

Vitkovets CNC

Комплектующие системы ЧПУ

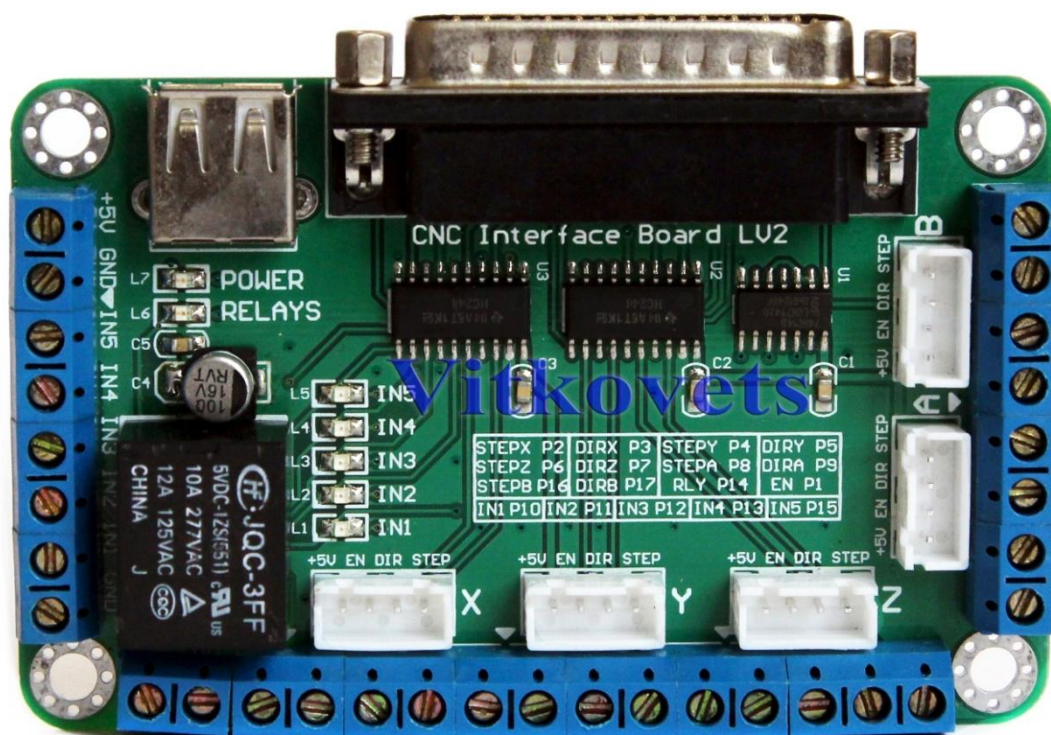
Наш сайт: <http://cnc.prom.ua/>

Тел: +380 (096)-665-71-06

+380 (098)-821-25-90

E-mail: cncprom@ukr.net

Interface Board LV2



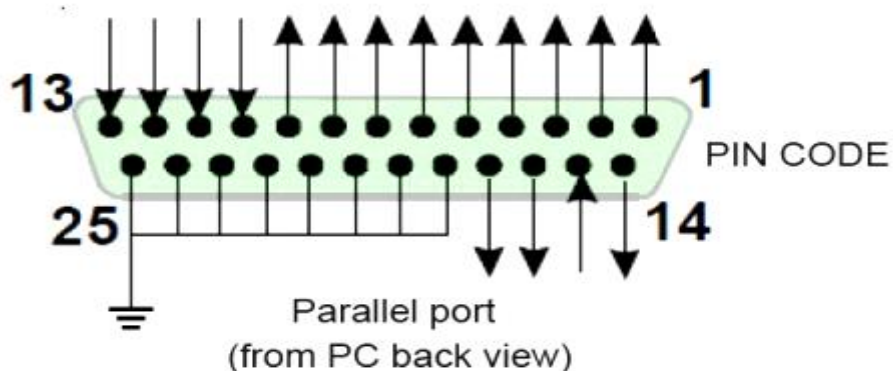
Instruction

- Support MACH3, KCAM4, EMC2 and other software ;
- Control five stepper motor driver ;
- 5-way input interface, you can connect limit switch and stop switch, reset , knife signal
- Input signal then have LED indicates ;
- NO and NC port of relay all allow, you can choose them to control spindle ;
- Can choose USB of PC to supply 5 v or external power supply 5 v
- Data transfer speed can up to 10MBit/S ;
- Output pin with extension interface, you can use XH-2.54 also

Specification

The interface board uses a high-performance three-state bus driver 74HC244 and Schmitt inverter 74HC14, the signal drive capability is stronger and more stable after filtering. Add 5V input terminal and the light of input and relay , makes the operation more convenient to use.

