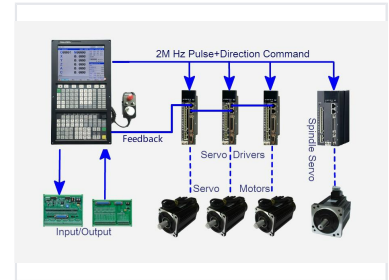


CNC Milling Machine Controller with Vertical Screen

This CNC milling machine controller utilizes stable hardware and an advanced motion control algorithm. It provides a flexible platform for secondary development via PLC Ladder and supports international standard G/M code for 2-5 axis interpolation.



ADDITIONAL IMAGES



Overview

High-Performance CNC Milling Control

This CNC milling controller is built on stable hardware and advanced motion control algorithms, providing a reliable platform for 2-5 axis interpolation. It features a vertical 10.4-inch color screen and a user-friendly interface designed to streamline machine operations. With support for international standard G/M codes and flexible PLC ladder development, it offers a versatile solution for professional milling applications.

Core Processing

Processor Architecture

ARM9 + FPGA high-performance processor

Control Performance

Key Performance Metrics

1 ms

Interpolation Cycle

0.1 μ m

Control Precision

2 MHz

Command Pulse

System Capacity

Axis Support

3-5 axis optional

I/O Channels

32 Inputs / 32 Outputs

Display & Interface



The controller features a robust interface with dedicated function keys and a high-visibility vertical display.

Display Specifications

- 10.4-inch high-resolution color screen
- Vertical orientation for ergonomic viewing
- Real-time graphic simulation and tool path preview
- Comprehensive status monitoring (Position, Feedrate, Spindle)

Software & Programming

Programming Features

International G/M Code, PLC Ladder Logic, Rigid Tapping, Flexible Tapping, Spiral Interpolation, Polar Coordinates, Scaling

Advanced Functions

System Capabilities

- Online PLC display and real-time signal tracking
- Multi-level password protection for maintenance
- Optional absolute system connectivity
- Support for band switch panels
- Feedback mechanism for precise motor control

Operational Controls

Physical Controls

QWERTY Keyboard, Emergency Stop, Feedrate Override, Spindle Override, MPG Mode, DNC Support