

CNC router engraver drilling and milling machine











This machine is used for the drilling of the circuit board , the engraving of the wireways , the cutting of the small-scale compenent , the engraving of the module etc. Especially the making of the circuit board sample , it can save both the time and the money.It can further the interest and the capability of pratice of the designer of the board .It is adequate for the college students and the electronic company. It has the high performance of the combination property , the high efficiency and high capability.

Features:

- The main axis adopts the 200W hanging and milling mainshaft , the speed is very high (the rotation is 20000 rmp/min).If you need , you can choose the 300W DC motor.
- The gantry type moving , the whole machine station is made of 11mm thickness aluminum-alloy , high quality and accuracy
- X and Z axis use the synchronizing wheel and synchronizing belt to connect , all these make the whole machine compact , with the function of shock absorption
- The manufacturing of the board and the plate is finer and the flat is more smooth and clear.
- 3 axis NC milling: use the double screw nuts , the resetting and the remaking are more accurate
- The controller can off-line manuel control work , the input speed can be adjusted
- Compatible software: KCAM MACH3 etc the regular software of CNC

Maximum working area	X axis	180mm
	Y axis	250mm
	Z axis	30mm
Working station size		280x340mmx11mm
accuracy	Working accuracy	0.08mm
	Axis resetting accuracy	0.05mm
structure	The working station	aluminum-alloy
	X、 Y structure	Trapezoid lead screw
The power		300W
speed	Maximum idle running speed	1000mm/min
	Maximum working speed	800mm/min
Main axis	The main axis output power	0-50/0-200W
	Main axis speed	1000-20000r/min

Step mode		Stepper+8 resolution
Working voltage		AC220V/50Hz
Running command		G Code
Operation system		WIN2000/XP
Net weight		19KG
Gross weight		24KG

Packing List

- the driver board
- the engraving machine * 1
- the software
- the data cable
- the power wire
- the chuck key
- the teaching and studying CD *1
- the engraving cutter *1
- the holding plate *1

install of software

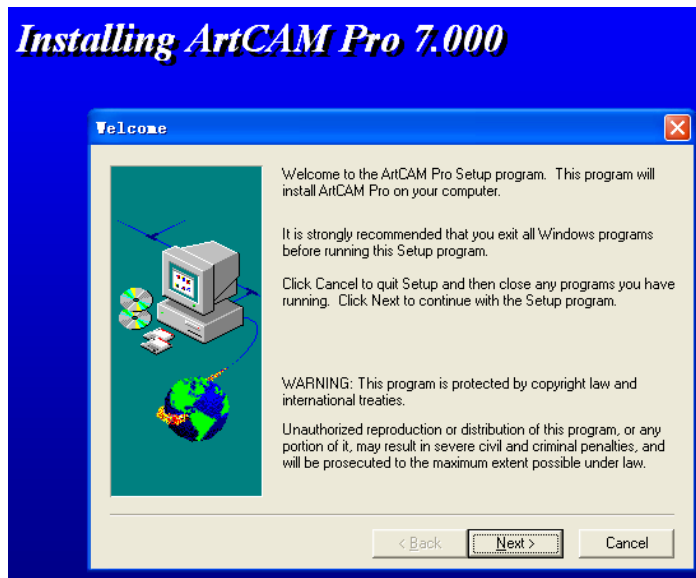
1、ARTCAM software

ARTCAM software in the CD, open pxdac7 file, double clicks , you will see the interface as follows:

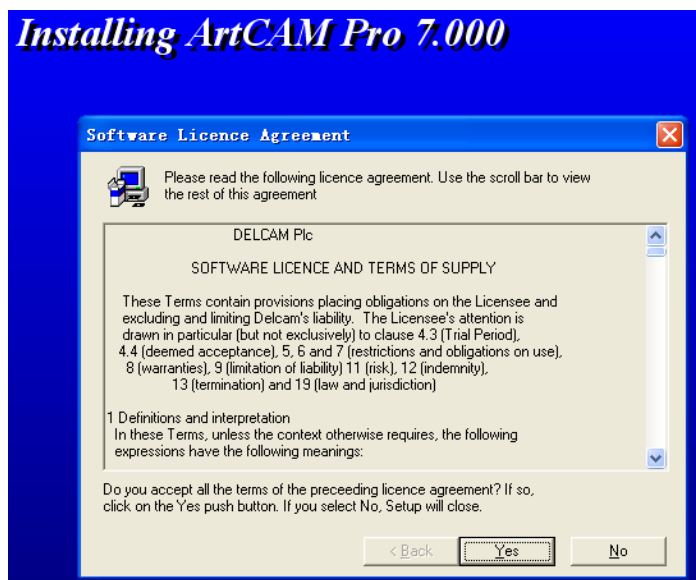
Then click next



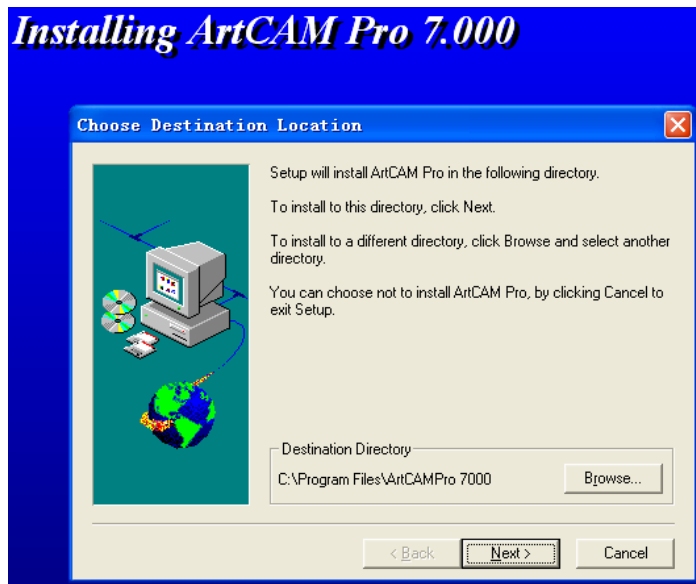
install
Setup Launcher (.
Stirling Technol.