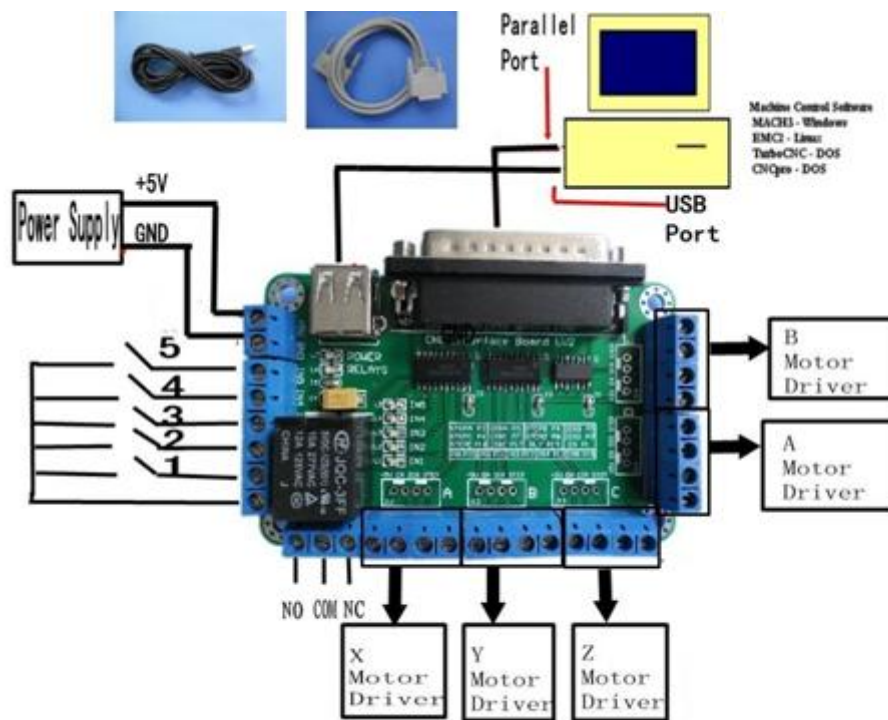
Port definition



25-pin parallel port control is defined as follows :

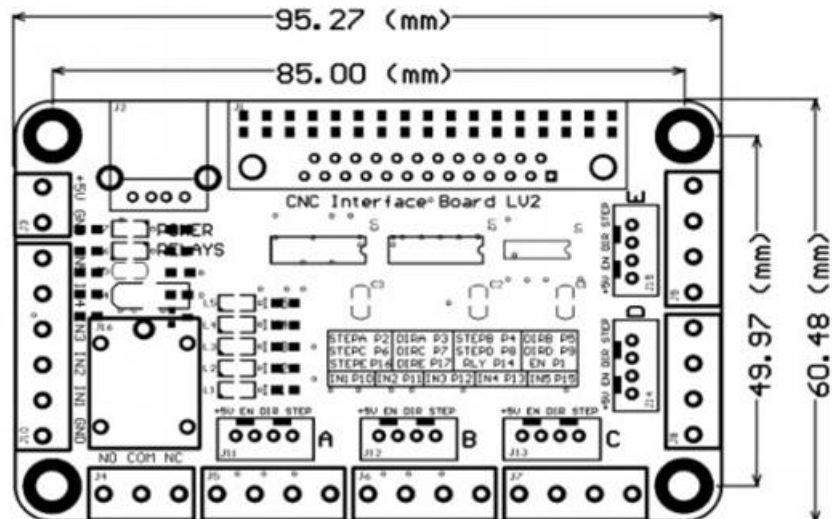
DB25 PIN	The role of the pin on driver board	notes
1	EN	Enable all axis
14	RLY	Relay
2	STEPX	X pulse signal
3	DIRX	X direction signal
4	STEPY	Y pulse signal
5	DIRY	Y direction signal
6	STEPZ	Z pulse signal
7	DIRZ	Z direction signal
8	STEPSA	A pulse signal
9	DIRA	A direction signal
16	STEPB	B pulse signal
17	DIRB	B direction signal
10	LIMIT-1	input1
11	LIMIT-2	input2
12	LIMIT-3	input3
13	LIMIT-4	input4
15	LIMIT-5	input5
18-25	GND	GND

The connect between breakout and driver



common-anode

Size:



MACH3 OF APPLICATION

1.Open

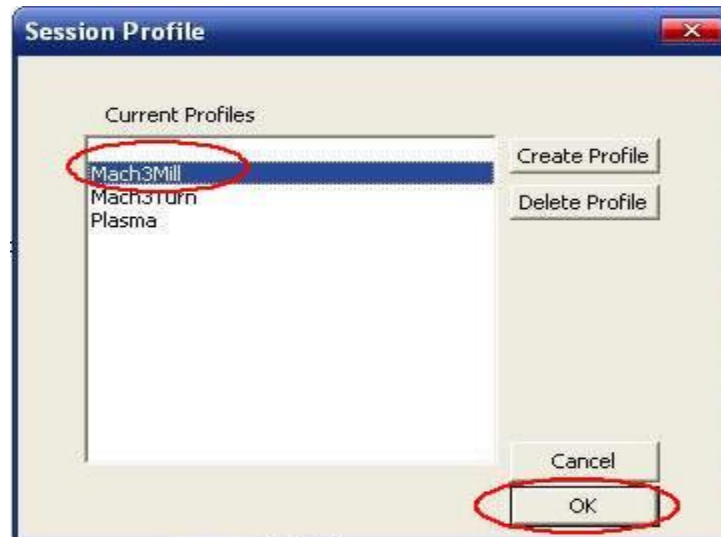


Fig.1

We use the mach3Mill, click the mach3Mill, see Fig 1.

