

The leader of domestic motion control solution provider



The leader of domestic motion control solution provider

ADTECH (SHENZHEN) TECHNOLOGY CO., LTD.

Address: 5th Floor, Tianxia IC Industrial Park, Majialong, Yiyuan Road, Nanshan District, Shenzhen City, Guangdong Province, P.R.China
 Tel : +86-755-2609 9116
 Fax: +86-755-2672 2718
 Mob: +86 139 0296 6285
 Email: export@machine-controller.com
 Website: www.machine-controller.com
 www.adtechen.com

CNC control system selection booklet

Content

CNC4620 Lathe machine control system	03
CNC4640 Milling machine control system	05
CNC4940 Milling machine control system	07
CNC4960 Milling machine control system	09
MCK300A lathe and milling machine control system for wooden work	11
NCT-02 Punching machine control system	13
NCT-03 Punching machine control system	15
NCT-04 Punching machine control system	17
DK300A 3 axis Engraving machine control system	19
DK400A 4 axis Engraving machine control system	21
CNC4980 8 axis CNC control system	23
Integrated Drive and Control system	25
Multiple NC motion control module	27
System command function table	29



As China's leading motion control solution supplier, ADTECH establishes 2 product systems : motion control system (motion controller, stepper & servo driver, motor and industry application software) ; CNC equipment (industrial robot, teaching lathe & miller, etc.) , widely used in machines, plastic industry, aerospace, medical instrument, electronic assemble, metal cutting, daily use chemical industry and so on, ADTECH is becoming a typical brand in motion control application area.

ADTECH has set up liaison office in nearly 10 major cities in China, service center in more than 30 cities, building up global sales & service network, ADTECH products have been sold to more than 103 countries including Europe & America, the middle east, southeast Asia, Hongkong, Taiwan and so on.



ShenZhen Headquarter



Marketing Center



Training Site



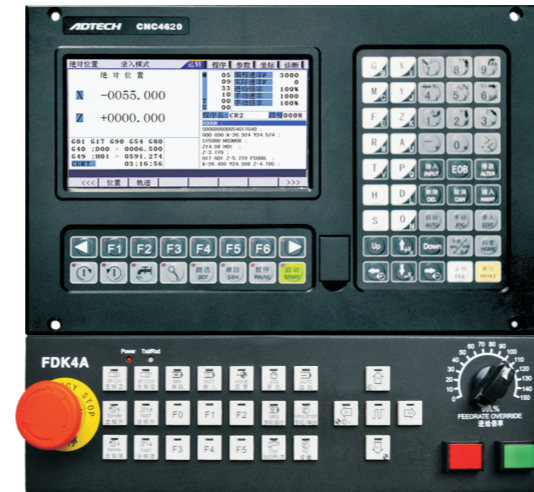
Automation Production Line

CNC4620

CNC Lathe machine control system

Introduction:

ADTECH specifically for small and medium sized machine tool manufacturers both in domestic and abroad independent research and development of cost-effective CNC control system. Use ARM high performance CPU and super-large-scale programmable device FPGA, real-time multitasking control and hardware interpolation technology to ensure high efficiency of the system under the um-level precision machining. 256M electronic panel meets variety of large program work pieces. 7 inches color screen, interface can be made of parameter selection in both Chinese and English.



Function Specification

- Controlled axes X, Z-axis two-micron precision interpolation
- Can be configured according to different user needs stepping, servo drive, to achieve cost performance
- USB, U disk, RS232Com communication and so on the many kinds of communication methods, easy to help users to realize different data transfer and software upgrades
- With a network interface, support for remote monitoring and DNC file transfer process
- An open platform, can be customized according to customer's requirements the special system.
- Perfect self-diagnosis function, internal and external state of real-time display, abnormal alarm immediately.
- Supports external additional panel, hand wheel box operation, convenient for the customer tools changing.
- Macro variables, macro definition programming, for a variety of logic relations. Support with parameters of macro program invocation, the user more convenient programming.
- DXF + G code template function, the DXF automatically converted to G code processing.
- Variety of ways with automatic calibration, the tools calibrate instrument etc.
- The teaching function: teaching + RISC programming, using tabular teaching mode, the teaching method is simple, intuitive.
- Graphic simulation function: Display graphics as well as the tool movement trajectory of the actual operation of the machining program, but does not control the machine running the simulation tool path, inspection of machining program is correct.
- Multi-interface options: Support multi-language interface display, automatic fault alarm, rich in processing information display, processing time, number of pieces.
- Parameter table: input and output address arbitrarily set, only need to address bar to fill in the corresponding data in the configuration table.
- 7 inch large color (800 * 480 pixels) LCD screen

Parameter table

Input and output address arbitrarily set, only need to address bar to fill in the corresponding data in the configuration table.

配合参数	自动模式	名称	程序	参数	地址	范围
G01.1轴每分进给速度	1	G13.1轴每分进给速度 (mm/min)		100		100
G02.2轴每分进给速度	1	G14.2轴每分进给速度 (mm/min)		100		100
G03.3轴每分进给速度	1	G15.3轴每分进给速度 (mm/min)		100		100
G04.4轴每分进给速度	1	G16.4轴每分进给速度 (mm/min)		100		100
G05.5轴每分进给速度	1	G17.5轴每分进给速度 (mm/min)		1000		1000
G06.6轴每分进给速度	1	G18.6轴每分进给速度 (mm/min)		1000		1000
G07.7轴每分进给速度	1	G19.7轴每分进给速度 (mm/min)		1000		1000
G08.8轴每分进给速度	1	G20.8轴每分进给速度 (mm/min)		1000		1000
G09.9轴每分进给速度	1	G21.9轴每分进给速度 (mm/min)		1000		1000
G10.10轴每分进给速度	3000	G22.10轴每分进给速度 (mm/min)		9999.999		9999.999
G11.11轴每分进给速度	3000	G23.11轴每分进给速度 (mm/min)		9999.999		9999.999
G12.12轴每分进给速度	3000	G24.12轴每分进给速度 (mm/min)		9999.999		9999.999

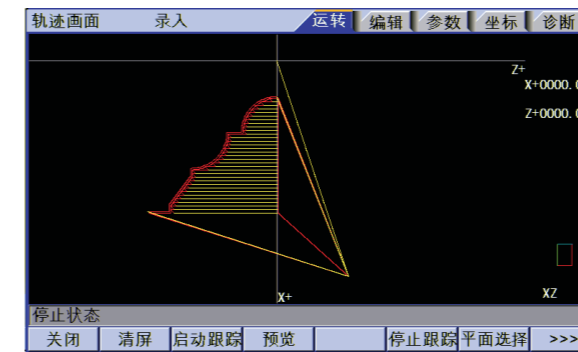
Multi-interface options

Support multi-language interface display, automatic fault alarm, rich in processing information display, processing time, number of pieces.



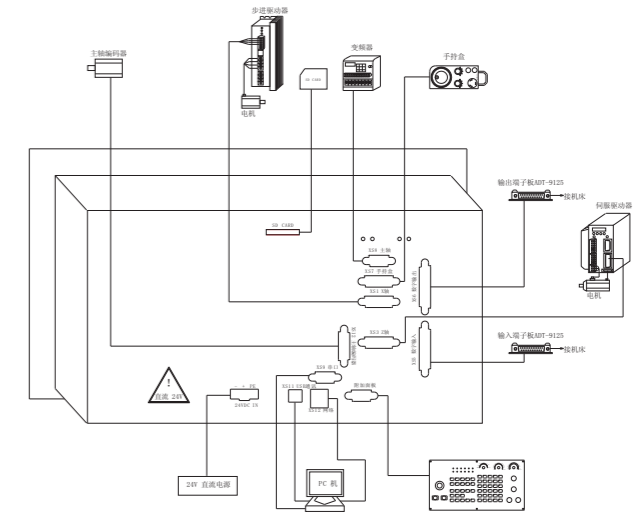
Graphic simulation function

Display graphics as well as the tool movement trajectory of the actual operation of the machining program, but does not control the machine running the simulation tool path, inspection of machining program is correct.



Easy Installation

Reliable structure, all interfaces are standard DB connector



Additional Accessories



Hand wheel box

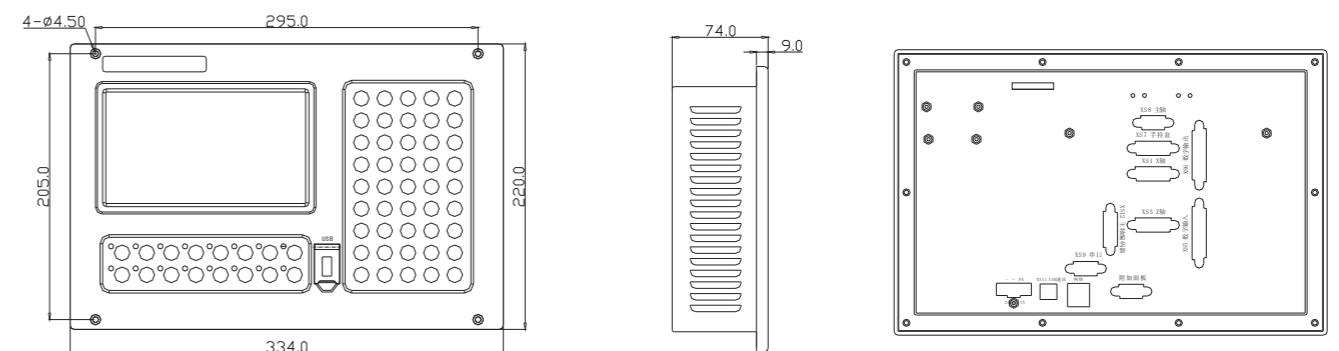
Input/Output Splitter

Servo, Stepper Unit

Additional Panel

Dimension figure

Unit: (mm)



CNC4640

CNC milling/drilling controlling system

Introduction:

ADTECH researches and develops this high performance CNC controller CNC4640 specifically for small and medium-sized CNC machine manufacturers.

Using ARM high performance CPU and ultra large scale programmable devices FPGA, 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.

7 inch color display, Chinese and English interface can be selected by the parameters.



Function Specification

- X, Y, Z, A four axis micron level interpolation accuracy controlling;
- Can be configured with the stepper/servo drive, to achieve high performance to price ratio according to different users' requirement.
- USB/U dis/RS232COM etc many kinds of communication mode, to help users achieve different data transmission and software upgrades easily.
- Network interface, supporting for remote monitoring and DNC file transfer processing
- Open platform, customizing special system according to customer demand.
- Perfect self diagnosis function, internal and external status real-time display, alarm immediately when abnormal.
- With external additional panel, hand box operation, convenient to operate.
- Macro variable, macro definition programming, realizing a variety of logical relations. Support macro program with parameters, convenient to the user programming
- DXF+G code template function, converting DXF automatically to G code for processing.
- With the automatic aligning instrument.
- Teaching function: Teaching+ simplified instruction programming, teaching methods in table format, that is simple and intuitive.
- Graphic simulation function: show the graphics of the processing program and the tool path of the actual operation, tool path simulation processing without controlling the operation of the machine, to exam if the preparation process is correct.
- Multi interface selection: support multi language interface display, automatic fault alarm. Processing information display, processing time, the number.
- Parameter tabular: Input / output address number setting, only need to fill in the corresponding value in the configuration table.
- 7 inch super large colorful(800*480) LCD screen.

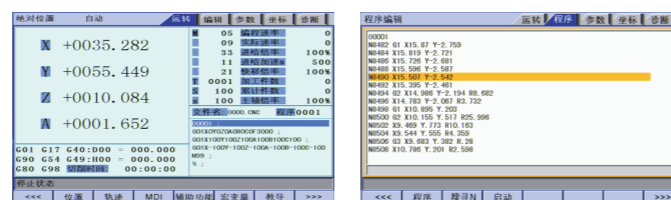
Parameter table

Input and output address arbitrarily set, only need to address bar to fill in the corresponding data in the configuration table.

综合参数	自动模式	单位	程序	坐标	单位	范围
001 X轴脉冲当量	1	013.X轴脉冲当量(mm/m)			100	
002 Y轴脉冲当量	1	014.Y轴脉冲当量(mm/m)			100	
003 Z轴脉冲当量	1	015.Z轴脉冲当量(mm/m)			100	
004 A轴脉冲当量	1	016.A轴脉冲当量(mm/m)			1000	
005 2轴脉冲当量	1	017.2轴脉冲当量(mm/m)			1000	
006 3轴脉冲当量	1	018.3轴脉冲当量(mm/m)			1000	
007 4轴脉冲当量	1	019.4轴脉冲当量(mm/m)			1000	
008 5轴脉冲当量	1	020.5轴脉冲当量(mm/m)			1000	
009 X轴脉冲当量	3000	021.X轴脉冲当量(mm)			9999.999	
010 Y轴脉冲当量	3000	022.Y轴脉冲当量(mm)			9999.999	
011 Z轴脉冲当量	3000	023.Z轴脉冲当量(mm)			9999.999	
012 A轴脉冲当量	3000	024.A轴脉冲当量(mm)			9999.999	

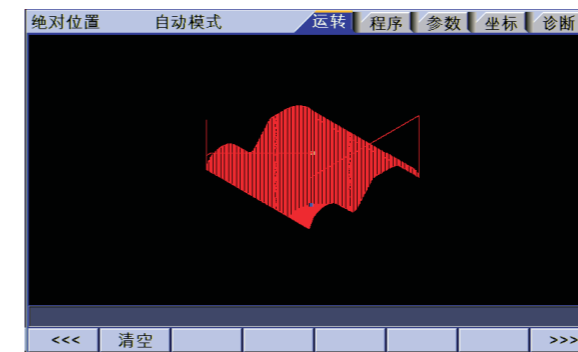
Multi-interface options

Support multi-language interface display, automatic fault alarm, rich in processing information display, processing time, number of pieces.



