

BEST CNC TECHNOLOGY IN
MOTION CONTROLLERS
MILLING-TURNING-SERVO-REDUCER

CORPORATE & MANUFACTURING

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TOMATECH
PERFECT
CNC INDUSTRIAL EQUIPMENTS

THE MOST COMPLETE INDUSTRIAL CNC EQUIPMENTS ON THE MARKET

CNC MOTION CONTROLLER



TOMATECH (SHENZHEN)AUTOMATION CO., LIMITED (TOMATECH) was founded in 2003, is a modern, hi-tech enterprise integrating development, production and sales & service of CNC controllers and industrial automation products. Its products basically cover controls for various CNC lathes, milling machines, and machining centers and other machinery industry. TOMATECH has several tens types of products dominated by TAC-1000T ,TAC-2000M series, meeting requirements for 1-5 axis machines, CNC lathes , milling machines, and machining centers in sector of machine tool, and providing enough options to different users.



SV Technologies is a young enterprise which is full of vitality. It is one of the best domestic automation system solution providers. We are pleasure to provide high and professional service to our customers. We aim to offer a comprehensive quality products with full-fledged technologies in automation industry.

As a Supplier, Wholesaler, Distributor, and Service Provider of CNC and other industrial related products .

GEAR REDUCER

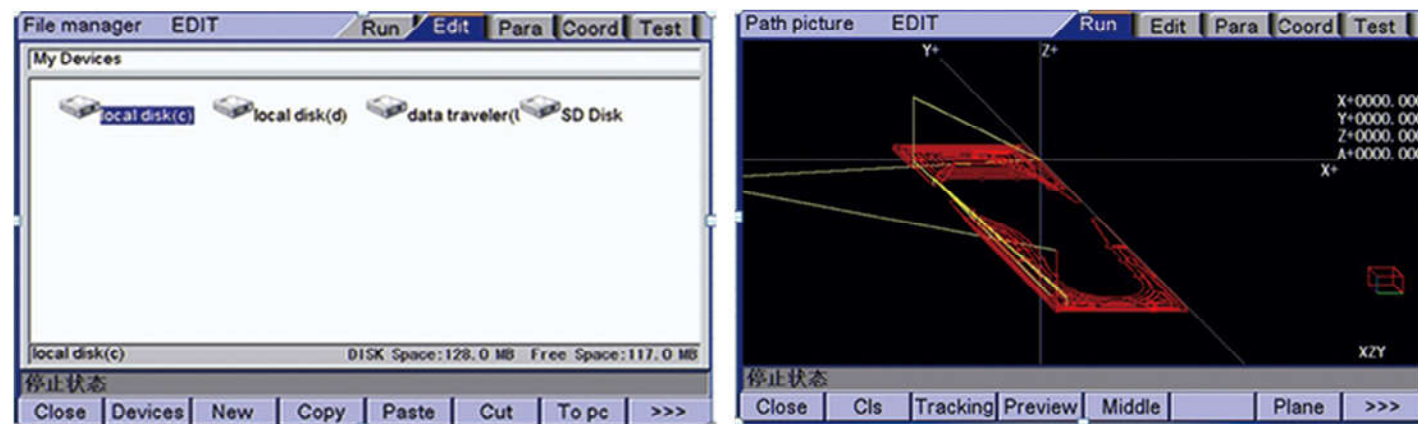


SERVO UNIT



CNC MILLING CONTROLLER CNC46XX SERIES

- * CNC4630/40 adopt ARM9+FPGA high performance processor, 3 and 4 axis optional. 7 " color screen, 24 Input and 24 Output
- * Real time multi task control and hardware interpolation technology, to realize the high efficiency of μm -level precision processing
- * 256M Electronic disk to meet the processing of a variety of large programs.- Support DNC , Friendly file management interface