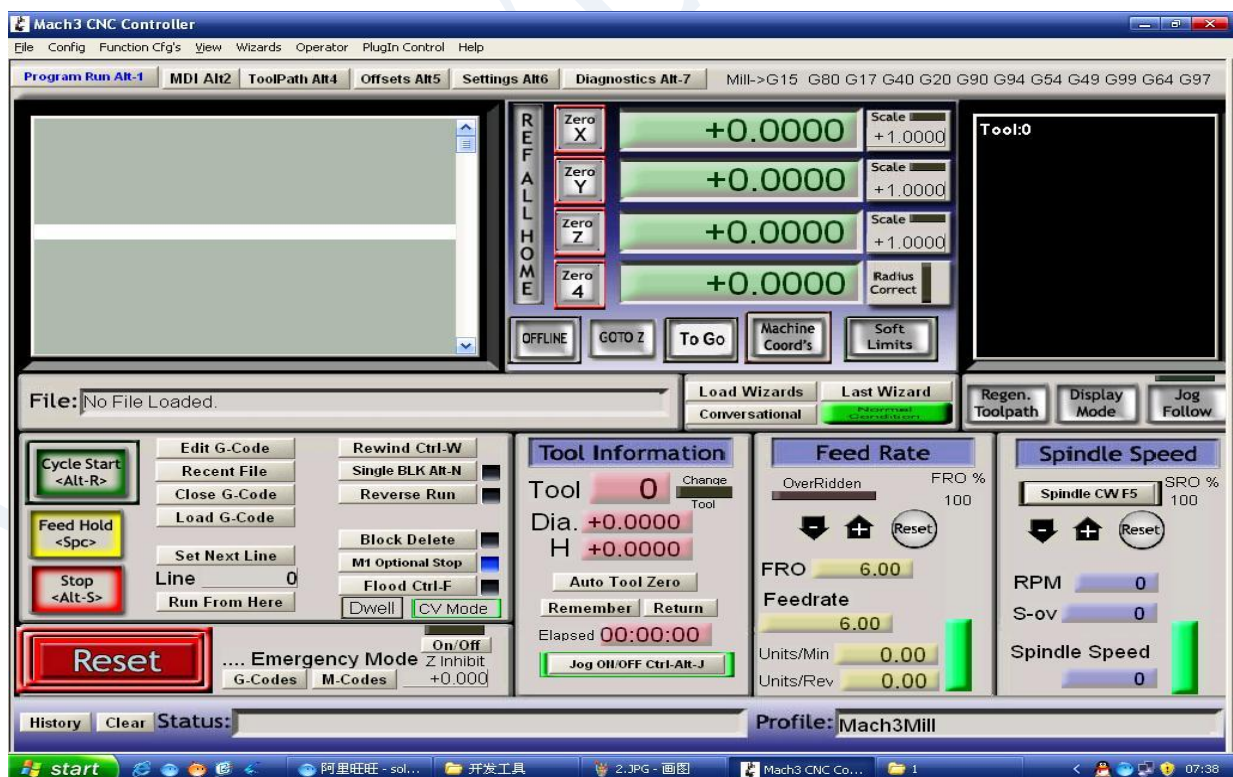


Fig 2

Open the mach3, you will see the Fig2.