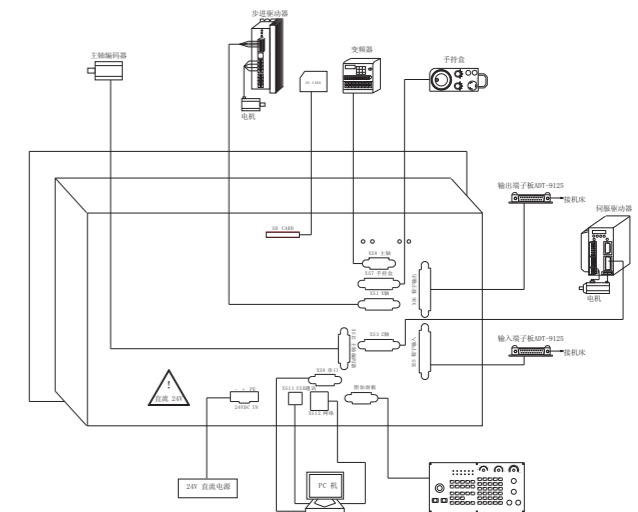
Graphic simulation function

Display graphics as well as the tool movement trajectory of the actual operation of the machining program, but does not control the machine running the simulation tool path, inspection of machining program is correct.



Easy Installation

Reliable structure, all interfaces are standard DB connector



Additional Accessories



Hand wheel box



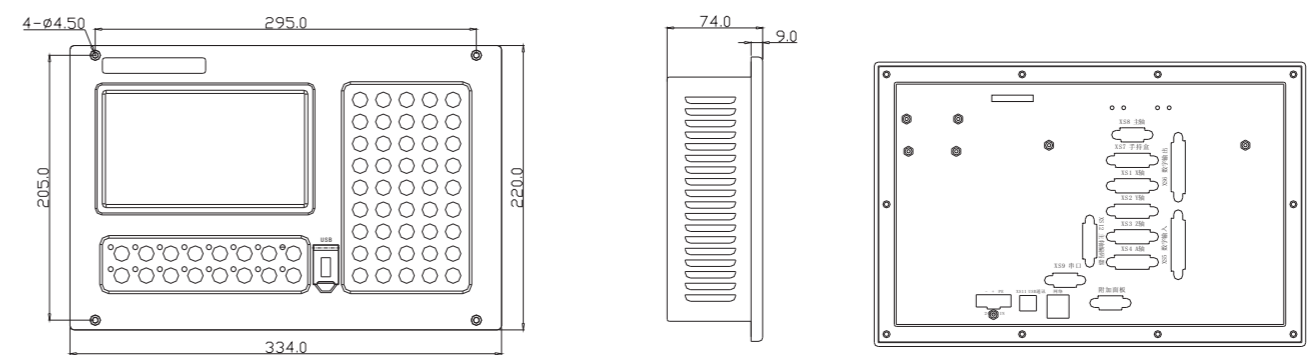
Additional Panel



Servo, Stepper Unit

Dimension figure

Unit: (mm)



CNC4940

4 axis CNC milling/drilling controlling system

Introduction:

ADTECH researches and develops this high performance CNC controller CNC4940 specifically for small and medium-sized CNC machine manufacturers. Using ARM high performance CPU and ultra large scale programmable devices FPGA, real time multi task control and hardware interpolation technology, to realize the high efficiency of μm -level precision processing. DNC on line transfer function meets the processing of a variety of large programs. 10.4 inch color display, Chinese and English interface can be selected by the parameters. Applicable to a variety of milling, machining center machine tool, non-standard machinery and other machinery CNC application of automation field.



Function Specification

- X, Y, Z, A four axis micron level interpolation accuracy controlling;
- Can be configured with the stepper/servo drive, to achieve high performance to price ratio according to different users' requirement.
- USB/U dis/RS232COM etc many kinds of communication mode, to help users achieve different data transmission and software upgrades easily.
- Network interface, supporting for remote monitoring and DNC file transfer processing
- Open platform, customizing special system according to customer demand.
- Perfect self diagnosis function, internal and external status real-time display, alarm immediately when abnormal.
- With external additional panel, hand box operation, convenient to operate.
- Macro variable, macro definition programming, realizing a variety of logical relations. Support macro program with parameters, convenient to the user programming
- High speed intelligent speed preconditioning motion processing, stable processing.
- Using ARM processor and FPGA motion control technology, processing speed up to 60m/min
- RS485 expansion bus, with IO peripheral extension.
- Adopt international standard G code, with large storage space, support multi file and large file processing and storage.
- Support the powerful B macro resolution function, to facilitate users to develop their own motion control program
- DXF+G code template graphics analysis.
- Forward and trajectory smoothing algorithms for up to 2000 segments, support NURBS spline interpolation.
- Save automatically when power failure, password protection, screensaver.

Parameter table

Input and output address arbitrarily set, only need to address bar to fill in the corresponding data in the configuration table.

程序名称	手轮	地址	地址	地址	地址
001 启动	0	0	0	0	0
002 停止	1	1	1	1	1
003 进给	2	2	2	2	2
004 主轴	3	3	3	3	3
005 冷却	4	4	4	4	4
006 报警	5	5	5	5	5
007 速度	6	6	6	6	6
008 位置	7	7	7	7	7
009 温度	8	8	8	8	8
010 压力	9	9	9	9	9
011 流量	10	10	10	10	10
012 湿度	11	11	11	11	11
013 重量	12	12	12	12	12
014 长度	13	13	13	13	13
015 面积	14	14	14	14	14
016 体积	15	15	15	15	15
017 重量	16	16	16	16	16
018 长度	17	17	17	17	17
019 面积	18	18	18	18	18
020 体积	19	19	19	19	19

Multi-interface options

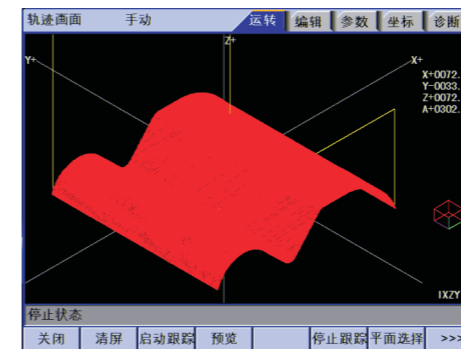
Support multi-language interface display, automatic fault alarm, rich in processing information display, processing time, number of pieces.

程序名称	手轮	地址	地址	地址	地址
001 启动	0	0	0	0	0
002 停止	1	1	1	1	1
003 进给	2	2	2	2	2
004 主轴	3	3	3	3	3
005 冷却	4	4	4	4	4
006 报警	5	5	5	5	5
007 速度	6	6	6	6	6
008 位置	7	7	7	7	7
009 温度	8	8	8	8	8
010 压力	9	9	9	9	9
011 流量	10	10	10	10	10
012 湿度	11	11	11	11	11
013 重量	12	12	12	12	12
014 长度	13	13	13	13	13
015 面积	14	14	14	14	14
016 体积	15	15	15	15	15
017 重量	16	16	16	16	16
018 长度	17	17	17	17	17
019 面积	18	18	18	18	18
020 体积	19	19	19	19	19

程序名称	手轮	地址	地址	地址	地址
001 启动	0	0	0	0	0
002 停止	1	1	1	1	1
003 进给	2	2	2	2	2
004 主轴	3	3	3	3	3
005 冷却	4	4	4	4	4
006 报警	5	5	5	5	5
007 速度	6	6	6	6	6
008 位置	7	7	7	7	7
009 温度	8	8	8	8	8
010 压力	9	9	9	9	9
011 流量	10	10	10	10	10
012 湿度	11	11	11	11	11
013 重量	12	12	12	12	12
014 长度	13	13	13	13	13
015 面积	14	14	14	14	14
016 体积	15	15	15	15	15
017 重量	16	16	16	16	16
018 长度	17	17	17	17	17
019 面积	18	18	18	18	18
020 体积	19	19	19	19	19

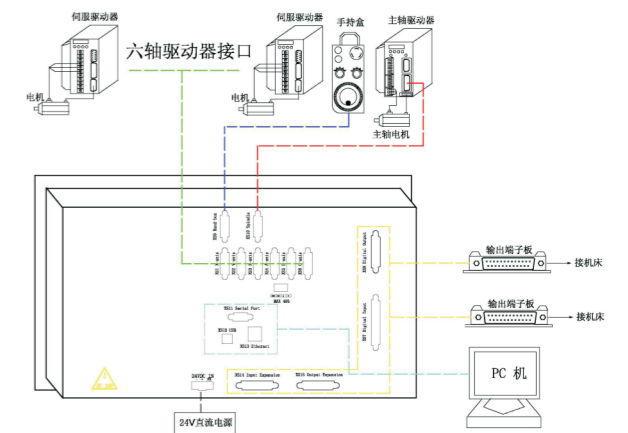
Graphic simulation function

Display graphics as well as the tool movement trajectory of the actual operation of the machining program, but does not control the machine running the simulation tool path, inspection of machining program is correct.



Easy Installation

Reliable structure, all interfaces are standard DB connector



Additional Accessories



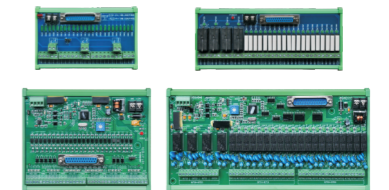
Hand wheel box



Additional Panel



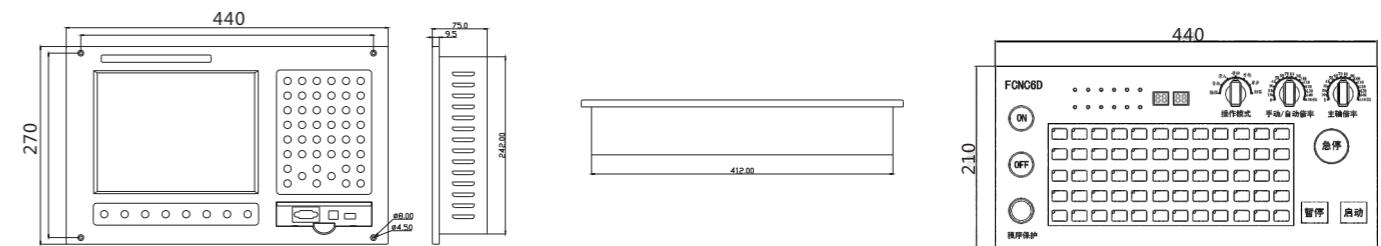
Servo, Stepper Unit



Input/Output Splitter

Dimension figure

Unit: (mm)



CNC4960

6 axis CNC milling machine control system

Introduction:

Shenzhen Adtech Technology Co., Ltd. specifically for independent research and development of domestic and foreign small machine tool manufacturers cost-effective CNC system. ARM high performance CPU and ultra large scale programmable device FPGA, real-time multi task control and hardware interpolation technology, to ensure that the system m level precision machining of high efficiency. DNC online transfer function to meet the processing of a variety of large programs. 10.4 inch color large screen display, the Chinese and English interface can be chosen by the parameters. Applicable to a variety of milling, machining center machine tool, non-standard machinery and other automation of the field of mechanical control of the use of machinery.



Function Specification

- Control axis number X, Y, Z, A, B, C six axis micron level interpolation accuracy;
- Can be configured according to different user needs to configure the stepper, servo drive, to achieve high cost;
- USB, U disk, RS232COM communications and other communication methods, easy to help users achieve different data transmission requirements and software upgrades;
- With network interface, support for remote monitoring and DNC file transfer processing;
- Open platform, according to customer demand for customized special plane system;
- Perfect self diagnosis function, internal and external status real-time display, abnormal immediately alarm;
- Support external additional panel, hand box operation, convenient customer knife;
- Macro variable, macro definition programming, the realization of a variety of logical relations. Support with parameters of the macro program call, the user programming more convenient;
- High speed intelligent speed pretreatment processing, processing stability;
- With RS485 expansion bus, support IO peripheral expansion;
- Using international standard G code, with large storage space, support multi file and large file processing and storage;
- Support the powerful B macro analysis function, to facilitate users to develop their own motion control program;
- As many as 2000 segments of the forward and trajectory smoothing algorithms, support for NURBS spline interpolation;
- Power save function, password protected screen saver function etc.

