



Application system: MACH3

MACH3

The MACH3 wireless MPG instructions
for the MACH3 system



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
















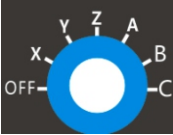
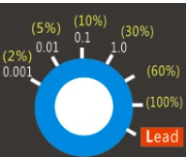
In order to signal stability of the receiver to be installed outside the chassis

- 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.

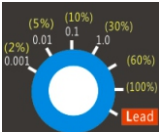
Icon	功能 Function
	RESET button
	Stop button
	Start/Pause button:When machine stops,press the button,machine starts to work;When machine is working, press the button,machine stop working
	Macro-1/Feed+ button:When press the button alone,macro function-1 works; When press the  ,Processing speed increase.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

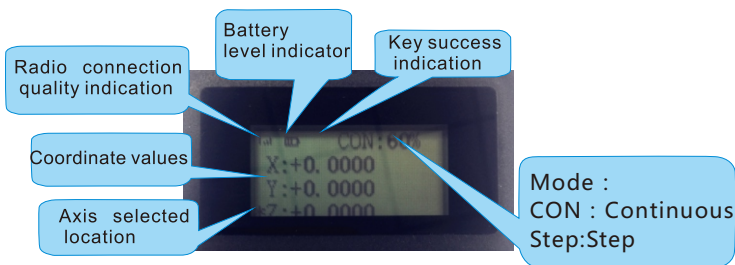
Icon	功能 Function
	<p>Macro-3/Spindle- button:When press the button alone,macro function-3 works; When press the  + ,Spindle speed increases.</p>
	<p>Macro-4/Spindle- button:When press the button alone,macro function-4 works; When press the  + ,Spindle speed reduction.</p>
	<p>Macro-5/M-HOME button:When 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
	<p>Macro-7/W-HOME button:When press the button alone,macro function-7 works; When press the  + ,go to zero work.</p>
	<p>Macro-8/S-ON/OFF button:When press the button alone,macro function-8 works; When press the  + ,Spindle on or off.</p>
	<p>Macro-9/ probe-Z button:When press the button alone,macro function-9 works; When press the  + ,probe Z</p>
	<p>Macro-10 button:press the button,macro function-10 works.</p>
	<p>Function button:When you press the button, then press the other button to achieve the combination function.</p>

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>



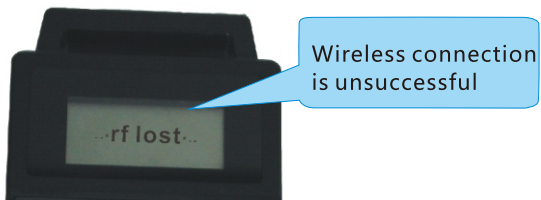


Explantion :

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

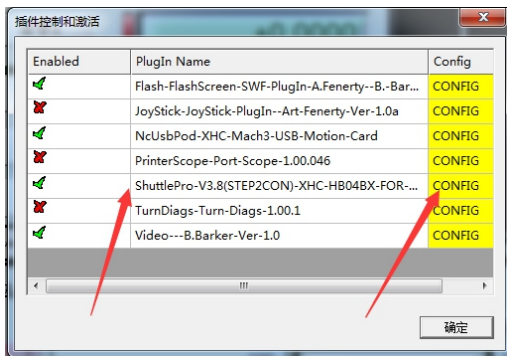
Speed indicator:When you press MPG button,band switch to select 2%,5%...,LCD display CON and different speed.When you press Step button,band switch to select 0.001,0.01...,LCD display Step and different speed.

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 HB048X-3.8-Configuration

XHC Custom Key As You Do

Macro-1

- Custom 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	Macro number 1	Macro number 3	Macro number 5	Macro number 7
0	0	930	0	0
Custom OEM Code #2	Macro number 2	Macro number 4	Macro number 6	Macro number 8
0	0	0	0	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)