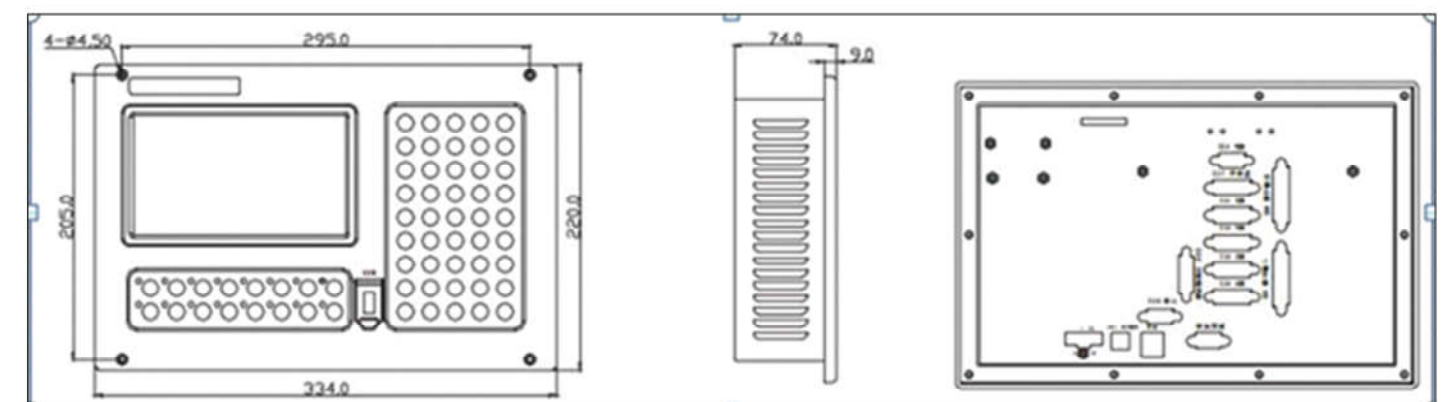
- * Macro variable, macro definition programming, realizing a variety of logical relations. Support macro program with parameters with
- * DXF+G code template function, converting DXF automatically to G code for processing.
- * All the logic write by Macro, Customer can modify the macro file to do some developing. Very flexible platform
- * Graphic simulation function: show the graphics of the program and the tool path preview



Relate Items



Dimension



CNC TURNING CONTROLLER CNC4620 SERIES



◆CNC4620 adopt ARM9+FPGA high performance processor, 2 axis. 7 " color screen, 24 Input and 24 Output

◆Real time multi task control and hardware interpolation technology, to realize the high efficiency of μm-level precision processing

◆256M Electronic disk to meet the processing of a variety of large programs , Friendly file management interface