Parameter table

Input and output address arbitrarily set, only need to address bar to fill in the corresponding data in the configuration table.

程序名称	手车	地址	参数	地址	参数
001 G17 G40 G00 = 000,000		000	000	000	000
002 G18 G41 G00 = 000,000		001	000	000	000
003 G19 G42 G00 = 000,000		002	000	000	000
004 G20 G94 G00 = 000,000		003	000	000	000
005 G21 G99 G00 = 000,000		004	000	000	000
006 G40 G00 = 000,000		005	000	000	000
007 G41 G00 = 000,000		006	000	000	000
008 G42 G00 = 000,000		007	000	000	000
009 G54 G00 Z0 = 000,000		008	000	000	000
010 G55 G00 Z0 = 000,000		009	000	000	000
011 G56 G00 Z0 = 000,000		010	000	000	000
012 G57 G00 Z0 = 000,000		011	000	000	000
013 G58 G00 Z0 = 000,000		012	000	000	000
014 G59 G00 Z0 = 000,000		013	000	000	000
015 G64 G00 Z0 = 000,000		014	000	000	000
016 G65 G00 Z0 = 000,000		015	000	000	000
017 G66 G00 Z0 = 000,000		016	000	000	000
018 G67 G00 Z0 = 000,000		017	000	000	000
019 G68 G00 Z0 = 000,000		018	000	000	000
020 G69 G00 Z0 = 000,000		019	000	000	000
021 G70 G00 Z0 = 000,000		020	000	000	000
022 G71 G00 Z0 = 000,000		021	000	000	000
023 G72 G00 Z0 = 000,000		022	000	000	000
024 G73 G00 Z0 = 000,000		023	000	000	000
025 G74 G00 Z0 = 000,000		024	000	000	000
026 G75 G00 Z0 = 000,000		025	000	000	000
027 G76 G00 Z0 = 000,000		026	000	000	000
028 G77 G00 Z0 = 000,000		027	000	000	000
029 G78 G00 Z0 = 000,000		028	000	000	000
030 G79 G00 Z0 = 000,000		029	000	000	000
031 G80 G00 Z0 = 000,000		030	000	000	000
032 G81 G00 Z0 = 000,000		031	000	000	000
033 G82 G00 Z0 = 000,000		032	000	000	000
034 G83 G00 Z0 = 000,000		033	000	000	000
035 G84 G00 Z0 = 000,000		034	000	000	000
036 G85 G00 Z0 = 000,000		035	000	000	000
037 G86 G00 Z0 = 000,000		036	000	000	000
038 G87 G00 Z0 = 000,000		037	000	000	000
039 G88 G00 Z0 = 000,000		038	000	000	000
040 G89 G00 Z0 = 000,000		039	000	000	000
041 G90 G00 Z0 = 000,000		040	000	000	000
042 G91 G00 Z0 = 000,000		041	000	000	000
043 G92 G00 Z0 = 000,000		042	000	000	000
044 G93 G00 Z0 = 000,000		043	000	000	000
045 G94 G00 Z0 = 000,000		044	000	000	000
046 G95 G00 Z0 = 000,000		045	000	000	000
047 G96 G00 Z0 = 000,000		046	000	000	000
048 G97 G00 Z0 = 000,000		047	000	000	000
049 G98 G00 Z0 = 000,000		048	000	000	000
050 G99 G00 Z0 = 000,000		049	000	000	000
051 G17 G40 G00 = 000,000		050	000	000	000
052 G18 G41 G00 = 000,000		051	000	000	000
053 G19 G42 G00 = 000,000		052	000	000	000
054 G20 G94 G00 = 000,000		053	000	000	000
055 G21 G99 G00 = 000,000		054	000	000	000
056 G40 G00 = 000,000		055	000	000	000
057 G41 G00 = 000,000		056	000	000	000
058 G42 G00 = 000,000		057	000	000	000
059 G54 G00 Z0 = 000,000		058	000	000	000
060 G55 G00 Z0 = 000,000		059	000	000	000
061 G56 G00 Z0 = 000,000		060	000	000	000
062 G57 G00 Z0 = 000,000		061	000	000	000
063 G58 G00 Z0 = 000,000		062	000	000	000
064 G59 G00 Z0 = 000,000		063	000	000	000
065 G64 G00 Z0 = 000,000		064	000	000	000
066 G65 G00 Z0 = 000,000		065	000	000	000
067 G66 G00 Z0 = 000,000		066	000	000	000
068 G67 G00 Z0 = 000,000		067	000	000	000
069 G68 G00 Z0 = 000,000		068	000	000	000
070 G69 G00 Z0 = 000,000		069	000	000	000
071 G70 G00 Z0 = 000,000		070	000	000	000
072 G71 G00 Z0 = 000,000		071	000	000	000
073 G72 G00 Z0 = 000,000		072	000	000	000
074 G73 G00 Z0 = 000,000		073	000	000	000
075 G74 G00 Z0 = 000,000		074	000	000	000
076 G75 G00 Z0 = 000,000		075	000	000	000
077 G76 G00 Z0 = 000,000		076	000	000	000
078 G77 G00 Z0 = 000,000		077	000	000	000
079 G78 G00 Z0 = 000,000		078	000	000	000
080 G79 G00 Z0 = 000,000		079	000	000	000
081 G80 G00 Z0 = 000,000		080	000	000	000
082 G81 G00 Z0 = 000,000		081	000	000	000
083 G82 G00 Z0 = 000,000		082	000	000	000
084 G83 G00 Z0 = 000,000		083	000	000	000
085 G84 G00 Z0 = 000,000		084	000	000	000
086 G85 G00 Z0 = 000,000		085	000	000	000
087 G86 G00 Z0 = 000,000		086	000	000	000
088 G87 G00 Z0 = 000,000		087	000	000	000
089 G88 G00 Z0 = 000,000		088	000	000	000
090 G89 G00 Z0 = 000,000		089	000	000	000
091 G90 G00 Z0 = 000,000		090	000	000	000
092 G91 G00 Z0 = 000,000		091	000	000	000
093 G92 G00 Z0 = 000,000		092	000	000	000
094 G93 G00 Z0 = 000,000		093	000	000	000
095 G94 G00 Z0 = 000,000		094	000	000	000
096 G95 G00 Z0 = 000,000		095	000	000	000
097 G96 G00 Z0 = 000,000		096	000	000	000
098 G97 G00 Z0 = 000,000		097	000	000	000
099 G98 G00 Z0 = 000,000		098	000	000	000
100 G99 G00 Z0 = 000,000		099	000	000	000

Multi-interface options

Support multi-language interface display, automatic fault alarm, rich in processing information display, processing time, number of pieces.

程序名称	手车	地址	参数	地址	参数
001 G17 G40 G00 = 000,000		000	000	000	000
002 G18 G41 G00 = 000,000		001	000	000	000
003 G19 G42 G00 = 000,000		002	000	000	000
004 G20 G94 G00 = 000,000		003	000	000	000
005 G21 G99 G00 = 000,000		004	000	000	000
006 G40 G00 = 000,000		005	000	000	000
007 G41 G00 = 000,000		006	000	000	000
008 G42 G00 = 000,000		007	000	000	000
009 G54 G00 Z0 = 000,000		008	000	000	000
010 G55 G00 Z0 = 000,000		009	000	000	000
011 G56 G00 Z0 = 000,000		010	000	000	000
012 G57 G00 Z0 = 000,000		011	000	000	000
013 G58 G00 Z0 = 000,000		012	000	000	000
014 G59 G00 Z0 = 000,000		013	000	000	000
015 G64 G00 Z0 = 000,000		014	000	000	000
016 G65 G00 Z0 = 000,000		015	000	000	000
017 G66 G00 Z0 = 000,000		016	000	000	000
018 G67 G00 Z0 = 000,000		017	000	000	000
019 G68 G00 Z0 = 000,000		018	000	000	000
020 G69 G00 Z0 = 000,000		019	000	000	000
021 G70 G00 Z0 = 000,000		020	000	000	000
022 G71 G00 Z0 = 000,000		021	000	000	000
023 G72 G00 Z0 = 000,000		022	000	000	000
024 G73 G00 Z0 = 000,000		023	000	000	000
025 G74 G00 Z0 = 000,000		024	000	000	000
026 G75 G00 Z0 = 000,000		025	000	000	000
027 G76 G00 Z0 = 000,000		026	000	000	000
028 G77 G00 Z0 = 000,000		027	000	000	000
029 G78 G00 Z0 = 000,000		028	000	000	000
030 G79 G00 Z0 = 000,000		029	000	000	000
031 G80 G00 Z0 = 000,000		030	000	000	000
032 G81 G00 Z0 = 000,000		031	000	000	000
033 G82 G00 Z0 = 000,000		032	000	000	000
034 G83 G00 Z0 = 000,000		033	000	000	000
035 G84 G00 Z0 = 000,000		034	000	000	000
036 G85 G00 Z0 = 000,000		035	000	000	000
037 G86 G00 Z0 = 000,000		036	000	000	000
038 G87 G00 Z0 = 000,000		037	000	000	000
039 G88 G00 Z0 = 000,000		038	000	000	000
040 G89 G00 Z0 = 000,000		039	000	000	000
041 G90 G00 Z0 = 000,000		040	000	000	000
042 G91 G00 Z0 = 000,000		041	000	000	000
043 G92 G00 Z0 = 000,000		042	000	000	000
044 G93 G00 Z0 = 000,000		043	000	000	000
045 G94 G00 Z0 = 000,000		044	000	000	000
046 G95 G00 Z0 = 000,000		045	000	000	000
047 G96 G00 Z0 = 000,000		046	000	000	000
048 G97 G00 Z0 = 000,000		047	000	000	000
049 G98 G00 Z0 = 000,000		048	000	000	000
050 G99 G00 Z0 = 000,000		049	000	000	000

程序名称	
------	--

MCK300A

CNC wood processing lathe milling system

Introduction:

Shenzhen Adtech Technology Co., Ltd. specifically for independent research and development of domestic and foreign small machine tool manufacturers cost-effective CNC system. ARM high performance CPU and ultra large scale programmable device FPGA, real-time multi task control and hardware interpolation technology, to ensure that the system m level precision machining of high efficiency. 256M electronic disk to meet the processing of a variety of large programs. 7 inch color display, Chinese and English interface can be chosen by the parameters.



Function Specification

- MCK300A CNC woodworking milling system is based on the development of powerful car Adtech basis.
1. using ARM processor and FPGA high performance motion chip, has excellent stability and reliability.
 2. 7 inch LCD color screen, the display interface is friendly.
 3. Support woodworking milling process, the operation is simple.
 4. Graphic display and processing of real-time tracking function, can be very intuitive display of graphics in the processing file.
 5. The system supports the double knife control, and supports the double knife one time and many times to the reciprocating processing technology, can greatly enhance the efficiency of woodworking lathe milling processing.
 6. DXF directly into the processing function, can simplify the operator's processing file generation process.
 7. Laser scanning is used to generate the machining code directly, which can greatly reduce the requirement of the operator.
 8. USB communication function, support U disk processing file copy and U disk upgrade system, convenient maintenance.
 9. System diagnostic function, the customer can make the diagnosis and treatment of some hardware.

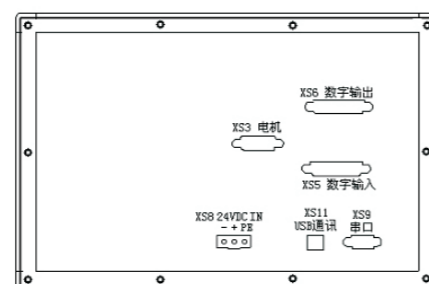
Graphic simulation function

Show the graphics of the processing program and the actual running of the tool path, the tool path in the process of real-time simulation, inspection and preparation of the processing program is correct.



Easy installation

The structure is reliable, all the interfaces are connected by standard DB head.

