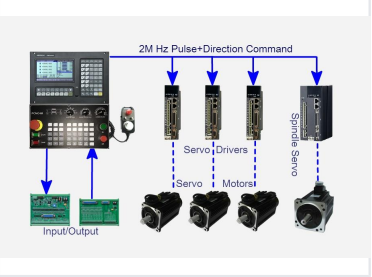
CNC Milling Machine Controller

This CNC milling machine controller utilizes FANUC O series technology, providing stable hardware and excellent motion control. The flexible platform allows for secondary development via PLC Ladder and supports international standard G/M code with 2-5 axis interpolation.



ADDITIONAL IMAGES

Overview

High-Performance CNC Milling Control

The TAC2000M series is a robust CNC milling controller based on stable hardware and advanced motion control algorithms. Designed for precision metal cutting, it offers a flexible platform for secondary development via PLC Ladder and supports international standard G/M codes. This system is ideal for professional manufacturing environments requiring high accuracy, reliability, and real-time process monitoring.

Core Performance

Processor Architecture	ARM9 + FPGA high-performance processor
Interpolation Cycle	1 ms
Control Precision	0.1 µm
Command Interface	2MHz Pulse + Direction

Technical Specifications

Axis Control

2	5
Minimum Axes	Maximum Axes

I/O Channels

Type	Count
Inputs	32
Outputs	32

Display	8-inch high-resolution color screen

Advanced Features

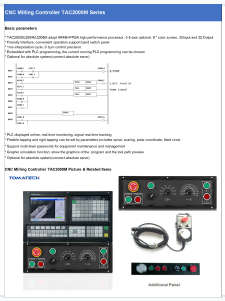
Programming & Logic

- Embedded PLC programming
- PLC online display and real-time monitoring
- Signal real-time tracking
- Support for absolute system (absolute servo connection)
- Multi-level password protection

Machining Functions

Supported Machining Functions	Flexible Tapping, Rigid Tapping, Spiral, Scaling, Polar Coordinate, Fixed Circle, Graphic Simulation, Tool Path Preview

Interface & Operation



Operator Controls

Band Switch Panel • Alphanumeric Keypad • Emergency Stop • Real-time Monitoring • Graphical Display