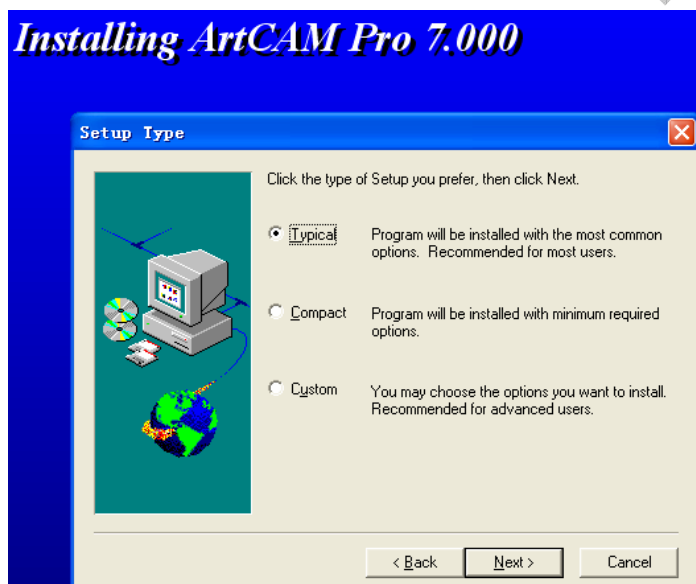
Click YES



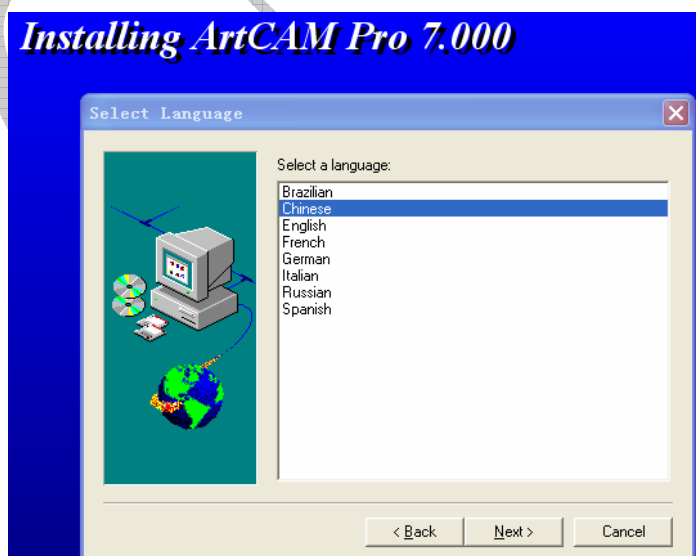
Click NEXT



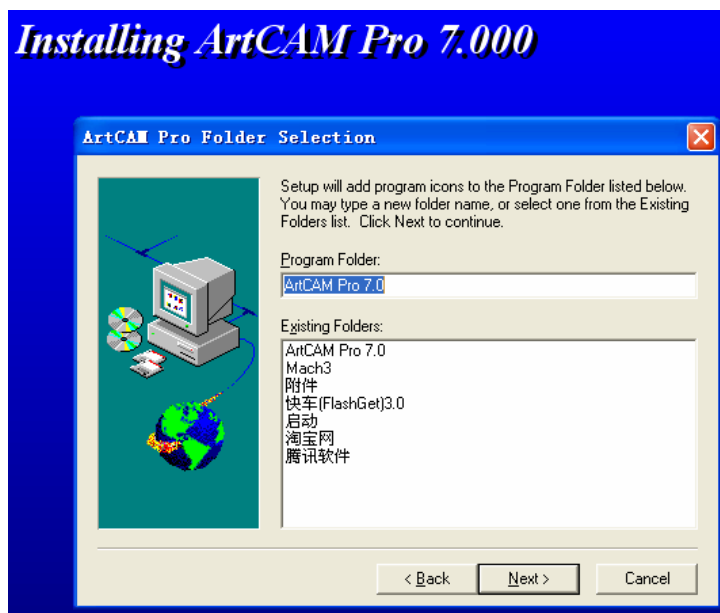
Click NEXT



choose the language you need



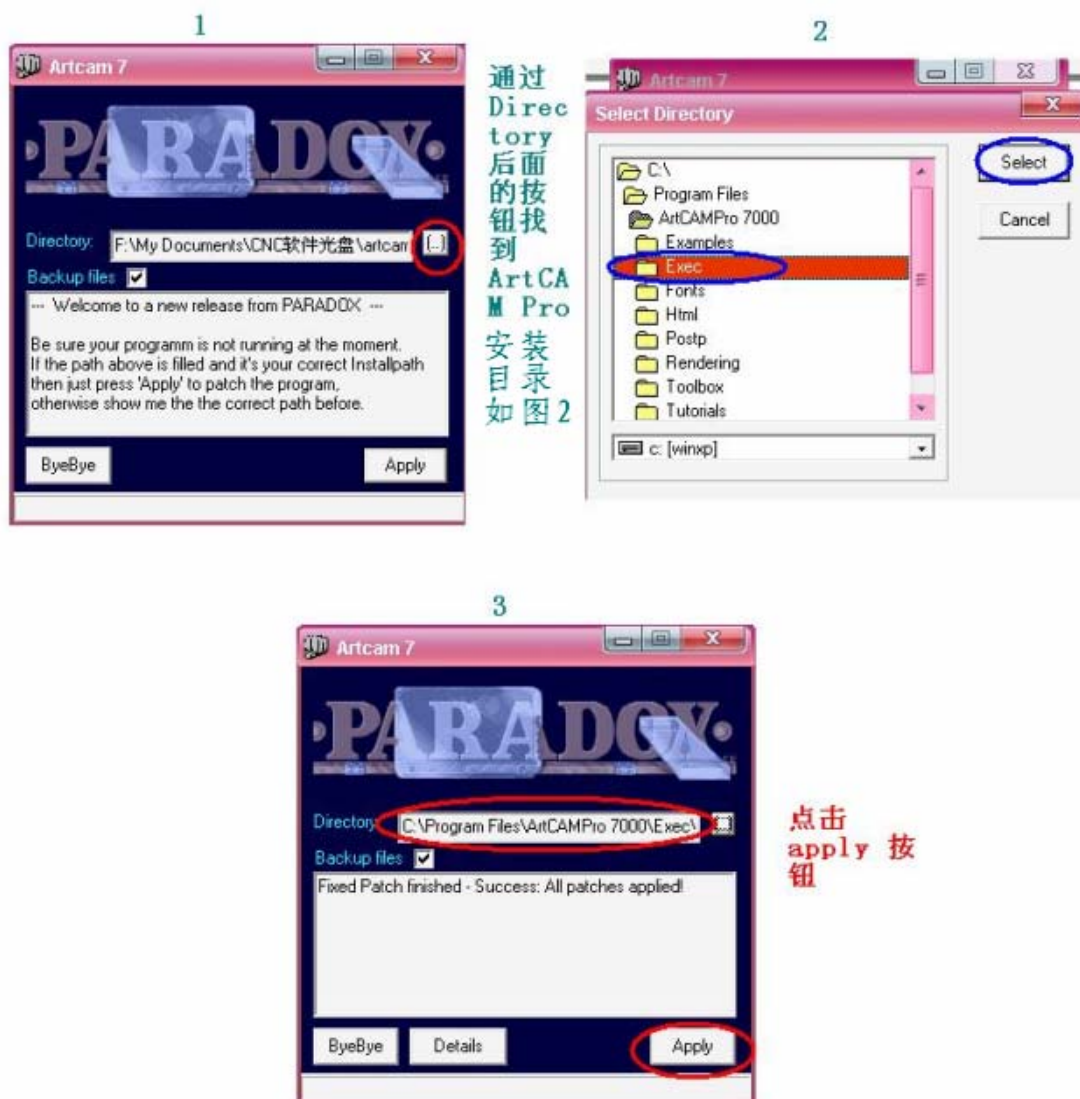