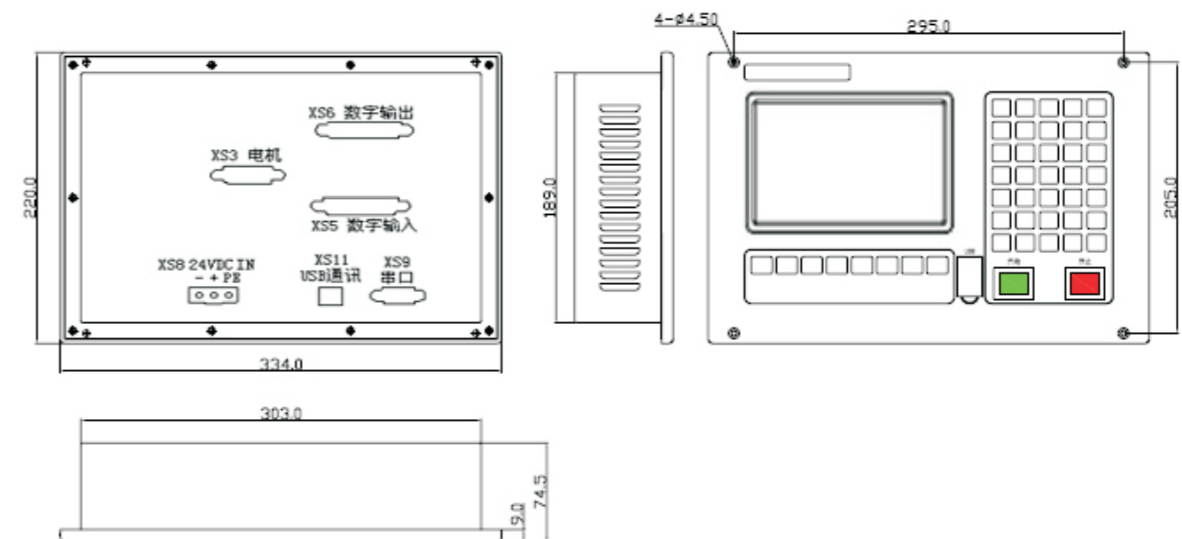


Function introduction

- Double knife features: the double cutter function is to support machine YZ two cutter feeding and feeding control system, MCK300A directly set the function of drawing software, from direct import DXF file to automatically calculate the smatterer set, from from lower professional knowledge to the user's requirements, to good ease of use is favored by the manufacturers and the users.
- Sample scanning function: For finished goods and proofing design usually in cam machining file, no drawings need measurement data of the workpiece and then according to the measured data plotting to guide cam processing file. Operation tedious labor strength and data errors. For there is no design drawings sample proofing fast or production can use scanner function, quick to copy to sample data, the obtained data can directly to the production and processing.
- Support for the reciprocating vehicle of wood column, indexing milling technology;
- Support for real time coordinates, real time graphics and status tracking;
- Support standard G code files;
- Support laser scanning function;
- Support CAD file direct import, teach editing and manual editing;
- Support tool, reverse, return, return function.

Outline dimension chart

Unit: mm



NCT-02

CNC punching machine control system

Introduction:

ADTECH researches and develops high performance CNC punching machine control system specifically for small and medium-sized CNC machine manufacturers. Using ARM high performance CPU and ultra large scale programmable devices FPGA, real time multi task control, high-speed pulse frequency to ensure system high-speed feeding control. Large files and U disk DNC processing, multi-station molding function. 7 inches color high-resolution screen display, display system information abundantly, Chinese and English interface can be selected by the parameters. Applicable to the biaxial flywheel, hydraulic, pneumatic punching machine.



Function Specification

- X, Y two axis micron level interpolation accuracy controlling;
- USB/U dis/RS232COM etc many kinds of communication mode, to help users achieve different data transmission and software upgrades easily;
- Macro variable, macro definition programming, realizing a variety of logical relations. Support macro program with parameters, convenient to the user programming;
- CAD graphics automatic conversion processing program, CAM graphics library function, include a variety of commonly used graphics;
- According to the program code automatically generated processing locus, real-time tracking processing position when processing;
- Breakpoint memory function, can choose from the breakpoint to continue processing under program abnormal circumstances;
- Two axis system match with manual die change of punching machine, system will pause and remind to change die when there is die changing instruction in the procedure;
- Single-punch, continuous, single-stage of a variety of processing methods, oplate automatic relocation, clamp protection zone function;
- The highest fast moving speed reach 60 M/min, the highing feed speed reach 30M/min;
- Servo AB encoder closed-loop control to ensure feeding accuracy;
- Support secondary relocation and clamp giving way function, come true board without dead zone processing;
- Fully compatible with procam CAM software and addition punching machine special compound instruction;
- CAM wizard type punching instruction programming, can directly start punching processing program after filling in hole location information;
- DXF + G code templates graphics analysis, can convert CAD files to processing files directly, no need softdog supporting;
- Support powerful class B macro analysis function, convenient for users to develop their own motion control program;
- Dead point detection, clamps loosen alarming, main motor doesn't open alarming etc richful protection functions;

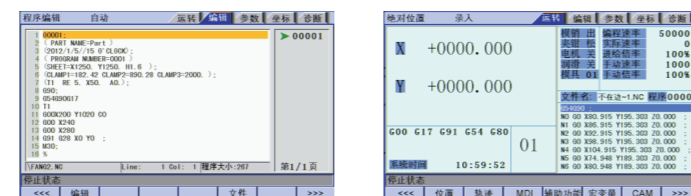
Parameter table

Classified design parameters, input parameter under state of system stopped and entry mode

组合参数	输入	默认	编辑	参数	坐标	诊断
001 刀架参数	1	0113 刀架参数	1000			
002 刀架参数	1	0114 刀架参数	1000			
003 刀架参数	1	0115 刀架参数	1000			
004 刀架参数	1	0116 刀架参数	1000			
005 刀架参数	1	0117 刀架参数	1000			
006 刀架参数	1	0118 刀架参数	1000			
007 刀架参数	1	0119 刀架参数	1000			
008 刀架参数	1	0120 刀架参数	1000			
009 刀架参数	1	0121 刀架参数	1000			
010 刀架参数	1	0122 刀架参数	1000			
011 刀架参数	1	0123 刀架参数	1000			
012 刀架参数	1	0124 刀架参数	1000			
013 刀架参数	1	0125 刀架参数	1000			
014 刀架参数	1	0126 刀架参数	1000			
015 刀架参数	1	0127 刀架参数	1000			
016 刀架参数	1	0128 刀架参数	1000			
017 刀架参数	1	0129 刀架参数	1000			
018 刀架参数	1	0130 刀架参数	1000			
019 刀架参数	1	0131 刀架参数	1000			
020 刀架参数	1	0132 刀架参数	1000			
021 刀架参数	1	0133 刀架参数	1000			
022 刀架参数	1	0134 刀架参数	1000			
023 刀架参数	1	0135 刀架参数	1000			
024 刀架参数	1	0136 刀架参数	1000			
025 刀架参数	1	0137 刀架参数	1000			
026 刀架参数	1	0138 刀架参数	1000			
027 刀架参数	1	0139 刀架参数	1000			
028 刀架参数	1	0140 刀架参数	1000			
029 刀架参数	1	0141 刀架参数	1000			
030 刀架参数	1	0142 刀架参数	1000			
031 刀架参数	1	0143 刀架参数	1000			
032 刀架参数	1	0144 刀架参数	1000			
033 刀架参数	1	0145 刀架参数	1000			
034 刀架参数	1	0146 刀架参数	1000			
035 刀架参数	1	0147 刀架参数	1000			
036 刀架参数	1	0148 刀架参数	1000			
037 刀架参数	1	0149 刀架参数	1000			
038 刀架参数	1	0150 刀架参数	1000			
039 刀架参数	1	0151 刀架参数	1000			
040 刀架参数	1	0152 刀架参数	1000			
041 刀架参数	1	0153 刀架参数	1000			
042 刀架参数	1	0154 刀架参数	1000			
043 刀架参数	1	0155 刀架参数	1000			
044 刀架参数	1	0156 刀架参数	1000			
045 刀架参数	1	0157 刀架参数	1000			
046 刀架参数	1	0158 刀架参数	1000			
047 刀架参数	1	0159 刀架参数	1000			
048 刀架参数	1	0160 刀架参数	1000			
049 刀架参数	1	0161 刀架参数	1000			
050 刀架参数	1	0162 刀架参数	1000			
051 刀架参数	1	0163 刀架参数	1000			
052 刀架参数	1	0164 刀架参数	1000			
053 刀架参数	1	0165 刀架参数	1000			
054 刀架参数	1	0166 刀架参数	1000			
055 刀架参数	1	0167 刀架参数	1000			
056 刀架参数	1	0168 刀架参数	1000			
057 刀架参数	1	0169 刀架参数	1000			
058 刀架参数	1	0170 刀架参数	1000			
059 刀架参数	1	0171 刀架参数	1000			
060 刀架参数	1	0172 刀架参数	1000			
061 刀架参数	1	0173 刀架参数	1000			
062 刀架参数	1	0174 刀架参数	1000			
063 刀架参数	1	0175 刀架参数	1000			
064 刀架参数	1	0176 刀架参数	1000			
065 刀架参数	1	0177 刀架参数	1000			
066 刀架参数	1	0178 刀架参数	1000			
067 刀架参数	1	0179 刀架参数	1000			
068 刀架参数	1	0180 刀架参数	1000			
069 刀架参数	1	0181 刀架参数	1000			
070 刀架参数	1	0182 刀架参数	1000			
071 刀架参数	1	0183 刀架参数	1000			
072 刀架参数	1	0184 刀架参数	1000			
073 刀架参数	1	0185 刀架参数	1000			
074 刀架参数	1	0186 刀架参数	1000			
075 刀架参数	1	0187 刀架参数	1000			
076 刀架参数	1	0188 刀架参数	1000			
077 刀架参数	1	0189 刀架参数	1000			
078 刀架参数	1	0190 刀架参数	1000			
079 刀架参数	1	0191 刀架参数	1000			
080 刀架参数	1	0192 刀架参数	1000			
081 刀架参数	1	0193 刀架参数	1000			
082 刀架参数	1	0194 刀架参数	1000			
083 刀架参数	1	0195 刀架参数	1000			
084 刀架参数	1	0196 刀架参数	1000			
085 刀架参数	1	0197 刀架参数	1000			
086 刀架参数	1	0198 刀架参数	1000			
087 刀架参数	1	0199 刀架参数	1000			
088 刀架参数	1	0200 刀架参数	1000			
089 刀架参数	1	0201 刀架参数	1000			
090 刀架参数	1	0202 刀架参数	1000			
091 刀架参数	1	0203 刀架参数	1000			
092 刀架参数	1	0204 刀架参数	1000			
093 刀架参数	1	0205 刀架参数	1000			
094 刀架参数	1	0206 刀架参数	1000			
095 刀架参数	1	0207 刀架参数	1000			
096 刀架参数	1	0208 刀架参数	1000			
097 刀架参数	1	0209 刀架参数	1000			
098 刀架参数	1	0210 刀架参数	1000			
099 刀架参数	1	0211 刀架参数	1000			
100 刀架参数	1	0212 刀架参数	1000			

Multi-interface options

Multi interface selection: System interface richful, real-time display system statement, fault message



Graphic simulation function

Preview shows the processing program of punching shape and punching shape of real time progressing before system starting, to inspection if processing program is correct or not.



Die management

System built-in multistation die management, modify mould number according to the demand of equipment.

工位	角度	直径	形状	是否转模	X尺寸	Y尺寸
1 (T1)	0.000	10.000	0.000 0		10.000	10.000
2 (T2)	0.000	10.000	0.000 0		10.000	10.000
3 (T3)	0.000	10.000	0.000 0		10.000	10.000
4 (T4)	0.000	10.000	0.000 0		10.000	10.000
5 (T5)	0.000	10.000	0.000 0		10.000	10.000
6 (T6)	0.000	10.000	0.000 0		10.000	10.000
7 (T7)	0.000	10.000	0.000 0		10.000	10.000
8 (T8)	0.000	10.000	0.000 0		10.000	10.000
9 (T9)	0.000	10.000	0.000 0		10.000	10.000
10 (T10)	0.000	10.000	0.000 0		10.000	10.000

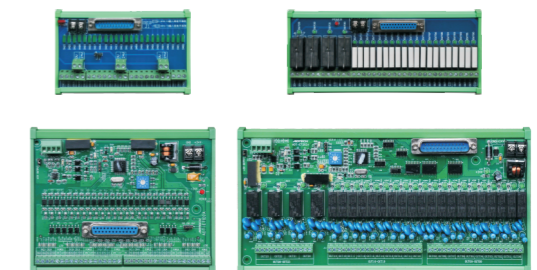
Additional Accessories



Additional Panel



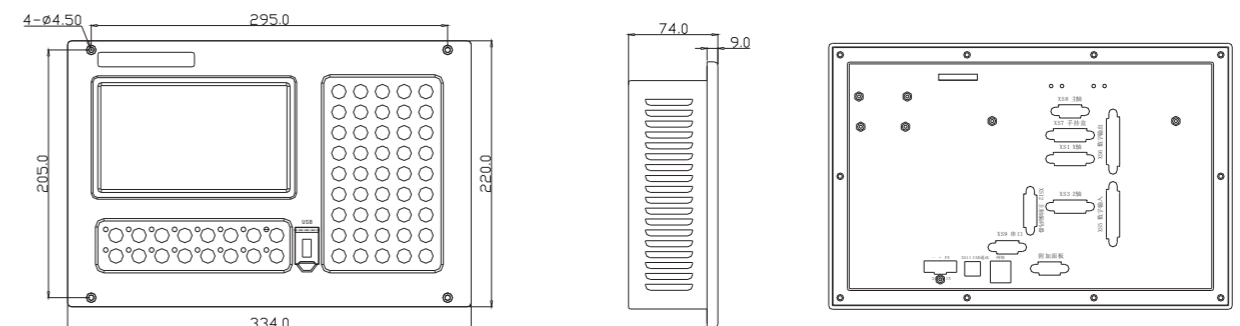
Connection box



Input/Output Splitter

Dimension figure

Unit: (mm)



NCT-03

CNC punching machine control system

Introduction:

ADTECH researches and develops high performance CNC punching machine control system specifically for small and medium-sized CNC machine manufacturers. Using ARM high performance CPU and ultra large scale programmable devices FPGA, real time multi task control, high-speed pulse frequency to ensure system high-speed feeding control. Large files and U disk DNC processing, multi-station molding function. 7 inches color high-resolution screen display, display system information abundantly, Chinese and English interface can be selected by the parameters. Applicable to the biaxial flywheel, hydraulic, pneumatic punching machine.



