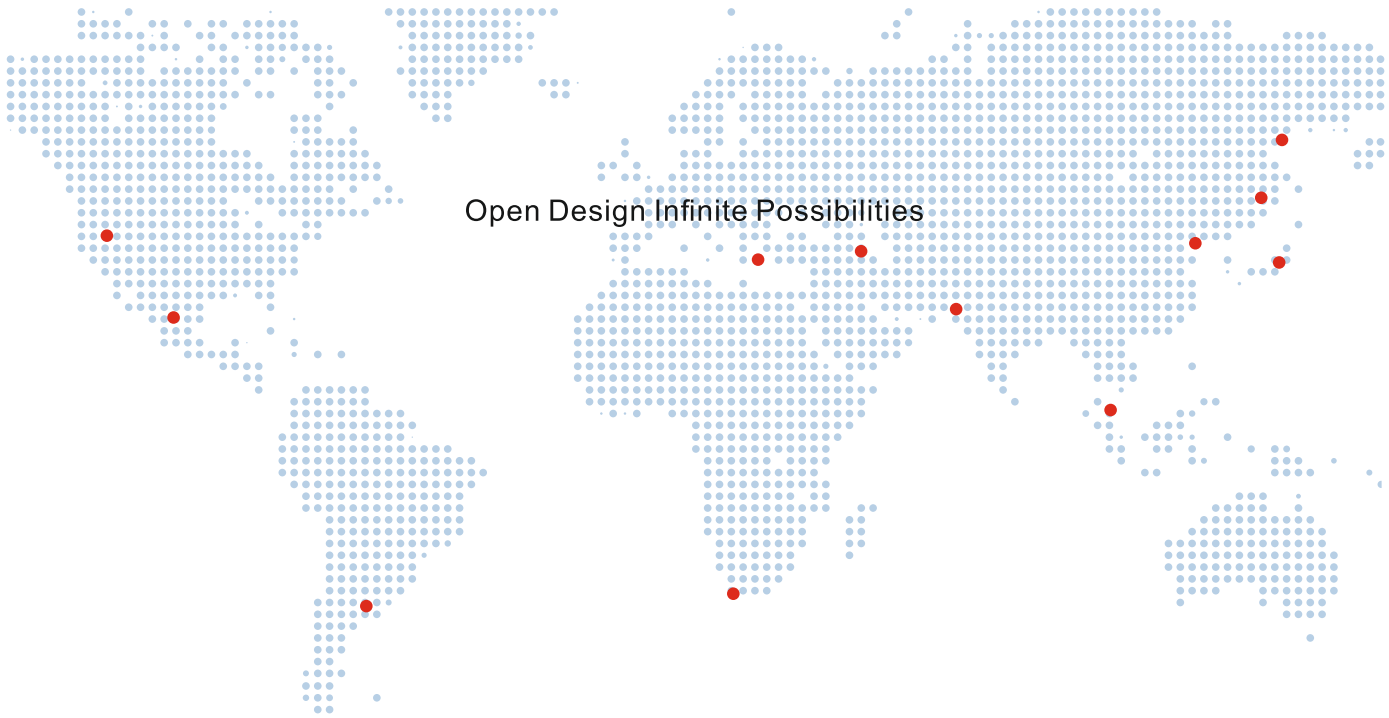
▶ Compound Functionality

Multi-Channel Functionality	○	(Optional) 16-Channel Configuration
Multi-Spindle Tapping	○	Support for Simultaneous Thread Milling with up to 10 Spindles
Independent channel control of robotic arm	○	● (Optional) Path Planning using G-Code

▶ Tool Kit

Industrial Internet of Things (IIoT)	Optional
Vision Inspection	Optional
CAD/CAM	Optional

FINGER CNC



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