Click next to install



When finish the installation , you will see a shortcut icon like



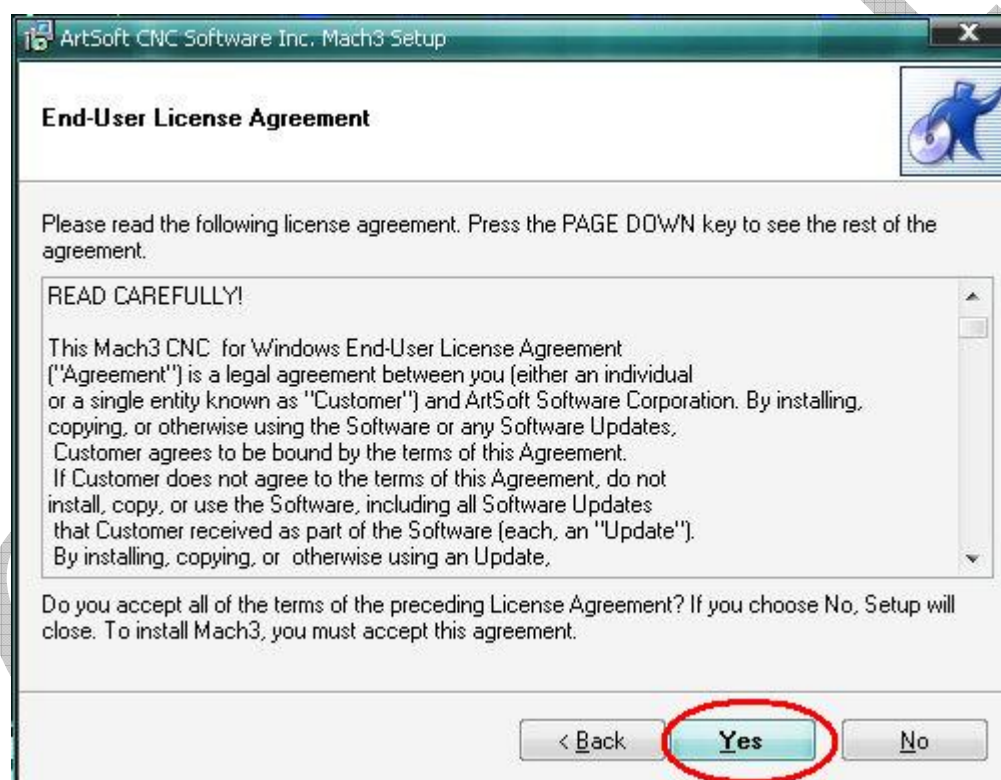
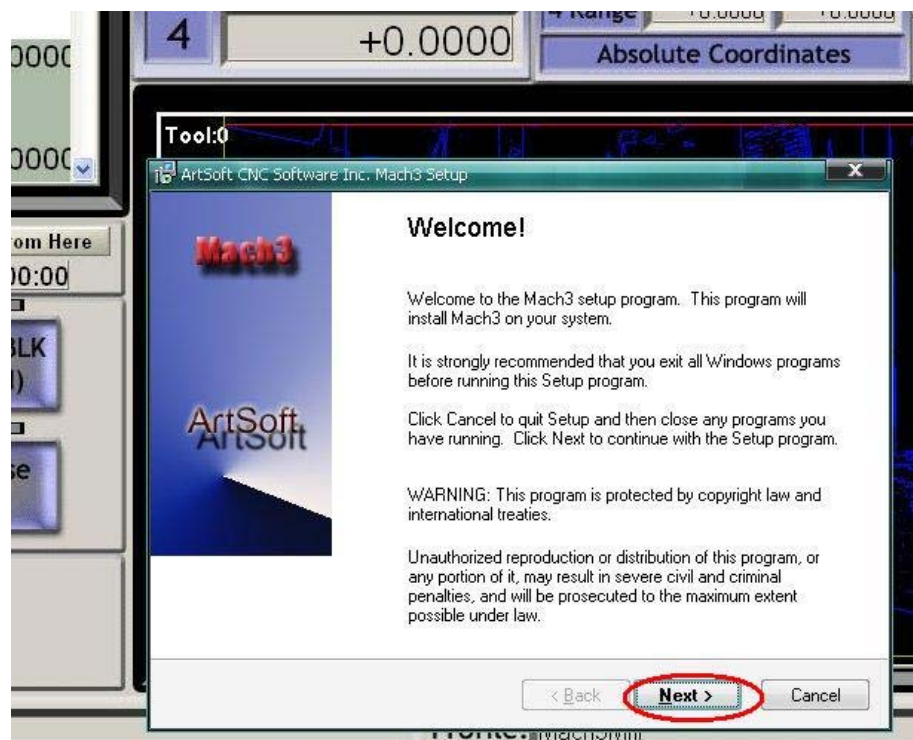
this and then double click the program folder patch.exe file