2.Basic of Setting

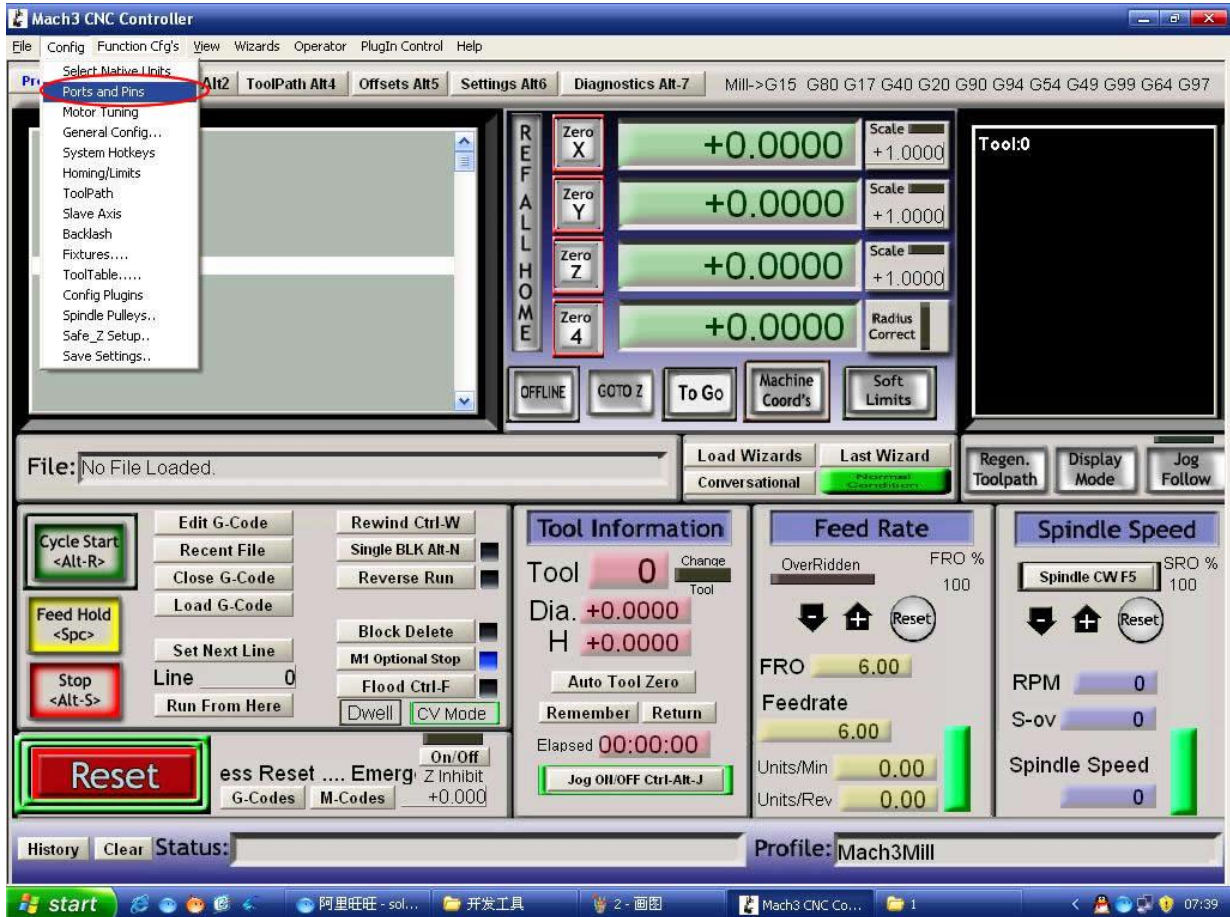


Fig 3

Fig 3, click the menu of Config, submenu of ports and pins, see fig3

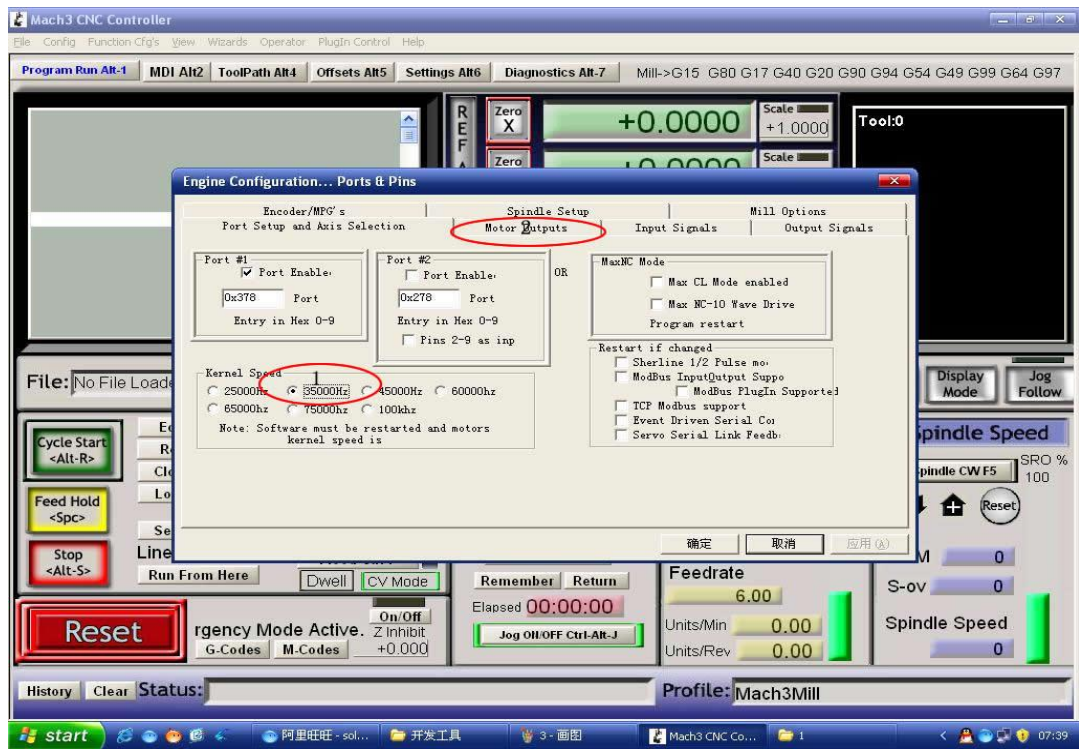


Fig 4 Setting frequency

The first step we setting frequency, see fig 4 :