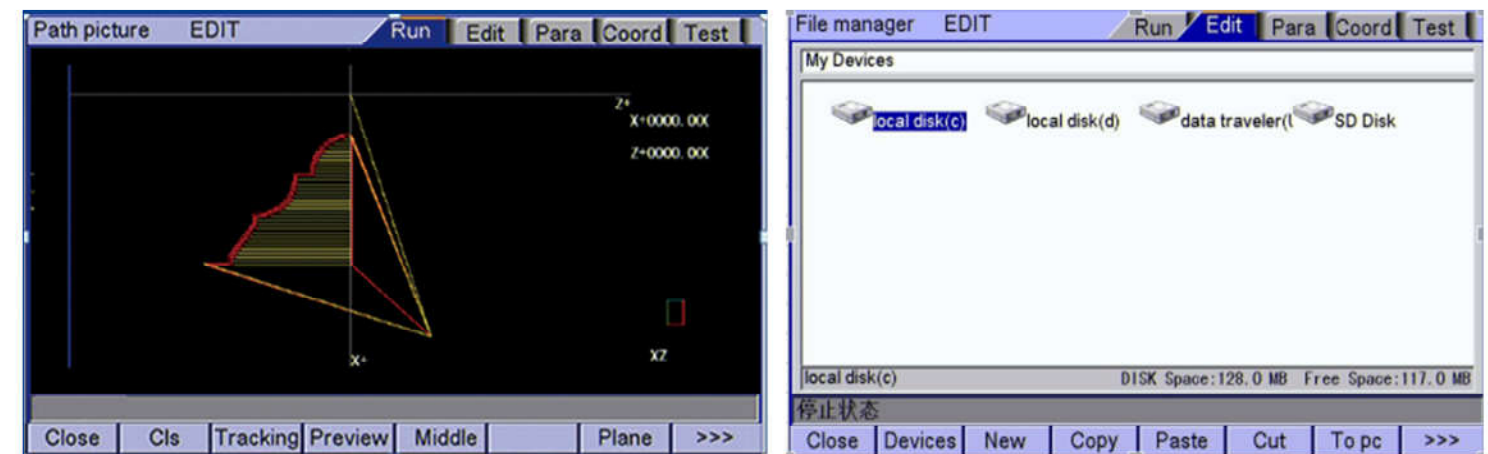
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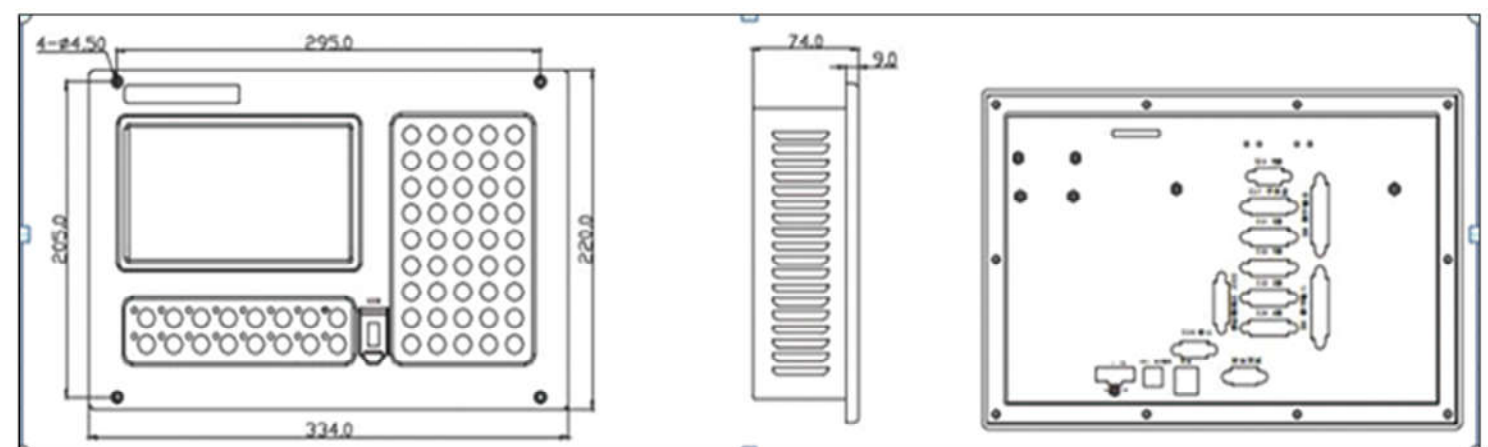
◆Macro variable, macro definition programming, realizing a variety of logical relations. Support macro program with parameters with parameters

◆All the logic write by Macro, Customer can modify the macro file to do some developing. Very flexible platform

◆ Graphic simulation function: show the graphics of the program and the tool path preview



Dimension



CNC MILLING CONTROLLER TAC100xM SERIES

- ◆ TAC1003M, TAC1004M, TAC1005M adopt ARM9+FPGA high performance processor, 3-5 axis optional. 7" color screen, 36 Input and 36 Output.
- ◆ 1ms interpolation cycle, 0.1μm control precision.
- ◆ Embedded with PLC programming, the current running PLC programming can be chosen
- ◆ PLC displayed online, real time monitoring, signal real time tracing programming
- ◆ Flexible tapping and rigid tapping can be set by parameters, Includes spiral, scaling, polar coordinate, fixed circle
- ◆ Support multi-level passwords for equipment maintenance and management
- ◆ Graphic simulation function: show the graphics of the program and the tool path preview