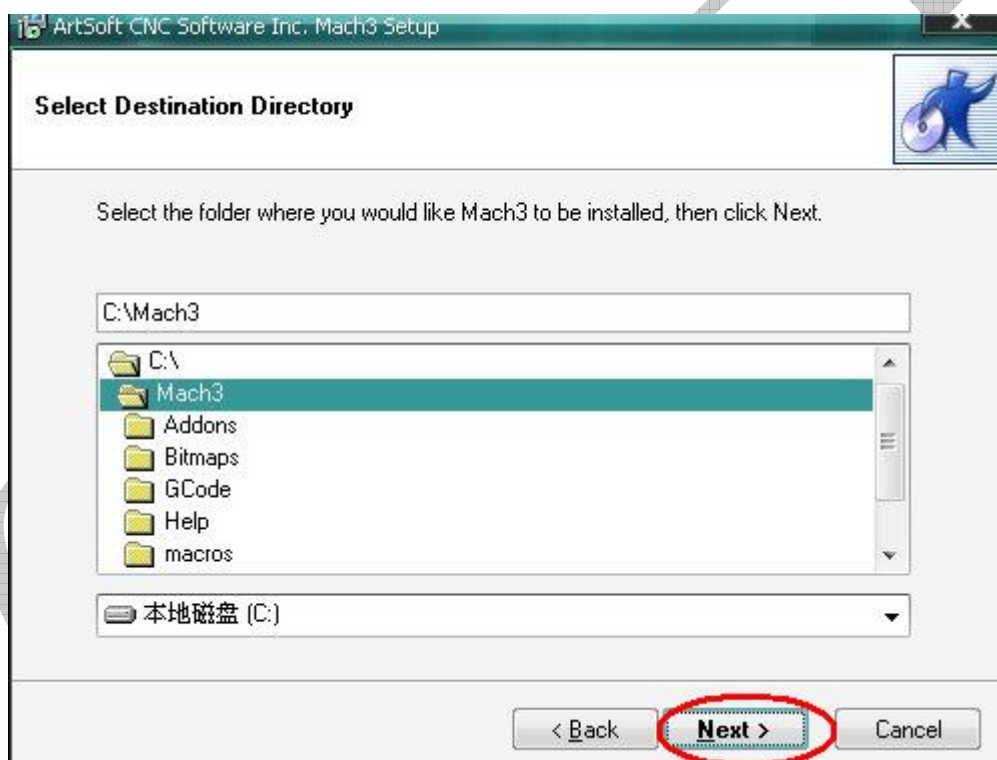
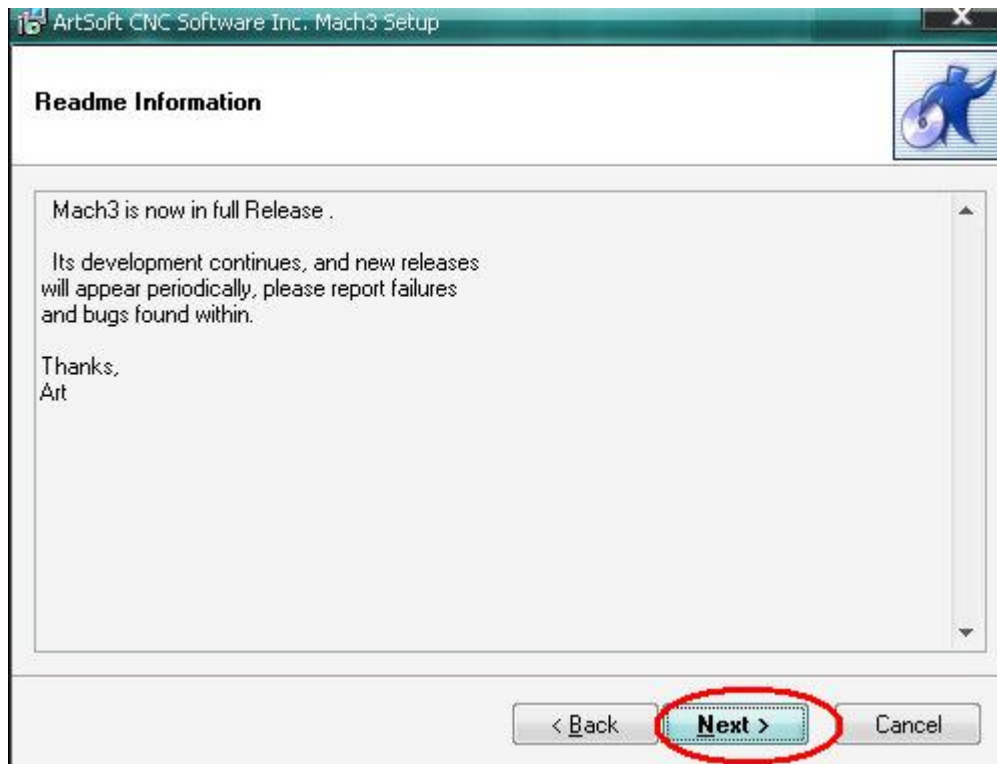