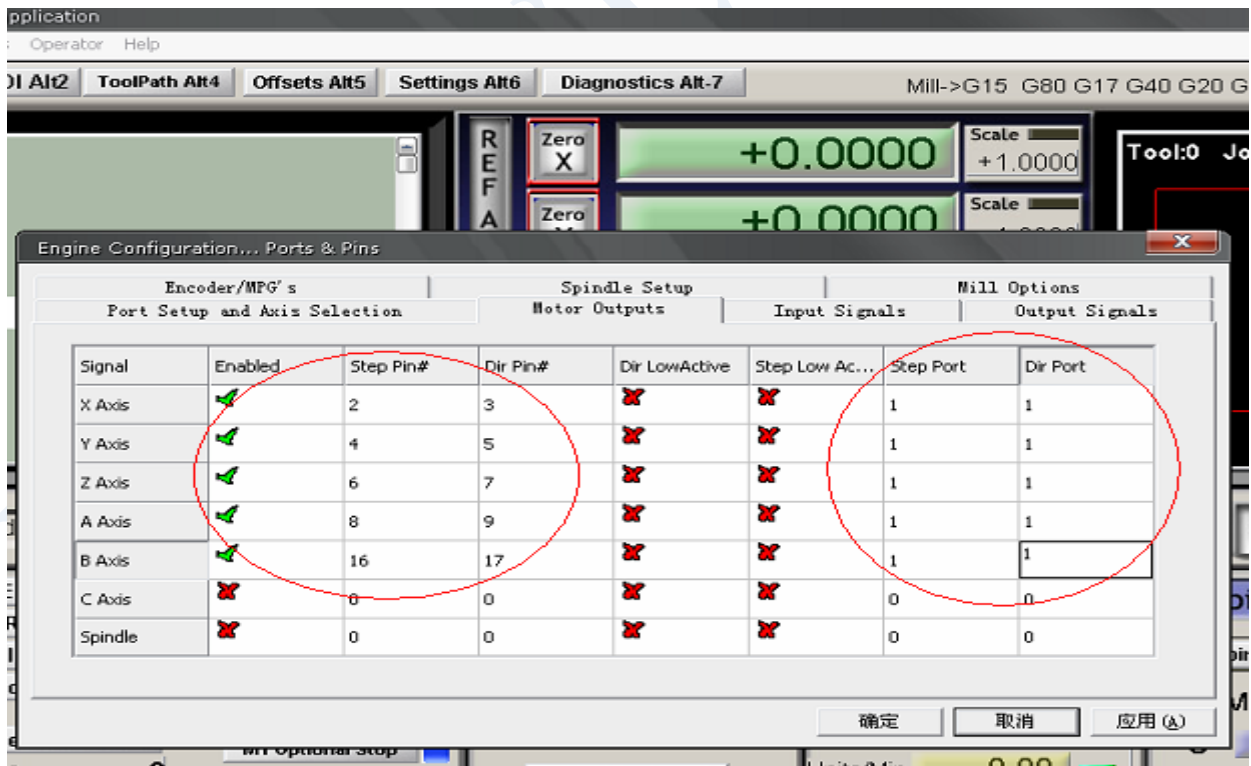


Fig 5 Dir and step Settings

STEP Low Active is decided by your motor driver , different driver will be different Please debug the high or low level。 After set the motor outputs, click the output signals you will see fig 6。