Horizontal Type



Vertical Type

CUSTOMER SMALL MILLING MACHINE



➤ servo



➤ Additional panel

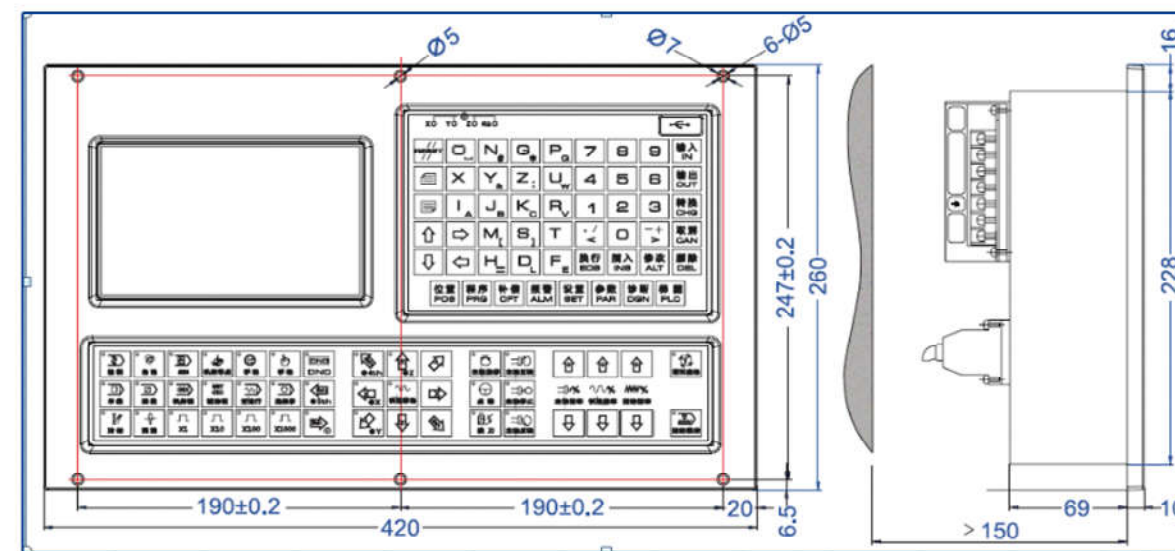


➤ Stepper Unit



Relate Items

Dimension



CNC TURNING CONTROLLER

- ◆ TAC1002T, TAC1003T, TAC1004T, TAC1005T adopt ARM9+FPGA high performance processor, 2-5 axis optional. 7" color screen, 36 Input and 36
- ◆ 1ms interpolation cycle, 0.1µm control precision.
- ◆ Embedded with PLC programming, the current running PLC programming can be chosen
- ◆ PLC displayed online, real time monitoring, signal real time tracing
- ◆ Flexible tapping and rigid tapping can be set by parameters, Includes spiral, scaling, polar coordinate, fixed circle
- ◆ Support multi-level passwords for equipment maintenance and management
- ◆ Graphic simulation function: show the graphics of the program and the tool path preview