position: C:\Program Files\ArtCAMPro 7000\Exec

2、install the control software in the CD
double click the icon





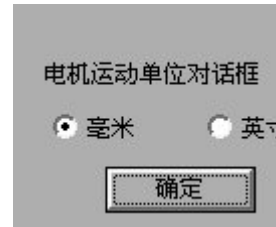


when you finish this, please do not open the software but click the NEXT

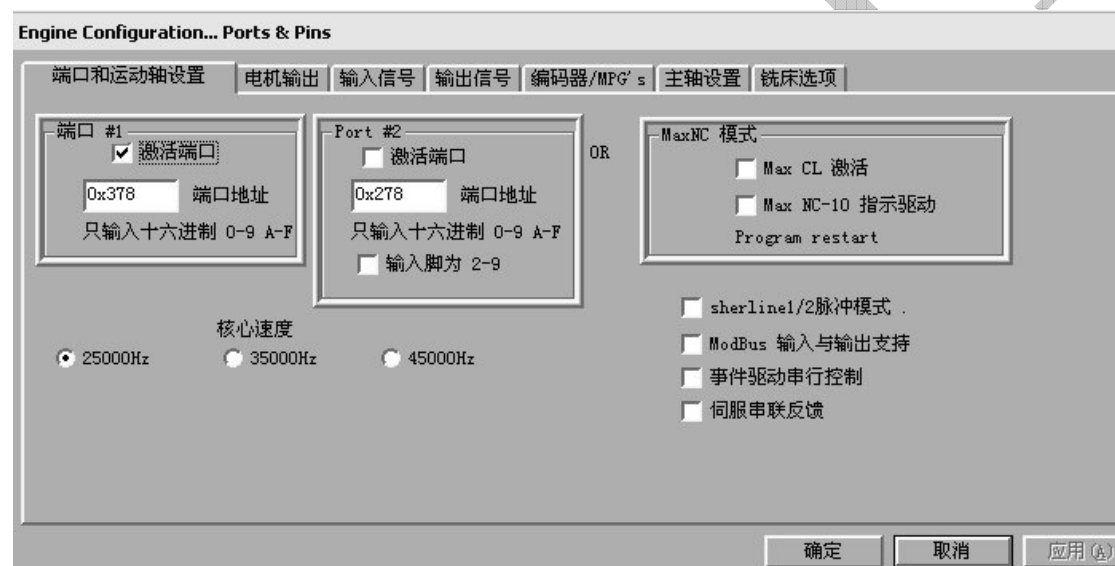
after finish all the installation, you will see the MACH 3, MACH3MILL , MACH3TURN on the desktop, we just need the MACH3MILL and then , restart the PC.

The setup of mach 3

The setup of unit



The setup of the ports and pins



Engine Configuration... Ports & Pins

端口和运动轴设置 电机输出 输入信号 输出信号 编码器/MPG's 主轴设置 铣床选项

方向设置，如反了就在此设置

Signal	Enabled	Step Pin#	Dir Pin#	Dir LowActive	Step Low Ac...	Step Port	Dir Port
X Axis		16	17			1	1
Y Axis		4	5			1	1
Z Axis		6	7			1	1
A Axis		0	0			0	0
B Axis		0	0			0	0
C Axis		0	0			0	0
Spindle		1	0			1	0

低电平有效

确定 取消 应用(A)

Engine Configuration... Ports & Pins

端口和运动轴设置 电机输出 输入信号 输出信号 编码器/MPG's 主轴设置 铣床选项

Signal	Enabled	Port #	Pin Number	Active Low	Emulated	HotKey
Index		0	0			0
Limit Ovrd		0	0			0
EStop		1	10			0
THC On		0	0			0
THC Up		0	0			0
THC Down		0	0			0
OEM Trig #1		0	0			0
OEM Trig #2		0	0			0
OEM Trig #3		0	0			0
OEM Trig #4		0	0			0

输入脚为10-13和15, 只有这5个引脚可以用于此设置

确定 取消 应用(A)

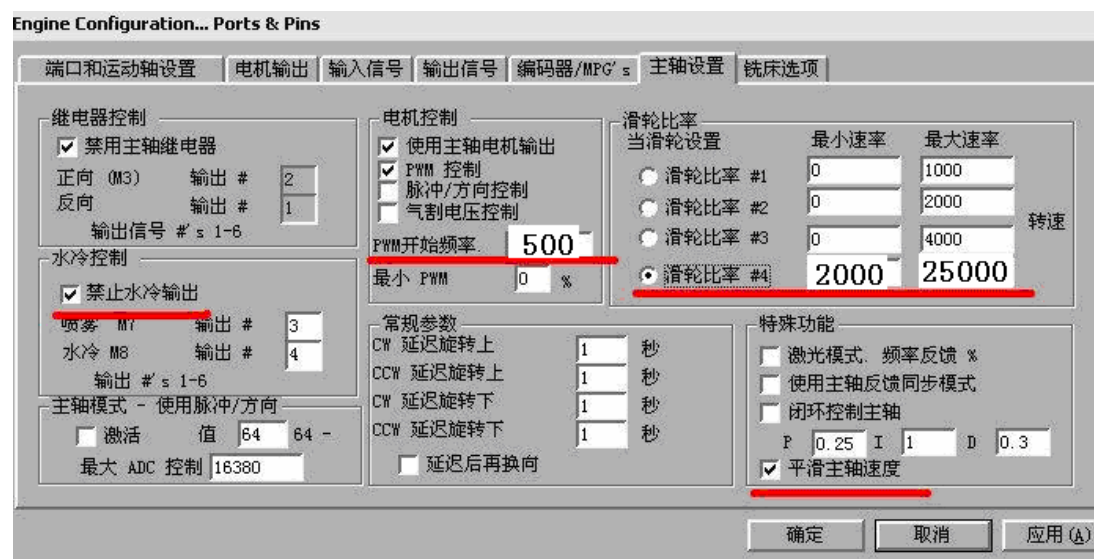
Engine Configuration... Ports & Pins

端口和运动轴设置 电机输出 输入信号 输出信号 编码器/MPG's 主轴设置 铣床选项

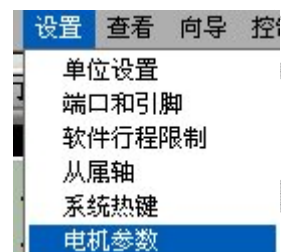
Signal	Enabled	Port #	Pin Number	Active Low
Digit Trig		0	0	
Enable1		14	14	
Enable2		1	8	
Enable3		1	9	
Enable4		0	0	
Enable5		0	0	
Enable6		0	0	
Output #1		0	0	
Output #2		0	0	
Output #3		0	0	

