



JT-810

High Speed CNC Controller

Product descriptions and features

Features

T-810 is a high-end intelligent CNC controller researched and developed by JIATIE. It can be used in high speed engraving and milling machine, vertical machining center, drilling and milling center, 5-axis or 4-axis linkage machine, etc.

The controller is based on Intel's high-performance quad-core processor and is equipped with DSP and FPGA modules to perfectly realize real-time motion control technology and big data processing functions.

The human machine interface [HMI] is simple and easy to use. It's convenient for users to learn and master the machine operation quickly. The controller panel is in professional and high-end design, which is reliable, easy to use and with strong expandability. It's suitable for customization in different industries.

The controller is equipped with functions of S-shaped acceleration and deceleration control, high-speed high-precision contour accuracy control and 5-axis RTCP control. It can satisfy with various processing requirements of high speed, high precision, multi-axis linkage, etc.

JT-810 controller adopts an open architectural design with strong compatibility and openness. It supports functions of CCD image recognition, probe on-machine inspection/detection, machines interconnection, file sharing, remote monitoring and diagnosis, production data statistics, etc. It provides the machine with platform and comprehensive guarantee for realizing the Internet of Things, datamation and intelligence.



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Parameters

Item	Specification	Item	Specification
Number of control axes	Three-axis to five-axis interpolation	Interpolation method	Linear interpolation, circular interpolation, spline interpolation
CPU	1.8G, quad-core	5-axis tool tip follow (RTCP)	Supported
Memory	4G	Number of pre-reading segments	3000 segments
Storage	4G/16G/32G [optional]	G code	Support all standard G codes
Display	10.4", 1024*768	Compensation method	Tool compensation, ball screw accuracy compensation, backlash, unidirectional and bidirectional screw pitch accuracy compensation
I/O	Standard 16I/16O, can be extended to 128I/128O	Type of tool magazine	Linear, circular, D-shaped, umbrella-shaped, mechanical arm type, etc
Analog voltage output	-10V~10V	Tool calibration method	Automatic or manual
Mode of motion	S-shaped acceleration and deceleration, trapezoid acceleration and deceleration		

Parameters

Item	Specification	Item	Specification
File transfer method	Bidirectional interconnect transfer	Operation auxiliary	PLC, custom macros, subroutines
Coordinate system setting	Support G54-G59 coordinate system, support 50 extended coordinate systems	Human detection and smart standby mode	Supported
Processing technology	Mirror image, rotation, scaling, looping	Network intelligent interconnection	Supported
Language	Chinese / English	Hand wheel guiding machining	Support trial cut and rollback
Communication interface	RS232, RS485, gigabit Ethernet, USB	Full closed loop control	Supported
		Power off state cache	Supported and quick recovery of machining