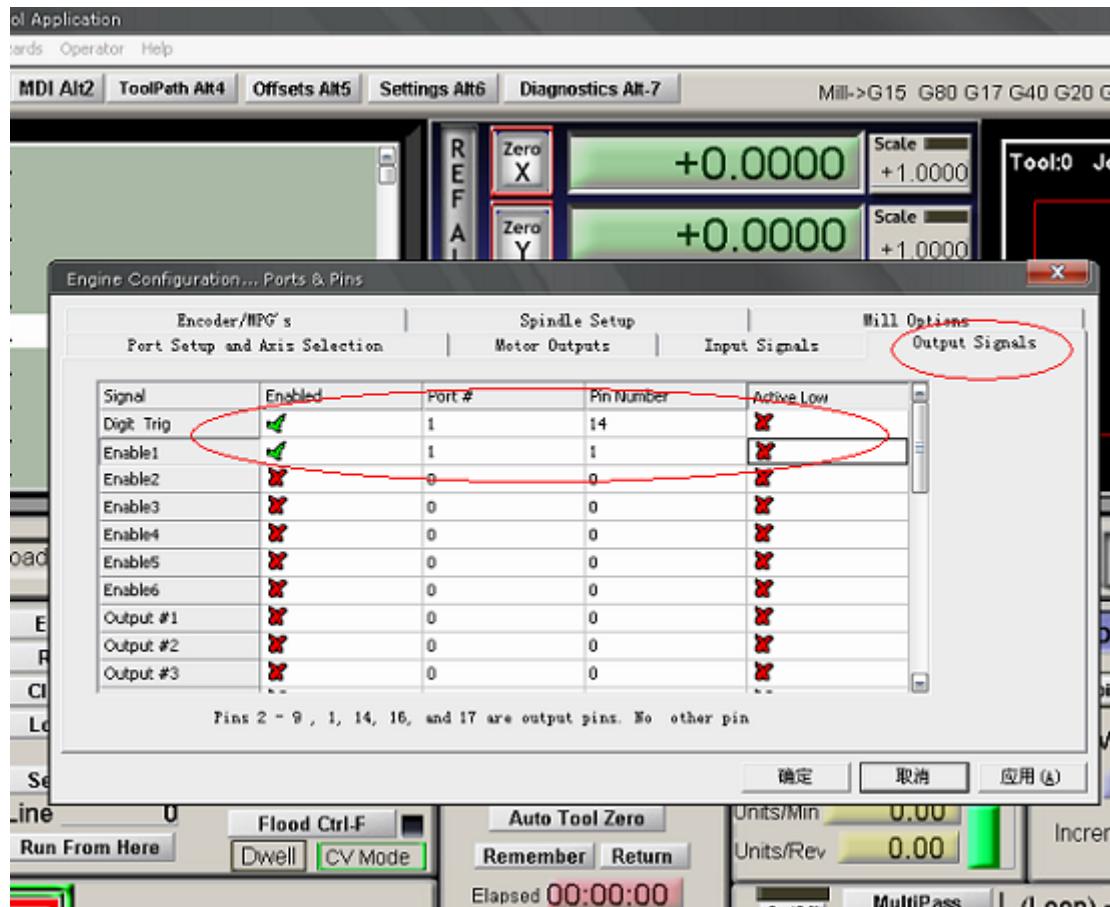


Fig 6

Active Low settings maybe difference because of different computers and drivers, the level will be high or low .But .After set pin 1, motor will be self-locked

3. Limit setting

Click input signal, see fig 7。

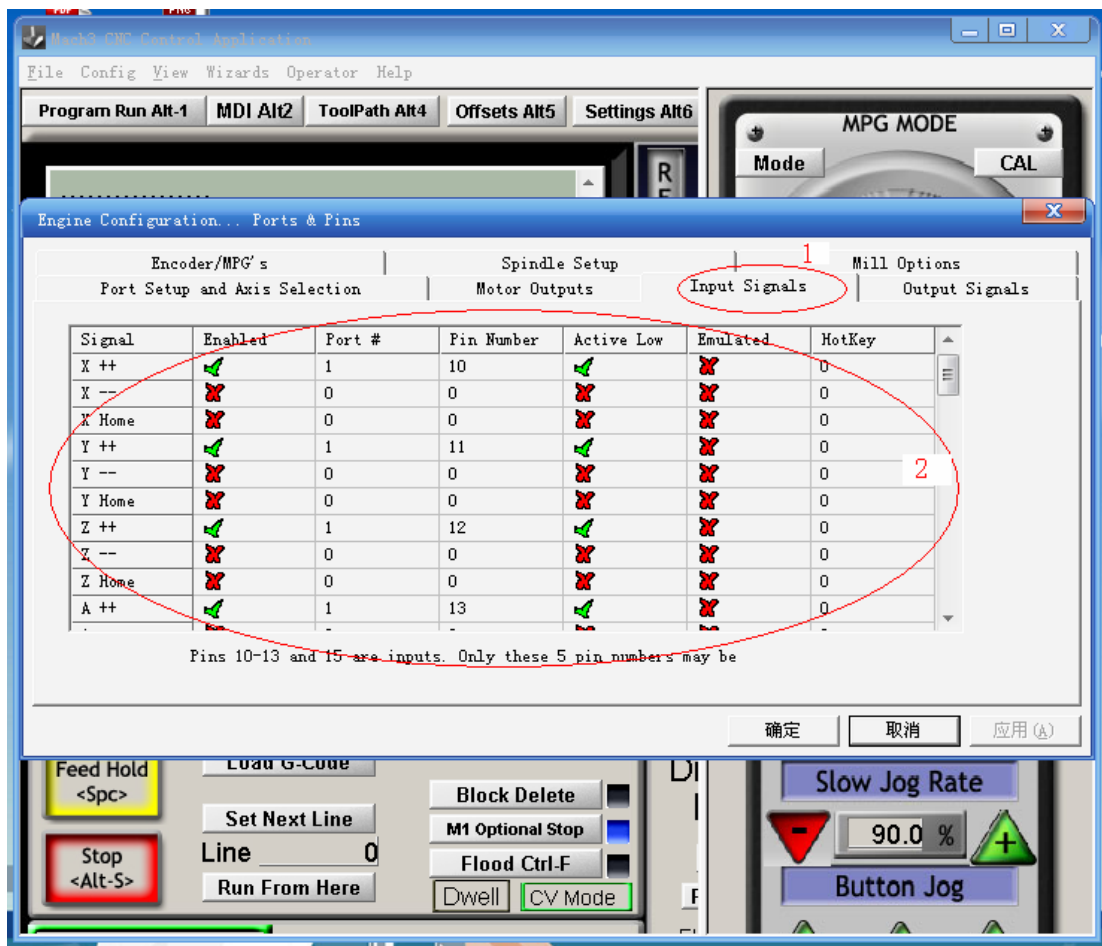


Fig 7

4. Load the G-code

Load the g code, see fig 8 :