启用使能

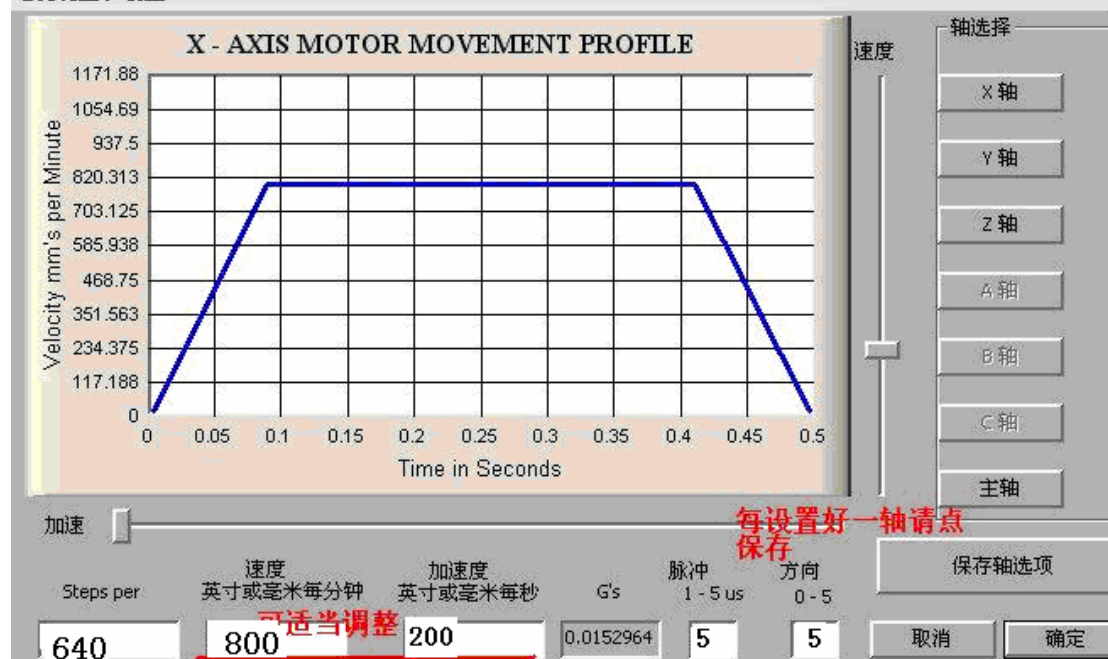
引脚 2 - 9, 1, 14, 16, 和17 是输出信号。其它没有用到。



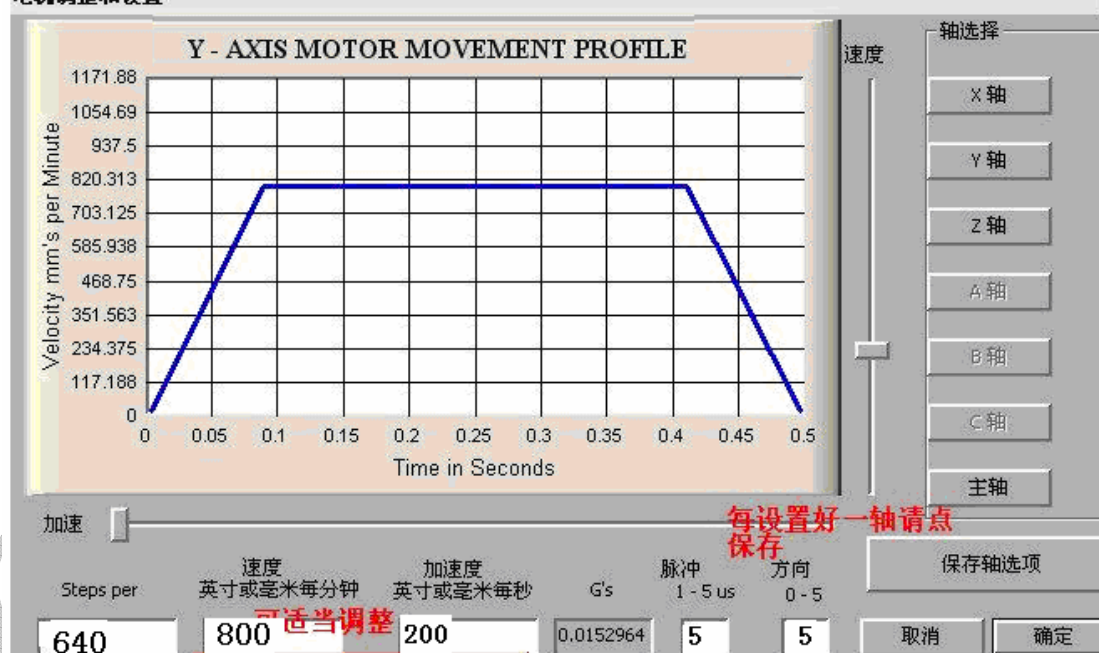
The setup of the motor



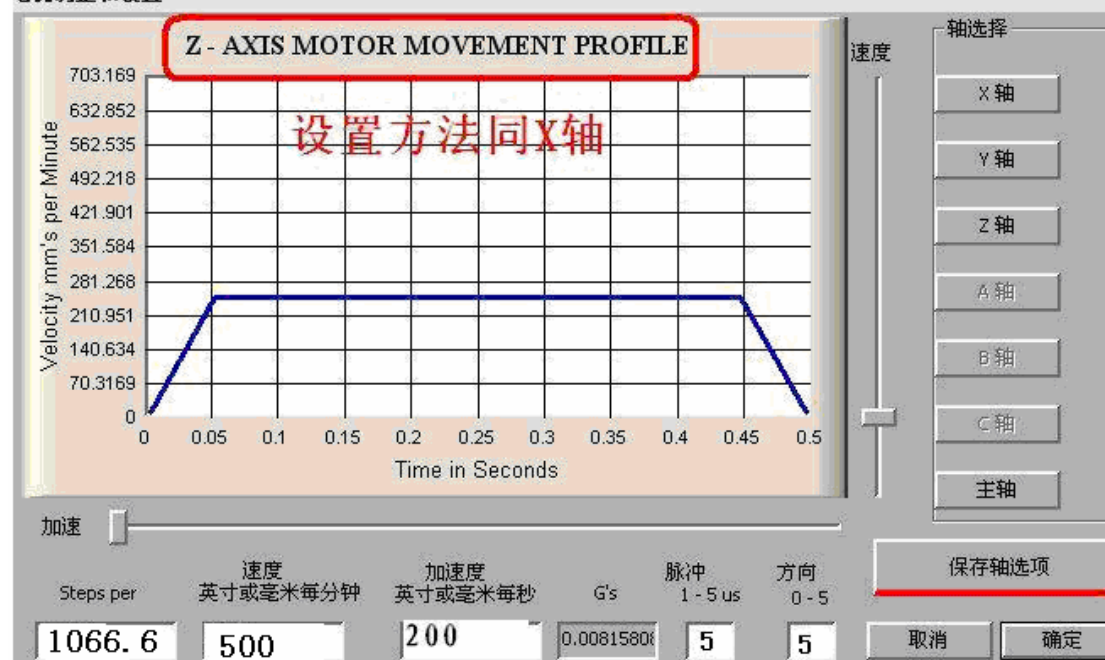
电机调整和设置



电机调整和设置



电机调整和设置



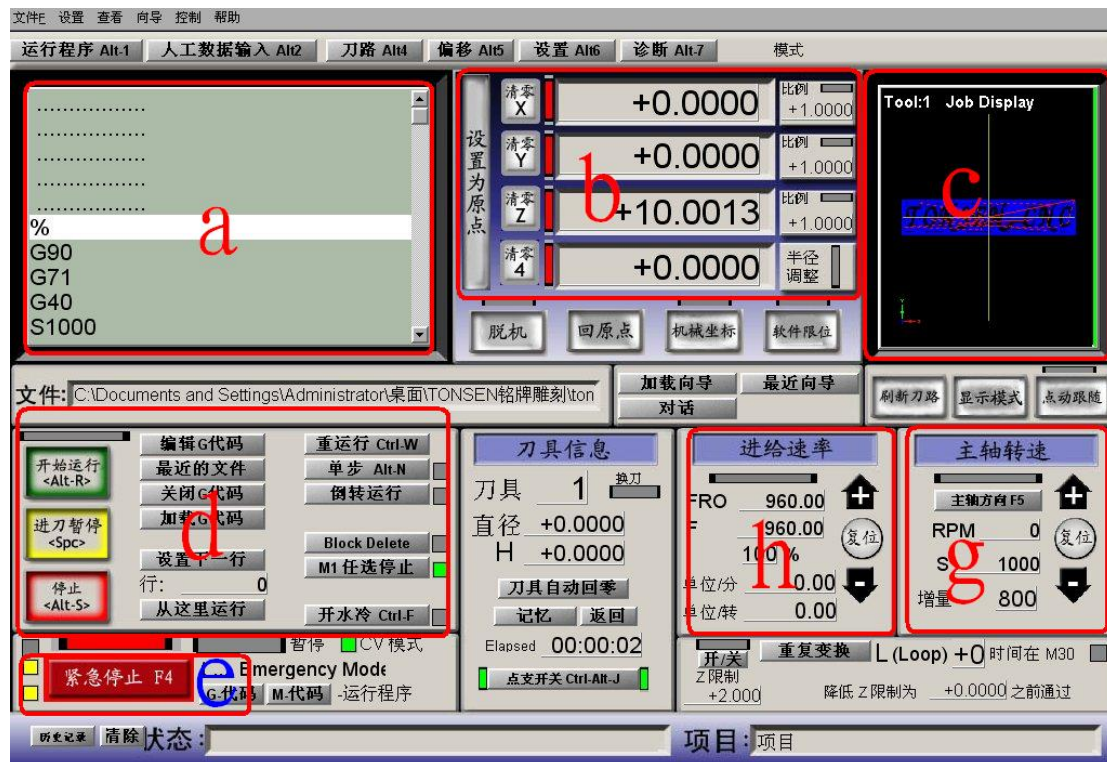
You should save every data of every setup