Function Specification

- X, Y, Z three axis micron level interpolation accuracy controlling;
- USB/U dis/RS232COM etc many kinds of communication mode, to help users achieve different data transmission and software upgrades easily.
- CAD graphics automatic conversion processing program, CAM graphics library function, include a variety of commonly used graphics.
- Breakpoint memory function, can choose from the breakpoint to continue processing under program abnormal circumstances .
- Single-punch, continuous, single-stage of a variety of processing methods, oplate automatic relocation, clamp protection zone function.
- With input/output module, available to extend I/O count.
- The highest fast moving speed reach 60 M/min, the highing feed speed reach 30M/min.
- Servo AB encoder closed-loop control to ensure feeding accuracy.
- Outage saving function, password protection function, screen protection function, etc.
- Die T axis offset compensation function
- Fully compatible with procam CAM software and addition punching machine special compound instruction.
- CAM wizard type punching instruction programming, can directly start punching processing program after filling in hole location information.
- DXF + G code templates graphics analysis, can convert CAD files to processing files directly, no need softdog supporting.
- Available to preview processing code graphics, real-time tracking processing locus during processing.
- Support powerful class B macro analysis function, convenient for users to develop their own motion control program.
- Dead point detection, clamps loosen alarming, main motor doesn't open alarming etc richful protection functions.

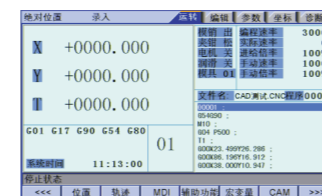
Parameter table

Classified design parameters, input parameter under state of system stopped and entry mode

综合参数	录入	名称	单位	默认值
001 主轴转速 (mm/min)	1	013 主轴转速 (mm/min)	1000	1000
002 进给速度 (mm/min)	1	014 进给速度 (mm/min)	1000	1000
003 快速进给速度 (mm/min)	1	015 快速进给速度 (mm/min)	1000	1000
004 快速进给速度 (mm/min)	1	016 快速进给速度 (mm/min)	1000	1000
005 快速进给速度 (mm/min)	1	017 快速进给速度 (mm/min)	1000	1000
006 快速进给速度 (mm/min)	1	018 快速进给速度 (mm/min)	1000	1000
007 快速进给速度 (mm/min)	1	019 快速进给速度 (mm/min)	1000	1000
008 快速进给速度 (mm/min)	1	020 快速进给速度 (mm/min)	1000	1000
009 快速进给速度 (mm/min)	1	021 快速进给速度 (mm/min)	1000	1000
010 快速进给速度 (mm/min)	1	022 快速进给速度 (mm/min)	1000	1000
011 快速进给速度 (mm/min)	1	023 快速进给速度 (mm/min)	1000	1000
012 快速进给速度 (mm/min)	1	024 快速进给速度 (mm/min)	1000	1000

Multi-interface options

Multi interface selection: System interface richful, real-time display system statement, fault message



Graphic simulation function

Preview shows the processing program of punching shape and punching shape of real time progressing before system starting, to inspection if processing program is correct or not.



Die management

System built-in multistation die management, modify mould number according to the demand of equipment.

工位	角度	直径	形状	是否转模	X尺寸	Y尺寸
1 (T1)	0.000	10.000	0.000 0		10.000	10.000
2 (T2)	0.000	10.000	0.000 0		10.000	10.000
3 (T3)	0.000	10.000	0.000 0		10.000	10.000
4 (T4)	0.000	10.000	0.000 0		10.000	10.000
5 (T5)	0.000	10.000	0.000 0		10.000	10.000
6 (T6)	0.000	10.000	0.000 0		10.000	10.000
7 (T7)	0.000	10.000	0.000 0		10.000	10.000
8 (T8)	0.000	10.000	0.000 0		10.000	10.000
9 (T9)	0.000	10.000	0.000 0		10.000	10.000
10 (T10)	0.000	10.000	0.000 0		10.000	10.000

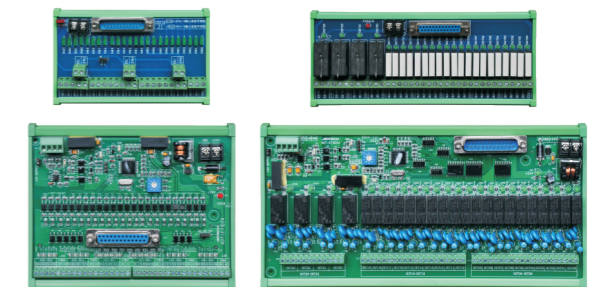
Additional Accessories



Additional Panel



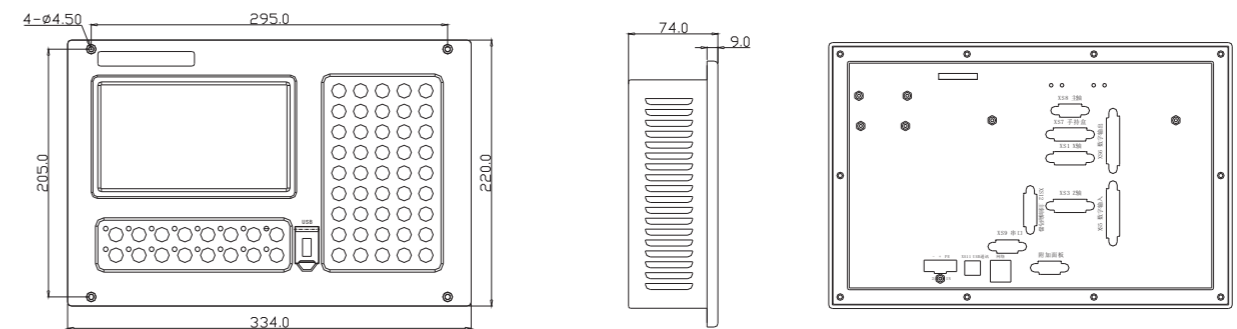
Connection box



Input/Output Splitter

Dimension figure

Unit: (mm)



NCT-04

CNC punching control system

Introduction:

Shenzhen Adtech Technology Co., Ltd. specifically for independent research and development of domestic and foreign small machine tool manufacturers cost-effective punching system. Adopts the ARM CPU and large scale programmable devices of high performance FPGA, real-time multitasking control, high-speed pulse frequency to ensure high-speed feeding control system. Large files and U disk DNC machining, multi-station die functions. 7 inches color high-resolution screen display, display system information, rich interface can be made of parameter selection in both Chinese and English. Suitable for two - axis punch feed, three - axis die base function, four - axis die rotary function of flywheel, hydraulic press and pneumatic punch.



Function Specification

- Control axis number X, Y, T, C four axis micron level interpolation accuracy;
- USB, U disk, RS232COM communications and other communication methods, easy to help users to achieve different data transmission requirements and software upgrades;
- Perfect self diagnosis function, internal and external status real-time display, abnormal immediately alarm;
- CAD graphics automatic conversion processing procedures, CAM graphics library functions, there are a variety of commonly used graphics;
- According to the program code automatically generated processing track, machining process to track the actual location;
- Breakpoint memory function, program exceptions can be selected from the breakpoint to continue processing;
- Two hand punching machine die change system, when the program is for instructions and prompts the system to suspend mode need to replace the mold;
- Mold rotating function, you can press the complex shape, automatic angle optimization;
- With input / output module, I/O points can be extended;
- Maximum fast moving speed up to 60 m / min, the maximum feed rate of up to 30 m / min;
- Power save function, password protected screen saver function etc.
- Support two relocation function and clamp avoidance function, realize the plate without dead time processing.
- Fully compatible with CAM and other PROCAM software, and additional punch special composite directive
- CAM wizard punching instruction programming, can be directly used to fill in the hole information directly to start processing for punching;
- DXF+G code template graphics resolution, can be directly converted to CAD files for processing files, without the need to encrypt the dog support;
- Support the powerful B macro analysis function, to facilitate users to develop their own motion control program.

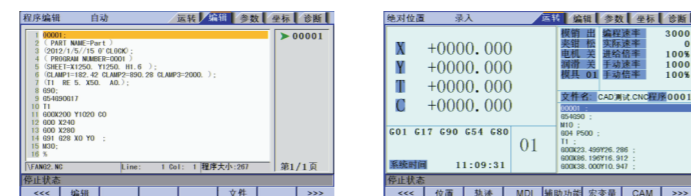
Parameter table

Classified design parameters, input parameter under state of system stopped and entry mode

名称参数	录入	单位	默认	范围	注释
001 坐标轴分辨率	1	0.001	微米	0.001-1000	
002 坐标轴分辨率	1	0.001	微米	0.001-1000	
003 坐标轴分辨率	1	0.001	微米	0.001-1000	
004 坐标轴分辨率	1	0.001	微米	0.001-1000	
005 坐标轴分辨率	1	0.001	微米	0.001-1000	
006 坐标轴分辨率	1	0.001	微米	0.001-1000	
007 坐标轴分辨率	1	0.001	微米	0.001-1000	
008 坐标轴分辨率	1	0.001	微米	0.001-1000	
009 坐标轴分辨率	1	0.001	微米	0.001-1000	
010 坐标轴分辨率	1	0.001	微米	0.001-1000	
011 坐标轴分辨率	1	0.001	微米	0.001-1000	
012 坐标轴分辨率	1	0.001	微米	0.001-1000	

Multi-interface options

Multi interface selection: System interface richful, real-time display system statement, fault message



Graphic simulation function

Preview shows the processing program of punching shape and punching shape of real time progressing before system starting, to inspection if processing program is correct or not.



Die management

System built-in multistation die management, modify mould number according to the demand of equipment.

工位	角度	直径	形状	是否转模	X尺寸	Y尺寸
1 (T1)	0.000	10.000	0.000 0		10.000	10.000
2 (T2)	0.000	10.000	0.000 0		10.000	10.000
3 (T3)	0.000	10.000	0.000 0		10.000	10.000
4 (T4)	0.000	10.000	0.000 0		10.000	10.000
5 (T5)	0.000	10.000	0.000 0		10.000	10.000
6 (T6)	0.000	10.000	0.000 0		10.000	10.000
7 (T7)	0.000	10.000	0.000 0		10.000	10.000
8 (T8)	0.000	10.000	0.000 0		10.000	10.000
9 (T9)	0.000	10.000	0.000 0		10.000	10.000
10 (T10)	0.000	10.000	0.000 0		10.000	10.000

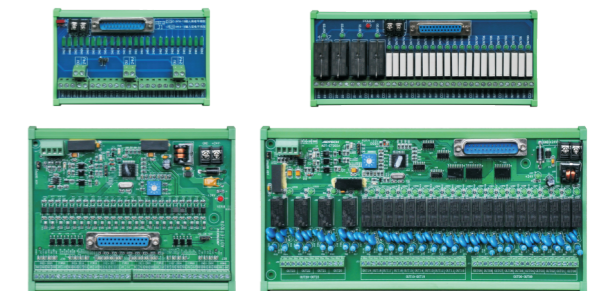
Additional Accessories



Additional Panel



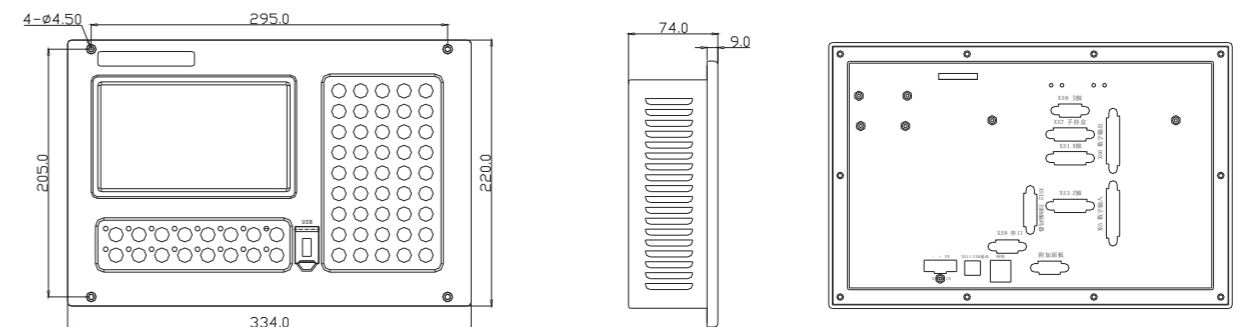
Connection box



Input/Output Splitter

Dimension figure

Unit: (mm)



DK300A

3 axis CNC engraving controller

Introduction:

Adtech Shenzhen Technology Co., Ltd. specifically for domestic and foreign manufacturers of independent research and development of small and medium sized machine tool numerical control system cost-effective

Adopts ARM high performance CPU and super-large-scale programmable device FPGA, real-time multitasking control and hardware interpolation technology to ensure high system efficiency μm -level precision machining under.

