



Application system: MACH3

MACH3

The MACH3 wireless MPG instructions
for the MACH3 system

PRADO
AUTOMAÇÃO INDUSTRIAL



型号
MODEL

WHB04B-4:4

WHB04B-4:4 axis,wireless handwheel

WHB04B-6:6

WHB04B-6:6 axis,wireless handwheel

- Radio frequency : 433MHZ,ISM ,the Tx power is 10DB and the RX sensitivity is -98DB
- The RF has 64 channels,the channel gap is 1Mhz
- Using frequency hopping, stable and reliable
- Hopping transmission technology, can support 64 sets of equipment, each other is not affected
- 100PPR manual pulse generator ,support 10 macro function button
- LCD Display: machine coordinates and workpiece coordinates X, Y, Z, A, B, C-axis
- LCD Display: Spindle speed value, processing feed rate value



Computer Control Center

CNC machine tools

USB □








Wireless receiver













Wireless pulse generator












In order to signal stability of the receiver to be installed outside the chassis



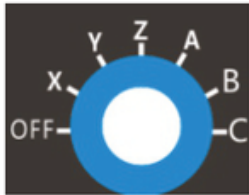

In order to signal stability of the receiver to be installed outside the chassis

- 1 Insert the USB receiver, wait for the automatic driver installation is completed.
- 2 The drivers (in the CD inside) XHC-ShuttlePro.dll copied to \Mach3 \ Plugins.
- 3 The all macro files (in the CD inside macro folder) copied to .. \ Mach3 \ macros \ under Mach3Mill.
- 4 Wireless MPG, install 2 AA batteries, turn on the power switch, you can normally use.


Icon	功能 Function
	RESET button
	Stop button
	Start/Pause button:When machine stops,press the button,machine starts to work;When machine is working, press the button,machine stop working
	Macro-1/Feed+ button:When press the button alone,macro function-1 works; When press the  ,Processing speed increase.
	Macro-2/Feed- button:When press the button alone,macro function-2 works; When press the  ,Processing speed decreases.

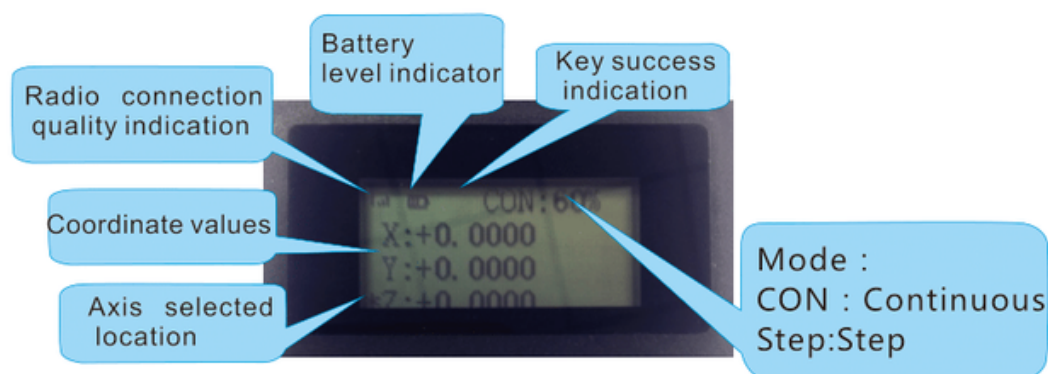
Icon	功能 Function
	<p>Macro-3/Spindle- button:When press the button alone,macro function-3 works; When press the  + ,Spindle speed increases.</p>
	<p>Macro-4/Spindle- button:When press the button alone,macro function-4 works; When press the  + ,Spindle speed reduction.</p>
	<p>Macro-5/M-HOME button:When press the button alone,macro function-5 works; When press the  + ,refer all home.</p>
	<p>Macro-6/M-HOME button:When press the button alone,macro function-6 works; When press the  + ,Return to the safe height of the Z axis</p>

Icon	功能 Function
	Macro-7/W-HOME button:When press the button alone,macro function-7 works; When press the  +  ,go to zero work.
	Macro-8/S-ON/OFF button:When press the button alone,macro function-8 works; When press the  +  ,Spindle on or off.
	Macro-9/ probe-Z button:When press the button alone,macro function-9 works; When press the  +  ,probe Z
	Macro-10 button:press the button,macro function-10 works.
	Function button:When you press the button, then press the other button to achieve the combination function.