The interface of the software



7 interfaces



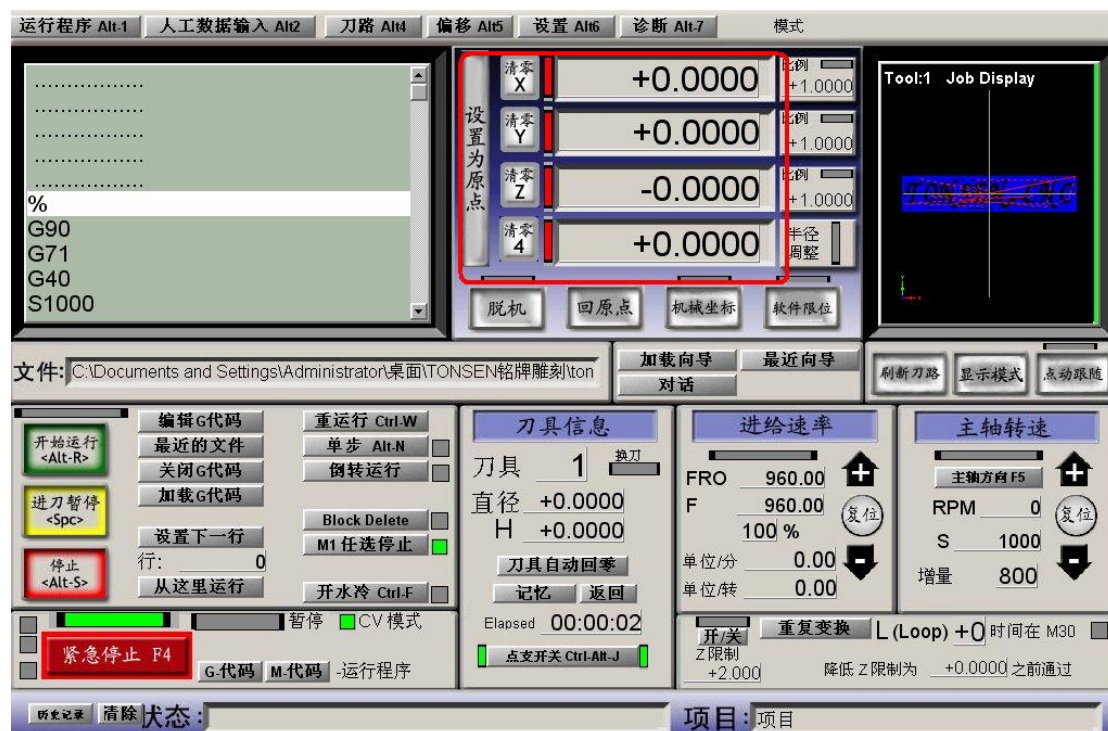
- a、the display area of the code
- b、the display area of the position of the axis
- c、the display area of the engraving orbit
- d、the code execution and control
- e、emergency stop button
- g、main axis control
- h、the engraving speed adjust