256M electronic program meet a variety of large workpieces. 7-inch color display, English interface by the parameters; Built-in 8G storage space for large-scale relief document processing and storage.



Function Specification

- Controlled axes X, Y, Z-axis μm level interpolation precision;
- You can configure the stepper, servo drives according to different user needs and achieve cost-effective.
- Means of communication USB, U disk, RS232COM communications, to help users easily implement different data transmission requirements and software upgrades.
- With a network interface, support for remote monitoring and DNC file transfer process.
- Open platform, the system can be customized according to customer demand for the plane.
- Improve self-diagnostic function, the internal and external displays real-time status, abnormal alarm immediately
- Additional support for external panels, handheld box operation, convenient customer knife.
- Macro variables, macro definition programming, a variety of logic. Support with parameter macro program call, allowing users to program more convenient.
- DXF + G code template function, the PDF automatically converted to G-code processing.
- Support MasterCAM, TYPE3, ArtCAM software to generate the processing files;
- High-speed intelligent motion processing speed pretreatment, smooth processing;
- Maximum rapid traverse up to 60 m / min, the maximum feed rate of up to 30 m / min;
- Frequently used functions easy to use graphical programming
- With automatic, the instrument on the knife, and other ways of knife;

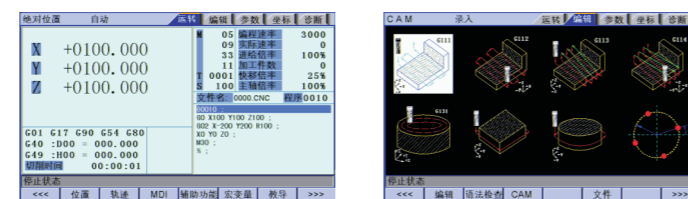
Parameter table

Design parameters are classified, the system stops at state and input parameter entry mode.

综合参数	自动模式	机床	程序	参数	坐标	诊断
001 X轴每分进给量	1	013 X轴每分进给量 (mm/min)	100			
002 Y轴每分进给量	1	014 Y轴每分进给量 (mm/min)	100			
003 Z轴每分进给量	1	015 Z轴每分进给量 (mm/min)	100			
004 X轴每分进给量	1	016 X轴每分进给量 (mm/min)	100			
005 Y轴每分进给量	1	017 Y轴每分进给量 (mm/min)	1000			
006 Z轴每分进给量	1	018 Z轴每分进给量 (mm/min)	1000			
007 X轴每分进给量	1	019 X轴每分进给量 (mm/min)	1000			
008 Y轴每分进给量	1	020 Y轴每分进给量 (mm/min)	1000			
009 X轴每分进给量	3000	021 X轴每分进给量 (mm/min)	9999.999			
010 Y轴每分进给量	3000	022 Y轴每分进给量 (mm/min)	9999.999			
011 Z轴每分进给量	3000	023 Z轴每分进给量 (mm/min)	9999.999			
012 X轴每分进给量	3000	024 X轴每分进给量 (mm/min)	9999.999			

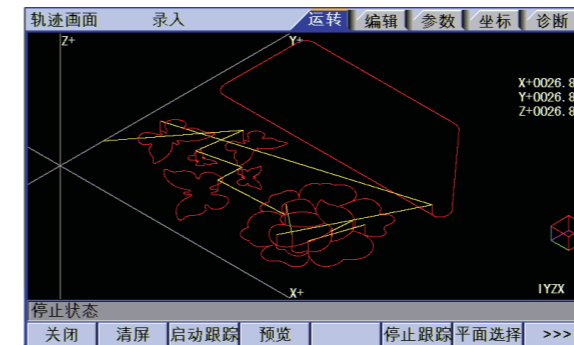
Multi-interface options

Rich system interface, real-time display system status and fault information.



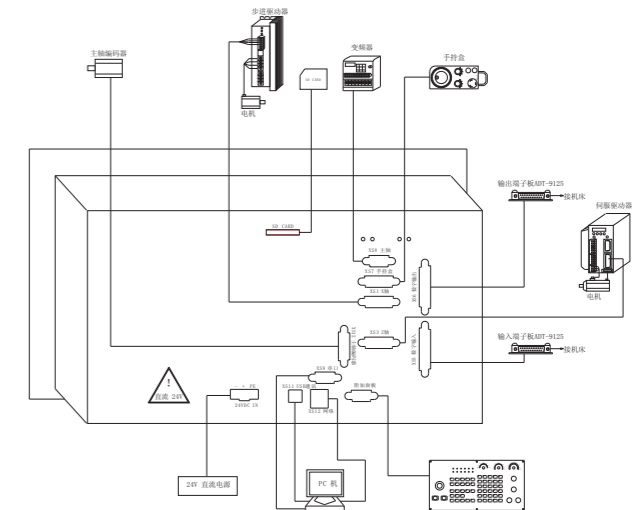
Graphic simulation function

Punch can be started before the system displays the press preview of the shape of the machining program and the actual processing time Pressure shapes, inspection procedures machining program is correct.



Easy Installation

Reliable structure, all interfaces are standard DB connector

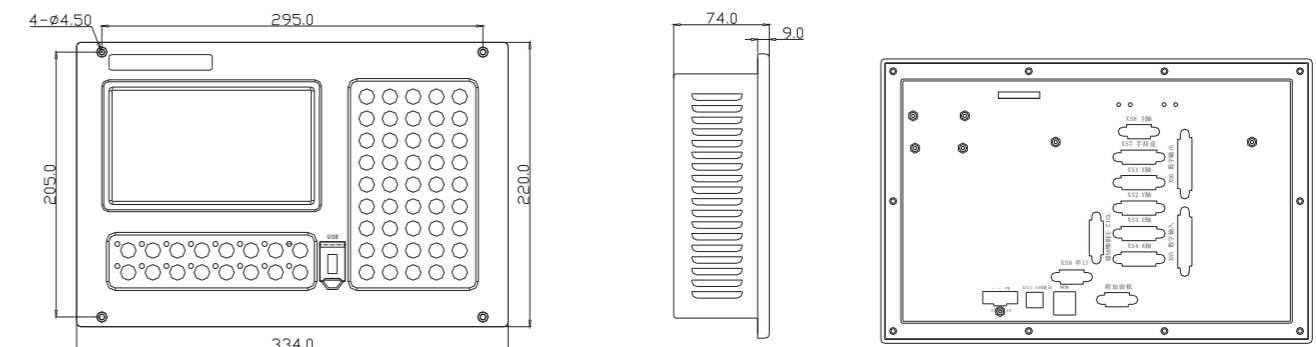


Additional Accessories



Dimension figure

Unit: (mm)



DK400A

4 axis CNC engraving controller

Introduction:

Adtech Shenzhen Technology Co., Ltd. specifically for domestic and foreign manufacturers of independent research and development of small and medium sized machine tool numerical control system cost-effective

Adopts ARM high performance CPU and super-large-scale programmable device FPGA, real-time multitasking control and hardware interpolation technology to ensure high system efficiency μ m-level precision machining under.

256M electronic program meet a variety of large workpieces.

7-inch color display, English interface by the parameters;
Built-in 8G storage space for large-scale relief document processing and storage.



Function Specification

- Controlled axes X, Y, A, Z-axis μ m level interpolation precision;
- You can configure the stepper, servo drives according to different user needs and achieve cost-effective.
- Means of communication USB, U disk, RS232COM communications, to help users easily implement different data transmission requirements and software upgrades.
- With a network interface, support for remote monitoring and DNC file transfer process.
- Open platform, the system can be customized according to customer demand for the plane.
- Improve self-diagnostic function, the internal and external displays real-time status, abnormal alarm immediately
- Additional support for external panels, handheld box operation, convenient customer knife.
- Macro variables, macro definition programming, a variety of logic. Support with parameter macro program call, allowing users to program more convenient.
- DXF + G code template function, the PDF automatically converted to G-code processing.
- Support MasterCAM, TYPE3, ArtCAM software to generate the processing files;
- High-speed intelligent motion processing speed pretreatment, smooth processing;
- Maximum rapid traverse up to 60 m / min, the maximum feed rate of up to 30 m / min;
- Frequently used functions easy to use graphical programming
- with automatic, the instrument on the knife, and other ways of knife;

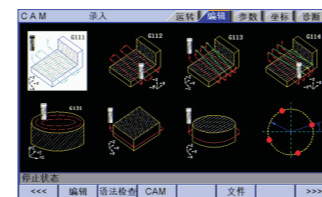
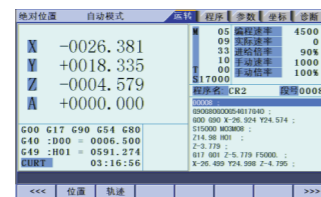
Parameter table

Design parameters are classified, the system stops at state and input parameter entry mode.

综合参数	自动模式	编辑	程序	参数	坐标	诊断
001 X轴每分进给量	1	013 X轴每分进给量(mm/min)	1000			
002 Y轴每分进给量	1	014 Y轴每分进给量(mm/min)	1000			
003 Z轴每分进给量	1	015 Z轴每分进给量(mm/min)	1000			
004 A轴每分进给量	1	016 A轴每分进给量(mm/min)	1000			
005 X轴每分进给量	1	017 X轴每分进给量(mm/min)	1000			
006 Y轴每分进给量	1	018 Y轴每分进给量(mm/min)	1000			
007 Z轴每分进给量	1	019 Z轴每分进给量(mm/min)	1000			
008 A轴每分进给量	1	020 A轴每分进给量(mm/min)	1000			
009 X轴每分进给量	3000	021 X轴每分进给量(mm)	1000			
010 Y轴每分进给量	3000	022 Y轴每分进给量(mm)	1000			
011 Z轴每分进给量	3000	023 Z轴每分进给量(mm)	1000			
012 A轴每分进给量	3000	024 A轴每分进给量(mm)	1000			

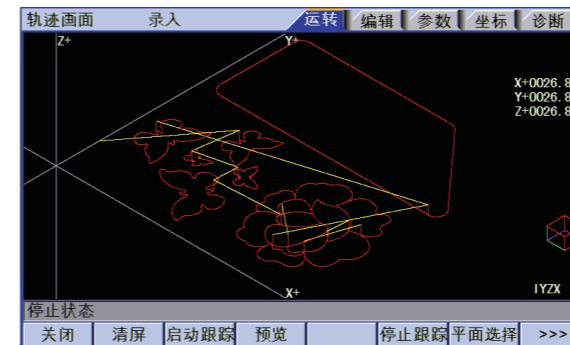
Multi-interface options

Rich system interface, real-time display system status and fault information.



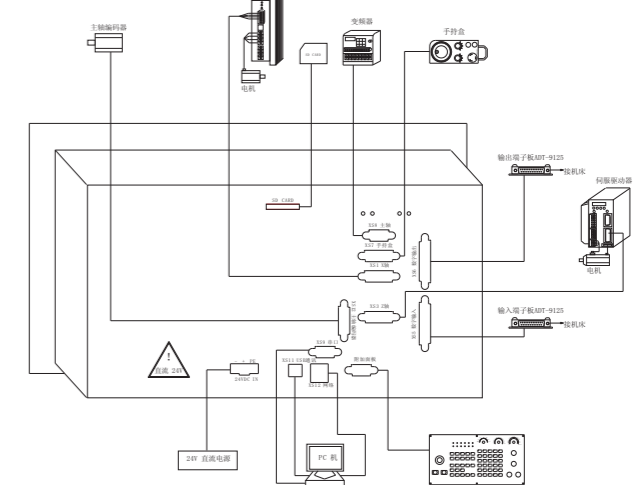
Graphic simulation function

Punch can be started before the system displays the press preview of the shape of the machining program and the actual processing time Pressure shapes, inspection procedures machining program is correct.