Icon	功能 Function
	<p>MPG button:press the button,Hand wheel into Continuous mode.</p>
	<p>Step button: press the button,Hand wheel into Step mode</p>
	<p>Axis selection band switch: OFF position to switch off MPG X, Y, Z, A, B, C: 6 axis selection function.</p>
	<p>0.001 (2%) 0.01(5%) 0.1(10%) 1.0(30%) 60% 100% Lead:</p>

to control the various function of the hand wheel through the band switch

Icon	功能 Function
	<p>Selection speed :</p> <p>0.001 (2%) :When handwheel in Step mode,move unit 0.001;when in Continuous mode,move speed is 2%</p> <p>0.01(5%):When handwheel in step mode,move unit 0.01;when in Continuous mode,move speed is 5%</p> <p>0.1(10%):When handwheel in step mode,move unit 0.1;when in Continuous mode,move speed is 10%</p> <p>1.0(30%):When handwheel in step mode,move unit 1.0;when in Continuous mode,move speed is 30%</p> <p>60%:When handwheel in Continuous mode, move speed is 60%</p> <p>100%:When handwheel in Continuous mode,move speed is 100%</p> <p>Lead location : Processing Lead mode;By shaking the MPG to change the processing speed</p>





Explantion :

Key success indication:When you press the button,the receiver receives the key value,the indicator flashes about,indicating successful key operation.

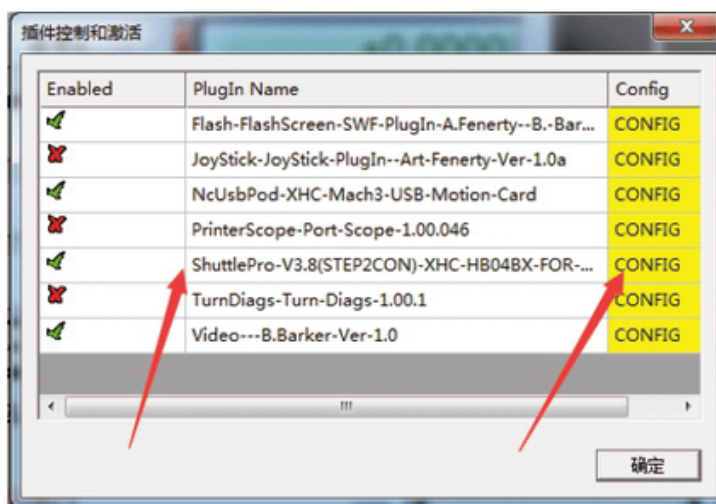
Speed indicator:When you press MPG button,band switch to select 2%,5%...,LCD display CON and different speed.When you press Step button,band switch to select 0.001,0.01...,LCD display Step and different speed.

Axis selected location:Axis selection switch position,LCD display axis selected. X: X axis workpiece coordinate axis, X1: X axis mechanical coordinate



When the wireless USB receiver is connected MPG and unsuccessful (eg USB receiver does not plug in the computer), the wireless MPG's LCD will appear as follows:

Open Mach3 and go to the "Config" menu choice and select "Config Plugins". You should see "ShuttlePro-V3xx-XHC-HB04BX-FOR-MACH3", Click the "CONFIG" in yellow and macro button function as you wish.



Plugin instructions

XHC HB04BX-3.8-Configuration

Custom Key As You Do

Macro-1

- Custom Macro #1
- Custom Macro #2
- CV feed toggle
- Cycle MPG jogging mode
- Flood on/off
- FeedUp
- FeedDn
- Feedrate reset
- Goto Z's
- Go Home
- Goto Safe_Z
- Home All
- Home Z (Turn)
- Home X,Home Z
- Ignore Tool Change togg
- Jog Follow
- Jog Toggle
- Jog Step Incr++
- Jog Step Incr--
- Jog increment cycle
- Joystick Toggle
- Jog Step/Conti/MPG
- Lock/Unlock Movement
- Lock/Unlock Shuttle

Macro-1

Custom Macro #1

Macro-2

Custom Macro #2

Macro-5

Custom Macro #5

Macro-6

Custom Macro #6

Macro-9

OEM Button #1

Macro-3

Custom Macro #3

Macro-4

Custom Macro #4

Macro-7

Custom Macro #7

Macro-8

Custom Macro #8

Macro-10

OEM Button #2

Please input Mach3 OEM Button Code Number:

Custom OEM Code #1

0

Custom OEM Code #2

0

Please input M Code Number, then choose it in Macro box

Macro number 1

0

Macro number 3

930

Macro number 5

0

Macro number 7

0

Macro number 2

0

Macro number 4

0

Macro number 6

0

Macro number 8

0

ResetToDefault

OK

Custom OEM Code #1

1001

Macro number 1

930

2. After Click the yellow "CONFIG", there will be plug-in settings interface, according to the following method set.



First step:Click the Macro-1 drop-down menu button,choice "Custom Macro#1" , Macro-2 choice "Custom Macro#2", And so on.Click Macro-9 drop-down menu button,choice "OEM Custom Code#1" , Macro-10 choice "OEM Custom Code#2" .

Second step:In the following "Macro Number" input M code you need.Macro-1 corresponds to Macro number 1. and so on. Macro-9 corresponds to OEM Custom Code#1, Macro-10 corresponds to OEM Custom Code#2.

(The M code you entered must be copied to the Mach3> macro>Mach3Mill folder)