The manual control

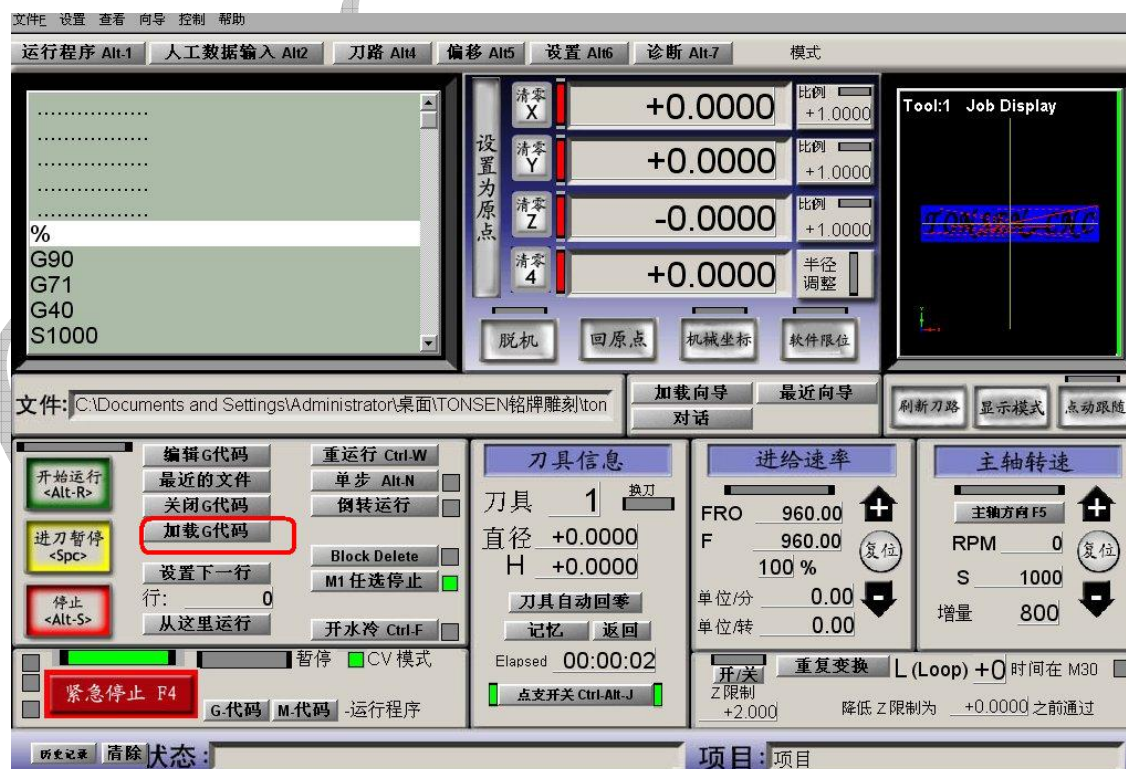
Click the TAB of your keyboard



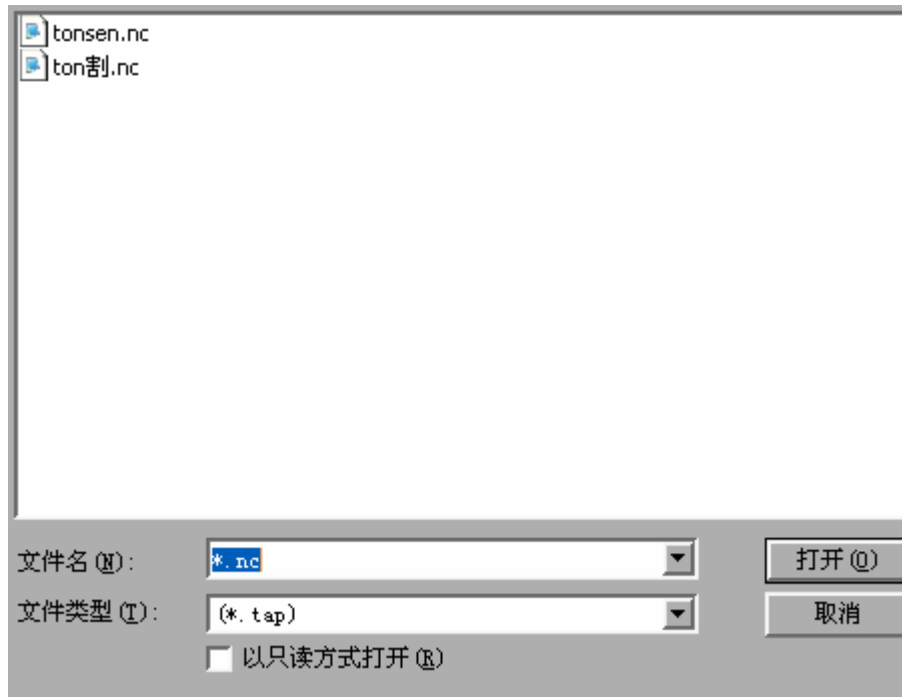
1、ajust all the data to 0 , shows like the red circle



2、open the file (G code)



2、choose the file that you want



3、run the program

4. stop

5、when finishing or stopping , you should press the emergency stop button

Attention:

Turn on: at first run the software and then turn on the power of the controller

Turn off: at first cut off the power of the controller and then close the software.