Easy Installation

Reliable structure, all interfaces are standard DB connector

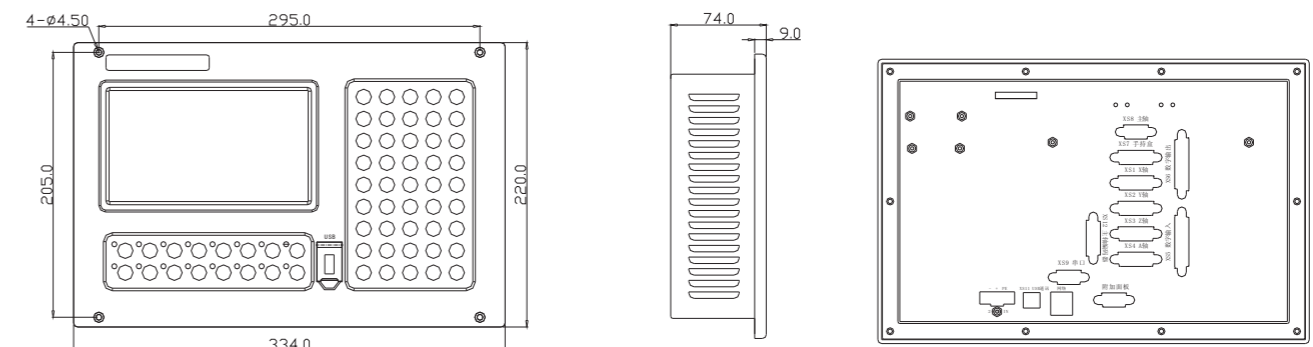


Additional Accessories



Dimension figure

Unit: (mm)



CNC4980

Eight-axis numerical control system

Introduction:

ADTECH(Shenzhen) Technology Co.,Ltd specifically designed for domestic and foreign small and medium machines tool manufacturers developed high performance numerical control system. Using the ARM CPU and high performance large scale programmable device FPGA, Real-time multitask control and hardware interpolation technology, ensure the μm precision processing. DNC online transfers features to meet a variety of large file processing. Display 10.4-inch color display screen, English interface can be selected by the parameter. Applicable to various types of milling , machining center machine, non-standard machinery and other Numerical control of machinery in the area of application.



Function Specification

- Controlled axes x, y, z, a, b, c, 7th, 8th, 8-axis interpolation Micron accuracy
- Maximum 6 channels can be controlled, 6 feed axis and 1 spindle motor;
- USB, USB flash drive, RS232COM communications and other means of communication, easily help users achieve different data transmission requirements and software upgrades
- Network interface to support remote monitoring and DNC file transfer process;
- Open platform that can be customized based on client demand system here;
- Perfect self-diagnosis function, internal and external port statistics, exception occurred, police immediately;
- Supports additional Panel, handheld box operation, user-friendly tool
- Macro variables, define a macro programming, multiple logical relations. Support a macro call with parameters, making users more convenient;
- Built-in programmable motion control modules, fully compatible with ICE61131-3 standards;
- With RS485 bus extension to support IO extension, input/output, maximum 240 points;
- U disk read function can be modeled as electronic data read from the hard drive, editing and processing, to meet a variety of large programs workpiece machining
- Powerful network functions, can achieve-Internet, real-time monitoring through the computer system;
- Adopting international standard g-code, with large storage space, support for multiplefiles with large file processing and storage;
- Support powerful class b macro to resolve functions, easy for users to develop their own sports program
- With synchronous control feature, two-motor synchronous driving;
- Forward-looking and path smoothing algorithm for up to 2000 period, support for NURBS spline interpolation.

Parameter table

Input and output address arbitrarily set, only need to address bar to fill in the corresponding data in the configuration table.

程序参数	手动	地址	数值	单位	注释
001 机床名称 (machine)	000	01.07.24	机床	1000	
002 机床编号 (machine)	000	01.07.24	机床	1000	
003 机床地址 (machine)	000	01.07.24	机床	1000	
004 机床厂家 (machine)	000	01.07.24	机床	1000	
005 机床型号 (machine)	000	01.07.24	机床	1000	
006 机床重量 (machine)	000	01.07.24	机床	1000	
007 机床功率 (machine)	000	01.07.24	机床	1000	
008 机床速度 (machine)	000	01.07.24	机床	1000	
009 机床精度 (machine)	000	01.07.24	机床	1000	
010 机床寿命 (machine)	000	01.07.24	机床	1000	
011 机床维护 (machine)	000	01.07.24	机床	1000	
012 机床报警 (machine)	000	01.07.24	机床	1000	
013 机床启动 (machine)	000	01.07.24	机床	1000	
014 机床停止 (machine)	000	01.07.24	机床	1000	
015 机床急停 (machine)	000	01.07.24	机床	1000	
016 机床复位 (machine)	000	01.07.24	机床	1000	
017 机床回零 (machine)	000	01.07.24	机床	1000	
018 机床换刀 (machine)	000	01.07.24	机床	1000	
019 机床冷却 (machine)	000	01.07.24	机床	1000	
020 机床润滑 (machine)	000	01.07.24	机床	1000	
021 机床排屑 (machine)	000	01.07.24	机床	1000	
022 机床吸尘 (machine)	000	01.07.24	机床	1000	
023 机床照明 (machine)	000	01.07.24	机床	1000	
024 机床风扇 (machine)	000	01.07.24	机床	1000	
025 机床报警清除 (machine)	000	01.07.24	机床	1000	
026 机床报警清除 (machine)	000	01.07.24	机床	1000	
027 机床报警清除 (machine)	000	01.07.24	机床	1000	
028 机床报警清除 (machine)	000	01.07.24	机床	1000	
029 机床报警清除 (machine)	000	01.07.24	机床	1000	
030 机床报警清除 (machine)	000	01.07.24	机床	1000	
031 机床报警清除 (machine)	000	01.07.24	机床	1000	
032 机床报警清除 (machine)	000	01.07.24	机床	1000	
033 机床报警清除 (machine)	000	01.07.24	机床	1000	
034 机床报警清除 (machine)	000	01.07.24	机床	1000	
035 机床报警清除 (machine)	000	01.07.24	机床	1000	
036 机床报警清除 (machine)	000	01.07.24	机床	1000	
037 机床报警清除 (machine)	000	01.07.24	机床	1000	
038 机床报警清除 (machine)	000	01.07.24	机床	1000	
039 机床报警清除 (machine)	000	01.07.24	机床	1000	
040 机床报警清除 (machine)	000	01.07.24	机床	1000	
041 机床报警清除 (machine)	000	01.07.24	机床	1000	
042 机床报警清除 (machine)	000	01.07.24	机床	1000	
043 机床报警清除 (machine)	000	01.07.24	机床	1000	
044 机床报警清除 (machine)	000	01.07.24	机床	1000	
045 机床报警清除 (machine)	000	01.07.24	机床	1000	
046 机床报警清除 (machine)	000	01.07.24	机床	1000	
047 机床报警清除 (machine)	000	01.07.24	机床	1000	
048 机床报警清除 (machine)	000	01.07.24	机床	1000	
049 机床报警清除 (machine)	000	01.07.24	机床	1000	
050 机床报警清除 (machine)	000	01.07.24	机床	1000	
051 机床报警清除 (machine)	000	01.07.24	机床	1000	
052 机床报警清除 (machine)	000	01.07.24	机床	1000	
053 机床报警清除 (machine)	000	01.07.24	机床	1000	
054 机床报警清除 (machine)	000	01.07.24	机床	1000	
055 机床报警清除 (machine)	000	01.07.24	机床	1000	
056 机床报警清除 (machine)	000	01.07.24	机床	1000	
057 机床报警清除 (machine)	000	01.07.24	机床	1000	
058 机床报警清除 (machine)	000	01.07.24	机床	1000	
059 机床报警清除 (machine)	000	01.07.24	机床	1000	
060 机床报警清除 (machine)	000	01.07.24	机床	1000	
061 机床报警清除 (machine)	000	01.07.24	机床	1000	
062 机床报警清除 (machine)	000	01.07.24	机床	1000	
063 机床报警清除 (machine)	000	01.07.24	机床	1000	
064 机床报警清除 (machine)	000	01.07.24	机床	1000	
065 机床报警清除 (machine)	000	01.07.24	机床	1000	
066 机床报警清除 (machine)	000	01.07.24	机床	1000	
067 机床报警清除 (machine)	000	01.07.24	机床	1000	
068 机床报警清除 (machine)	000	01.07.24	机床	1000	
069 机床报警清除 (machine)	000	01.07.24	机床	1000	
070 机床报警清除 (machine)	000	01.07.24	机床	1000	
071 机床报警清除 (machine)	000	01.07.24	机床	1000	
072 机床报警清除 (machine)	000	01.07.24	机床	1000	
073 机床报警清除 (machine)	000	01.07.24	机床	1000	
074 机床报警清除 (machine)	000	01.07.24	机床	1000	
075 机床报警清除 (machine)	000	01.07.24	机床	1000	
076 机床报警清除 (machine)	000	01.07.24	机床	1000	
077 机床报警清除 (machine)	000	01.07.24	机床	1000	
078 机床报警清除 (machine)	000	01.07.24	机床	1000	
079 机床报警清除 (machine)	000	01.07.24	机床	1000	
080 机床报警清除 (machine)	000	01.07.24	机床	1000	
081 机床报警清除 (machine)	000	01.07.24	机床	1000	
082 机床报警清除 (machine)	000	01.07.24	机床	1000	
083 机床报警清除 (machine)	000	01.07.24	机床	1000	
084 机床报警清除 (machine)	000	01.07.24	机床	1000	
085 机床报警清除 (machine)	000	01.07.24	机床	1000	
086 机床报警清除 (machine)	000	01.07.24	机床	1000	
087 机床报警清除 (machine)	000	01.07.24	机床	1000	
088 机床报警清除 (machine)	000	01.07.24	机床	1000	
089 机床报警清除 (machine)	000	01.07.24	机床	1000	
090 机床报警清除 (machine)	000	01.07.24	机床	1000	
091 机床报警清除 (machine)	000	01.07.24	机床	1000	
092 机床报警清除 (machine)	000	01.07.24	机床	1000	
093 机床报警清除 (machine)	000	01.07.24	机床	1000	
094 机床报警清除 (machine)	000	01.07.24	机床	1000	
095 机床报警清除 (machine)	000	01.07.24	机床	1000	
096 机床报警清除 (machine)	000	01.07.24	机床	1000	
097 机床报警清除 (machine)	000	01.07.24	机床	1000	
098 机床报警清除 (machine)	000	01.07.24	机床	1000	
099 机床报警清除 (machine)	000	01.07.24	机床	1000	
100 机床报警清除 (machine)	000	01.07.24	机床	1000	

Multi-interface options

Support multi-language interface display, automatic fault alarm, rich in processing information display, processing time, number of pieces.