CUSTOMER TURNING MACHINE



Additional panel ➤



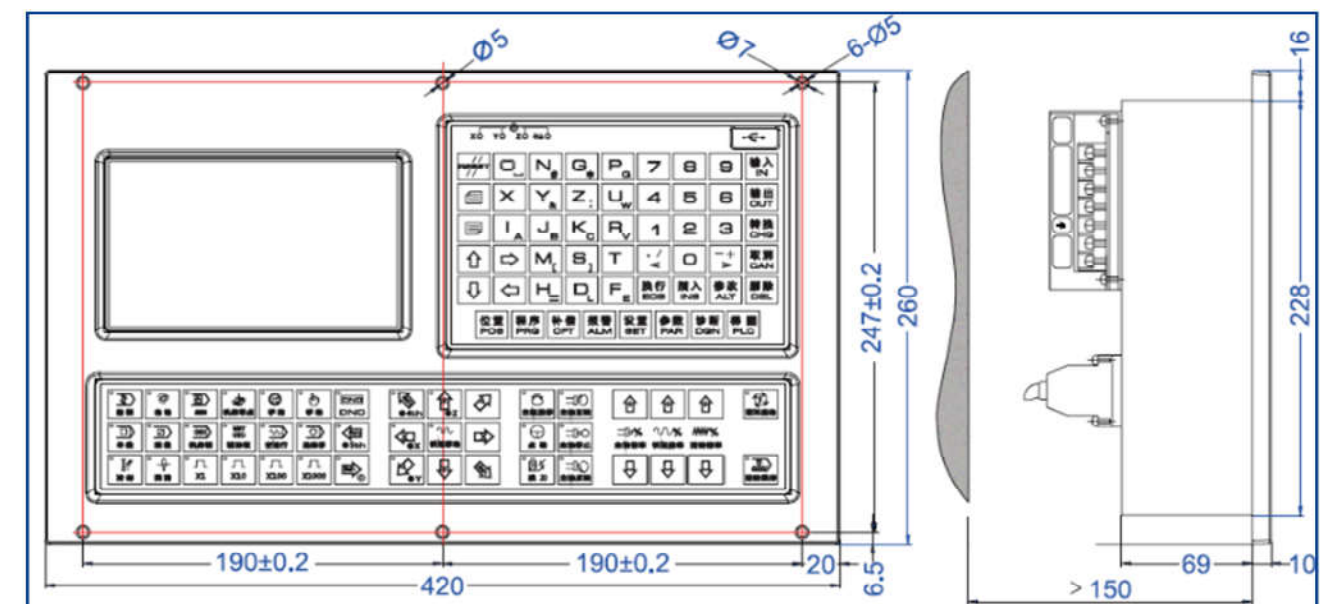
servo ➤



Stepper Unit ➤

Relate Items

Dimension



CNC FLAME PLASMA CUTTING CONTROL

Features

- ◆ ARM9 high-speed Microprocessor and super large programmable FPGA;
- ◆ Real time multitask control technology and hardware interpolation technology;
- ◆ 7 Inch real color display screen, Friendly and easily operation interface, Supporting multi language display;
- ◆ All Photovoltaic isolation control, super large anti-interference ability;
- ◆ Large storage space process file: 256M, demand complicated/large program running and processing;
- ◆ Plasma /flame controller can control 3 step/servo motor at the same time, which adopt doubt axis at one time or develop 3 axis ;
- ◆ Graphic library: 63 graphs, which can cutting hole or slice as choose;
- ◆ Graphic Dealing function, which are supporting edit Radom rotation, correction and mirror image function etc;
- ◆ Delay, preheating, perforating, changing nozzle, moving parts, moving parts etc process control;
- ◆ Break point recovery function;
- ◆ USB, RS232 serial communication control, directly read file buy U disk;
- ◆ Customized software: strong>it can apply for Plasma, Punch and engraving function within one machine, simple laser cutting etc.

I/O Specification:



◆ Digital Input ◆

Input Channel: 16, All Photovoltaic isolation
 Input Voltage: 12-24V DC
 High Level >4.5V
 Low Level <1.0V
 Isolation Voltage: 2500V DC, Strong



◆ Good compatibility ◆

Support all kinds of Servo / Stepper system
 Work with all kinds of nesting software , like FASTCAM
 Support THC (Torch height controller)



◆ Digital Output ◆

Output Channel: 16, All photovoltaic isolation
 Output type: NPN open-collector output
 12-24V DC, Max current 100mA.
 3 Axis Pulse + Direction control .Max. pulse frequency: 2MHz



◆ Application: ◆

Portable Flame/Plasma Cutting Machine
 Desktop Flame/Plasma Cutting Machine
 Gantry Type Flame/Plasma Cutting Machine



◆ Servo Moto

Product series:40 series, 60 series, 80 series, 90 series, 110 series, 130 series, 150 series, 180 series

Torque range:0.16N.m ~ 48N.m, power range: 0.05Kw ~ 7.5Kw.