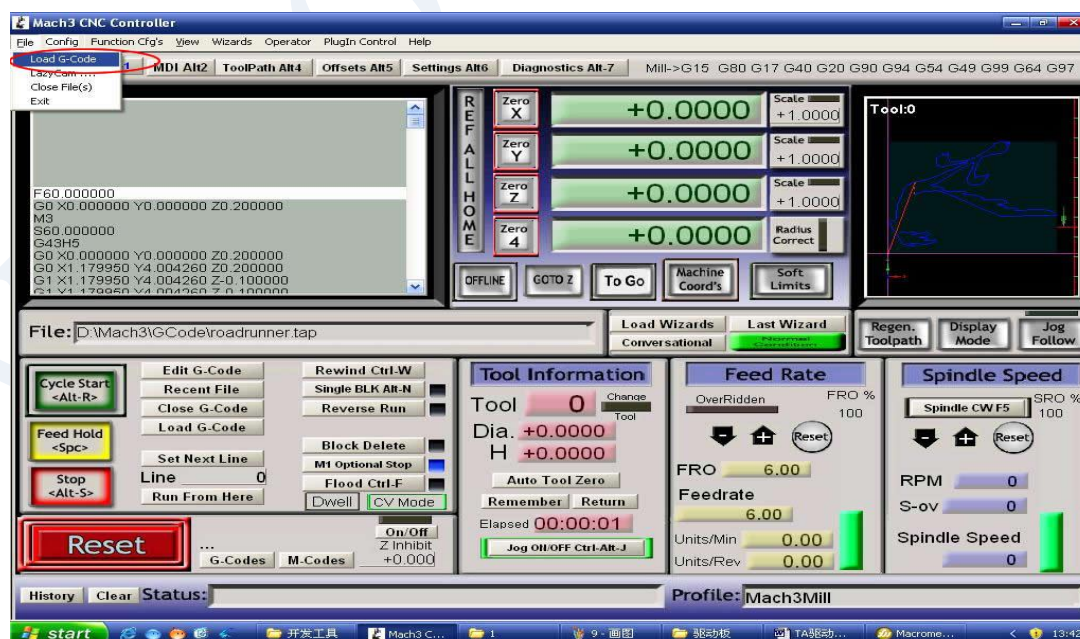


Fig 8

Click the Load G-code ,open the g-code , see the fig 9 :