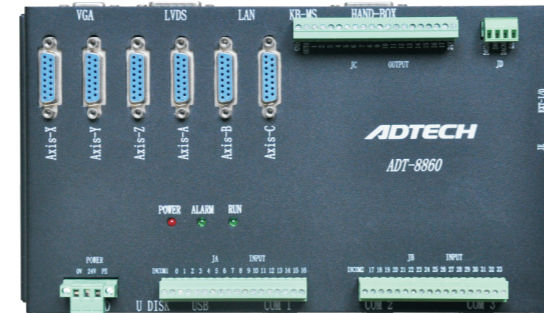
程序参数	手动	地址	数值	单位	注释
001 机床名称 (machine)	000	01.07.24	机床	1000	
002 机床编号 (machine)	000	01.07.24	机床	1000	
003 机床地址 (machine)	000	01.07.24	机床	1000	
004 机床厂家 (machine)	000	01.07.24	机床	1000	
005 机床型号 (machine)	000	01.07.24	机床	1000	
006 机床重量 (machine)	000	01.07.24	机床	1000	
007 机床功率 (machine)	000	01.07.24	机床	1000	
008 机床速度 (machine)	000	01.07.24	机床	1000	
009 机床精度 (machine)	000	01.07.24	机床	1000	
010 机床寿命 (machine)	000	01.07.24	机床	1000	
011 机床维护 (machine)	000	01.07.24	机床	1000	
012 机床报警 (machine)	000	01.07.24	机床	1000	
013 机床启动 (machine)	000	01.07.24	机床	1000	
014 机床停止 (machine)	000	01.07.24	机床	1000	
015 机床急停 (machine)	000	01.07.24	机床	1000	
016 机床复位 (machine)	000	01.07.24	机床	1000	
017 机床回零 (machine)	000	01.07.24	机床	1000	
018 机床换刀 (machine)	000	01.07.24	机床	1000	
019 机床冷却 (machine)	000	01.07.24	机床	1000	
020 机床润滑 (machine)	000	01.07.24	机床	1000	
021 机床排屑 (machine)	000	01.07.24	机床	1000	
022 机床吸尘 (machine)	000	01.07.24	机床	1000	
023 机床照明 (machine)	000	01.07.24	机床	1000	
024 机床风扇 (machine)	000	01.07.24	机床	1000	
025 机床报警清除 (machine)	000	01.07.24	机床	1000	
026 机床报警清除 (machine)	000	01.07.24	机床	1000	
027 机床报警清除 (machine)	000	01.07.24	机床	1000	
028 机床报警清除 (machine)	000	01.07.24	机床	1000	
029 机床报警清除 (machine)	000	01.07.24	机床	1000	
030 机床报警清除 (machine)	000	01.07.24	机床	1000	
031 机床报警清除 (machine)	000	01.07.24	机床	1000	
032 机床报警清除 (machine)	000	01.07.24	机床	1000	
033 机床报警清除 (machine)	000	01.07.24	机床	1000	
034 机床报警清除 (machine)	000	01.07.24	机床	1000	
035 机床报警清除 (machine)	000	01.07.24	机床	1000	
036 机床报警清除 (machine)	000	01.07.24	机床	1000	
037 机床报警清除 (machine)	000	01.07.24	机床	1000	
038 机床报警清除 (machine)	000	01.07.24	机床	1000	
039 机床报警清除 (machine)	000	01.07.24	机床	1000	
040 机床报警清除 (machine)	000	01.07.24	机床	1000	
041 机床报警清除 (machine)	000	01.07.24	机床	1000	
042 机床报警清除 (machine)	000	01.07.24	机床	1000	
043 机床报警清除 (machine)	000	01.07.24	机床	1000	
044 机床报警清除 (machine)	000	01.07.24	机床	1000	
045 机床报警清除 (machine)	000	01.07.24	机床	1000	
046 机床报警清除 (machine)	000	01.07.24	机床	1000	
047 机床报警清除 (machine)	000	01.07.24	机床	1000	
048 机床报警清除 (machine)	000	01.07.24	机床	1000	
049 机床报警清除 (machine)	000	01.07.24	机床	1000	
050 机床报警清除 (machine)	000	01.07.24	机床	1000	
051 机床报警清除 (machine)	000	01.07.24	机床	1000	
052 机床报警清除 (machine)	000	01.07.24	机床	1000	
053 机床报警清除 (machine)	000	01.07.24	机床	1000	
054 机床报警清除 (machine)	000	01.07.24	机床	1000	
055 机床报警清除 (machine)	000	01.07.24	机床	1000	
056 机床报警清除 (machine)	000	01.07.24	机床	1000	
057 机床报警清除 (machine)	000	01.07.24	机床	1000	
058 机床报警清除 (machine)	000	01.07.24	机床	1000	
059 机床报警清除 (machine)	000	01.07.24	机床	1000	
060 机床报警清除 (machine)	000	01.07.24	机床	1000	
061 机床报警清除 (machine)	000	01.07.24	机床	1000	
062 机床报警清除 (machine)	000	01.07.24	机床	1000	
063 机床报警清除 (machine)	000	01.07.24	机床	1000	
064 机床报警清除 (machine)	000	01.07.24	机床	1000	
065 机床报警清除 (machine)	000	01.07.24	机床	1000	
066 机床报警清除 (machine)	000	01.07.24	机床	1000	
067 机床					

ADT-8860

NC multi-axis motion control module

Introduction:

Adopts ARM high performance CPU and super-large-scale programmable device FPGA, real-time multitasking control and hardware interpolation technology to ensure high efficiency of the system m-level precision machining under. Maximum control channel 6, 6 axes, the built-in G-code motion module, compatible with mainstream G code files, built-in programmable motion control module that is fully compatible with ICE61131-3 standards, with synchronizing axis control function, two motor drive. External standard interface, flexible and easy to use, supports distributed network control, suitable for automated assembly line for a variety of milling type, non-standard machinery and other automation machinery NC use.



Function Specification

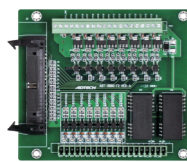
- Six-axis, servo stepper motor position control interface, the maximum pulse frequency 500KHZ
- Basic Input point 34 points
- The basic output points 18 points
- Various kinds of expansion IO 16:00
- Two AD
- Two DA
- Two serial ports
- A network port
- A SD card to expand the storage capacity of jack

Supported HDMI brand



及支持标准 MODBUS 协议的 HMI

Fitting



Expansion I / O splitter



Handheld box



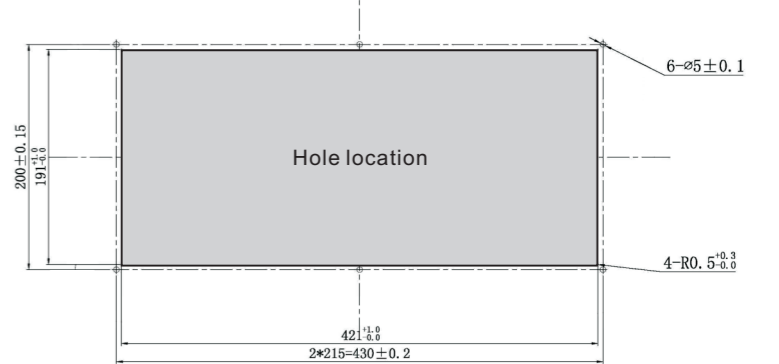
Data interface panel

Optional accessories

Panel size



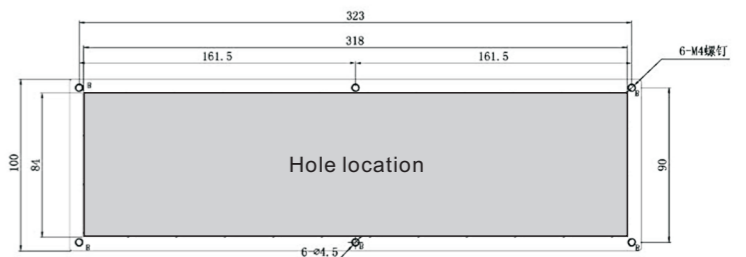
Panel mounting hole size



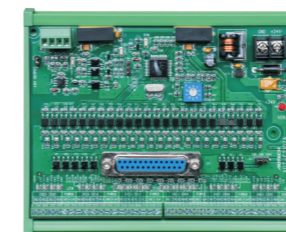
FDK4A Size : 334x100mm



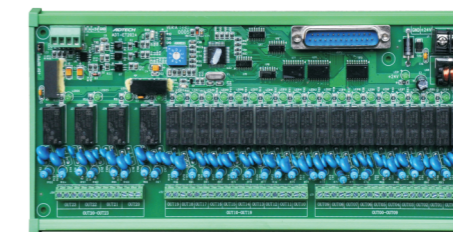
FDK4A Panel mounting hole size



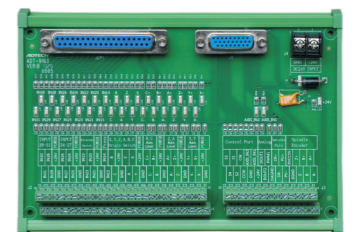
Input / output splitter size (using 35 mm DIN rail mounting)



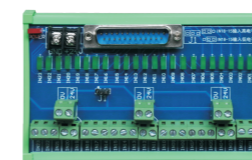
ET102A Input splitter
Size : 150 x 123mm



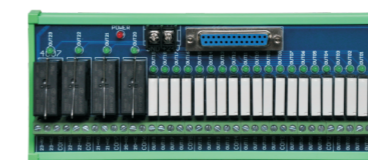
ET202A Output splitter
Size : 238 x 123mm



ADT-9163 Input splitter
Size : 177 x 123mm



ADT-I24HNA Input splitter
Size : 134 x 85mm



ADT-O24HNA Output splitter
Size : 195 x 85mm

System Command Function Datasheet

○Standard Function △Optional Function ☆Under Plan □Options ---- Not Available

Command	NO	Function Name	CNC4640	DK300A, DK400A	CNC4940	CNC4960	CNC4980
G0	1	Line locating	○	○	○	○	○
G1	2	Linear interpolation, cutting feed	○	○	○	○	○
G02	3	Circular interpolation (clockwise)	○	○	○	○	○
G03	4	Circular interpolation (counterclockwise)	○	○	○	○	○
G04	5	Pause	○	○	○	○	○
G17	6	Set X-Y working plane	○	○	○	○	○
G18	7	Set Y-X working plane	○	○	○	○	○
G19	8	Set Y-Z working plane	○	○	○	○	○
G20	9	Imperial units processing	○	○	○	○	○
G21	10	Metric units processing	○	○	○	○	○
G28	11	Automatic return to reference point	○	○	○	○	○
G50.1	12	Cancel all axis mirroring function	○	○	○	○	○
G51.1	13	Mirror function start	○	○	○	○	○
G31.2	14	Search tool instrument instruction	○	○	○	○	○
G53.1	15	Coordinate interpolation of machine tool instructions	○	○	○	○	○
G40	16	Cancel tool radius compensation	○	○	○	○	○
G41	17	Tool radius left compensation	○	○	○	○	○
G42	18	Tool radius right compensation	○	○	○	○	○
G43	19	Tool length compensation	○	○	○	○	○
G44	20	Tool length compensation	○	○	○	○	○
G49	21	Cancel tool length compensation	○	○	○	○	○
G53	22	Use the machine coordinate system	○	○	○	○	○
G54	23	No.1 workpiece coordinate system selection	○	○	○	○	○
G55	24	No.2 workpiece coordinate system selection	○	○	○	○	○
G56	25	No.3 workpiece coordinate system selection	○	○	○	○	○
G57	26	No.4 workpiece coordinate system selection	○	○	○	○	○
G58	27	No.5 workpiece coordinate system selection	○	○	○	○	○
G59	28	No.6 workpiece coordinate system selection	○	○	○	○	○
G65	29	Subroutine call (function)	○	○	○	○	○
G68	30	Rotating function on	○	○	○	○	○
G69	31	Rotating function off	○	○	○	○	○
G20	32	Imperial units processing	○	○	○	○	○
G21	33	Metric units processing	○	○	○	○	○
G73	34	High speed reciprocating chip deep hole drill	○	○	○	○	○
G74	35	Left hand tapping cycle	○	○	○	○	○
G76	36	Fine boring cycle	○	○	○	○	○
G80	37	Removed the fixed cycle functionality	○	○	○	○	○
G81	38	Drilling cycle	○	○	○	○	○
G82	39	Hole-bottom suspend drilling cycle	○	○	○	○	○
G83	40	Chip back and forth deep hole drill	○	○	○	○	○
G84	41	Tapping cycle	○	○	○	○	○
G85	42	Drilling cycle	○	○	○	○	○
G86	43	High speed drilling cycle	○	○	○	○	○
G87	44	Back fine boring cycle	○	○	○	○	○
G88	45	Boring cycle	○	○	○	○	○
G89	46	Hole-bottom suspend boring cycle	○	○	○	○	○
G90	47	Absolute coordinate programming	○	○	○	○	○
G91	48	Relative-axis programming	○	○	○	○	○
G92	49	Workpiece coordinate setting	○	○	○	○	○
G98	50	Return to the initial point	○	○	○	○	○
G99	51	Return to r point	○	○	○	○	○

○Standard Function △Optional Function ☆Under Plan □Options ---- Not Available

Command	NO	Function Name	CNC4640	DK300A, DK400A	CNC4940	CNC4960	CNC4980
	52	User-defined m-code function	○	○	○	○	○
	53	User local variables	○	○	○	○	○
	54	Non-maintained global total	○	○	○	○	○
	55	Maintain global volume	○	○	○	○	○
	56	Command: +,-,*/	○	○	○	○	○
	57	Function operation	○	○	○	○	○
	58	Support for multiple nested lines	○	○	○	○	○
	59	Supports logical operations	○	○	○	○	○
	60	Cycle instructions	○	○	○	○	○
	61	Conditional directives	○	○	○	○	○
	62	Custom variable names	○	○	○	○	○
	63	Custom alarms	○	○	○	○	○
	64	Supporting user-defined function step	○	○	○	○	○
	65	Providing user assistance development interface	○	○	○	○	○
	66	Supports Chinese and English format/* */comments	○	○	○	○	○
	67	Support operator panel button function user-defined	○	○	○	○	○
	68	Backlash compensation	○	○	○	○	○
	69	Bidirectional pitch compensation	○	○	○	○	○
	70	ARC drilling cycle	○	○	○	○	○
	71	X axial plane processing	○	○	○	○	○
	72	Y axial plane processing	○	○	○	○	○
	73	X single phase plane processing	○	○	○	○	○
	74	Y-single phase plane processing	○	○	○	○	○
	75	XY plane milling cycle	○	○	○	○	○
	76	Functions/function blocks	△	△	○	○	○
	77	Ladder diagram	△	△	○	○	○
	78	Structured language (ST) programming language	△	△	○	○	○
	79	Auxiliary relay 512	△	△	○	○	○
	80	Counters 128, 32-bit signed	△	△	○	○	○
	81	Data register-32,768	△	△	○	○	○
	82	Physical coils and contacts 0-511	△	△	○	○	○
	83	Virtual coil and contact 512-1023	△	△	○	○	○
	84	Supports single-axis, and two-axis and three-axis linear interpolation	△	△	○	○	○
	85	Support any of the PLC, the task cycle 8 MS	△	△	○	○	○