The specification and parameters of the motor are shown in the 2017 product selection manual

Flange Size:	60-180mm
Power Range :	200w-5.5kw
Torque Range:	0.63-15nm
Speed Range:	1000-3000rpm
Encoder Resolution:	2500ppr



◆ Servo Driver

GA Series Driver(Economic Type)

Features:

General servo system rotary variable series of products using the new digital signal processor (DSP) and intelligent power module ;

Technical index;

Power range: 0.4kW ~ 3.0kW;

Input voltage: single phase or three phase 220VAC (-15~+10%), 50~60HZ;

Control mode: position control, speed control, torque control;

Encoder type: 2500 linear incremental optical encoder (provincial line / non provincial line), 1024 wire rotary encoder;

Communication mode: RS485, RS232, CANopen, standard MODBUS communication protocol;

Input and output points: IO can be programmed to support the positive and negative logic settings, 8 input supports 16 kinds of ;

Operation and display: 5 digital tube, 5 keys, or hand-held operation panel;

Monitoring function: to provide position, speed, current, voltage, input and output, and so on up to 30 kinds of state monitoring



GA Series Driver



K Series Driver



■ SERVO Common Motor Selection Table

Flange Size:	Modle	Power	Speed	Torque	Current	Inertia	Length
		Kw	rpm	Nm	A	Kg-cm2	mm
60	60ST-M00630	0.2	3000	0.64	1.5	0.17	102
60	60ST-M01330	0.4	3000	1.27	2.8	0.302	122
60	60ST-M01930	0.6	3000	1.9	3.5	0.438	144
80	80ST-M01330	0.4	3000	1.27	2	1.05	123
80	80ST-M02430	0.75	3000	2.4	3	1.82	150
80	80ST-M04025	1	2500	4	4.4	2.97	190
90	90ST-M02430	0.75	3000	2.4	3	2.45	149
90	90ST-M04025	1	2500	4	4	3.7	181
110	110ST-M04030	1.2	3000	4	5	5.4	189
110	110ST-M05030	1.5	3000	5	6	6.3	204
110	110ST-M06020	1.2	2000	6	7	7.6	200
130	130ST-M04025	1	2500	4	4	8.5	166
130	130ST-M05025	1.3	2500	5	5	10.6	171
130	130ST-M06025	1.5	2500	6	6	12.6	179
130	130ST-M07725	2	2500	7.7	7.5	15.3	192
130	130ST-M10015	1.5	1500	10	6	19.4	213
130	130ST-M10025	2.6	2500	10	10	19.4	209
130	130ST-M15025	3.8	2500	15	13.5	27.7	231
150	150ST-M15020	3	2000	15	14	38.8	230
180	180ST-M17215	2.7	1500	17.2	10.5	34	226
180	180ST-M19015	3	1500	19	12	38	232

K Series Driver(Advanced Type)

Features:

High performance servo drive products,K series is the company in the high-end market design for the introduction of high - order multi - function AC servo driver, high speed, high precision, high response, the structure is more optimized. Support 220VAC or 380VAC input, support the standard MODBUS protocol, CANOPEN bus and M2, M3 bus, built-in simple PLC function. To achieve the reliability of the design of the national standard 4, a wider power range, the current range of power: 0.4kW~7.5kW.

K series drive also support dual axis output, compact structure, is an environmental protection and energy saving servo drive, output power of 0.4 kW ~ 1.5 kW, stable and reliable product economy.