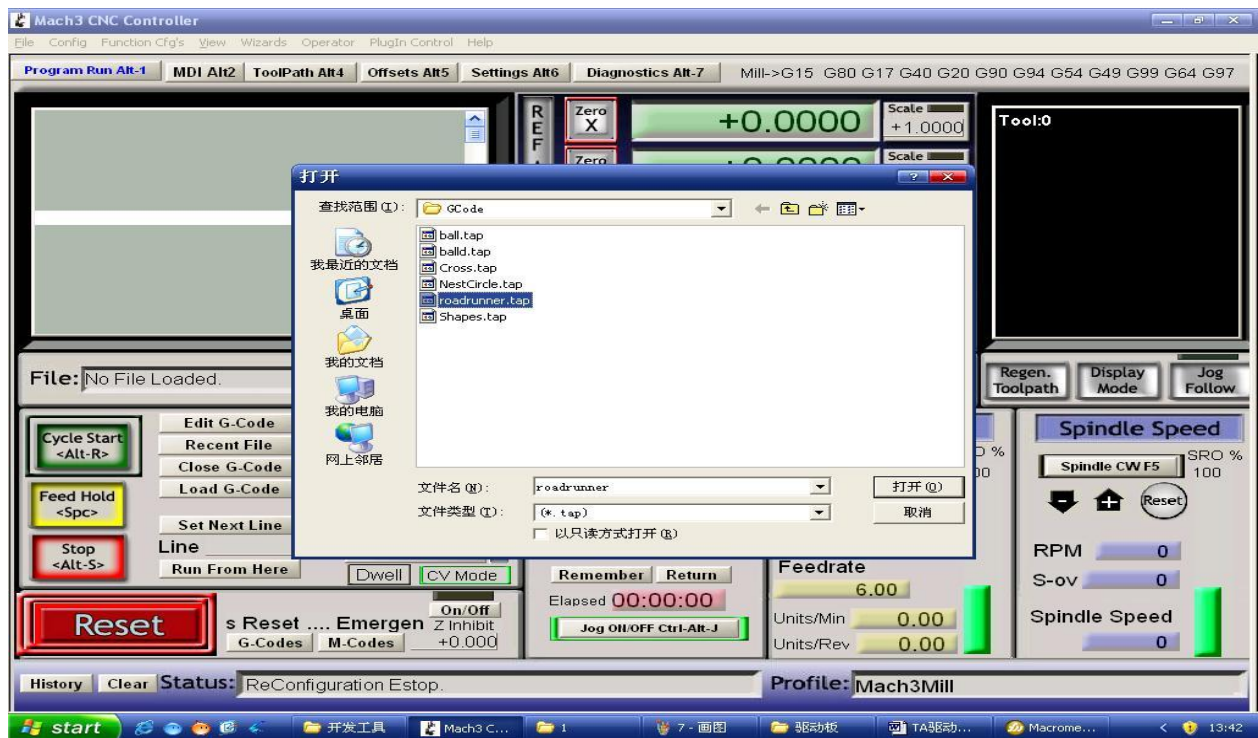


Fig 9

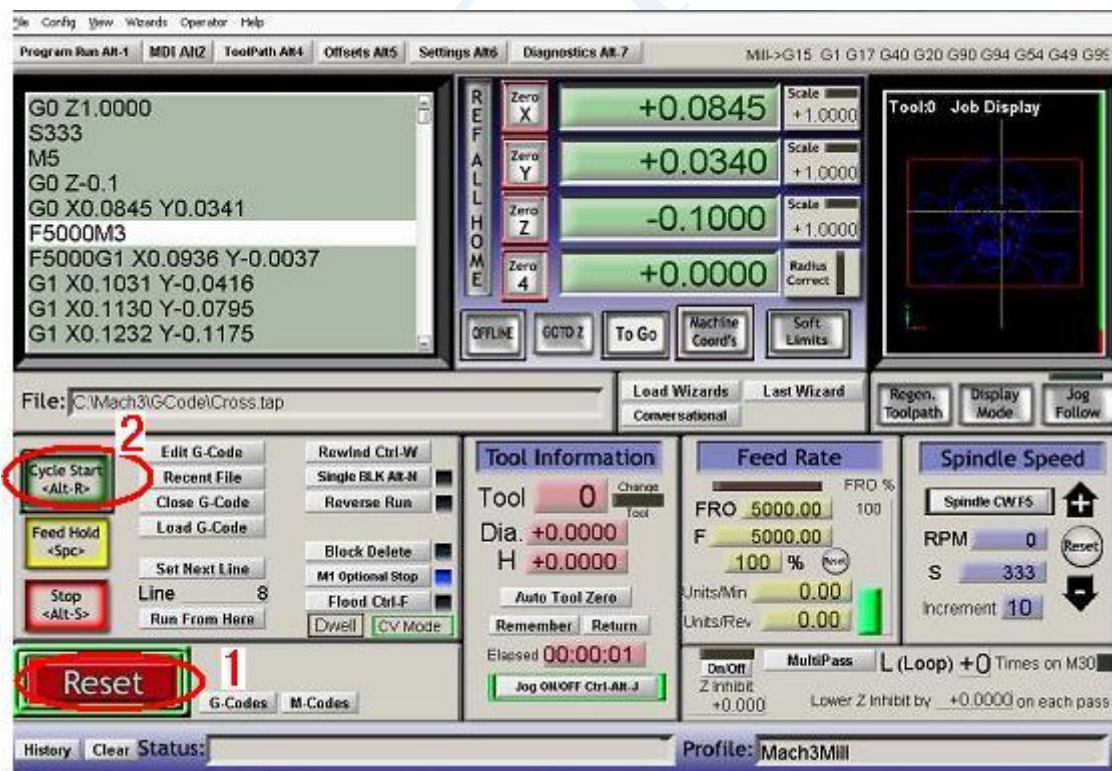


Fig 10

After open the G code, you can see the red RESET button (1circle) in flash, click the button to stop flashing, and then click the CYCLESTART (circle 2) operation of the position.

5. manual control

If you need manual, you can press the keyboard TAB key to open see fig 11 :

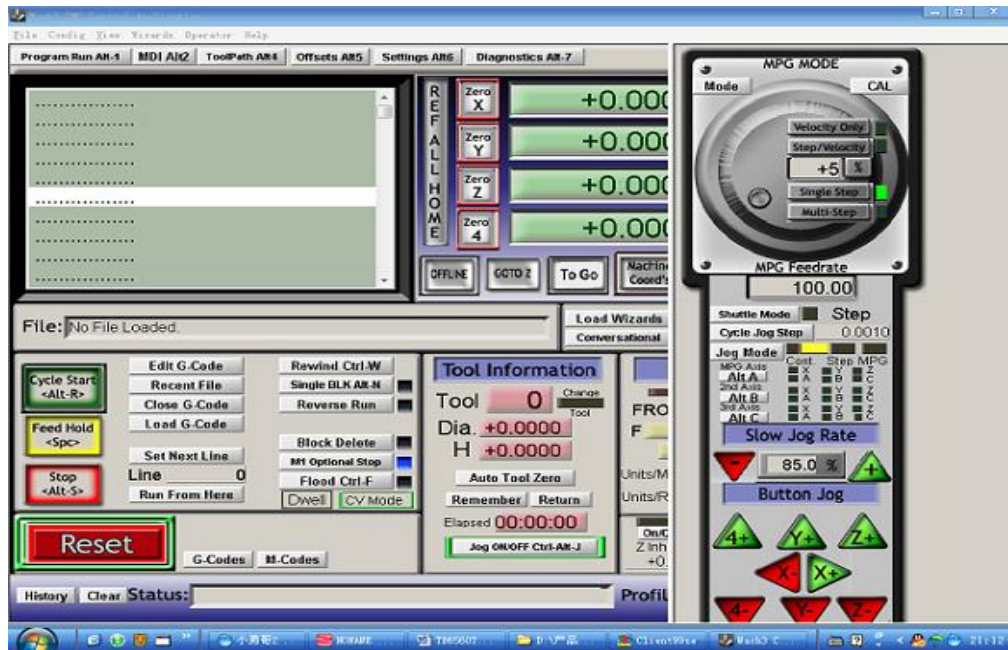


Fig 11