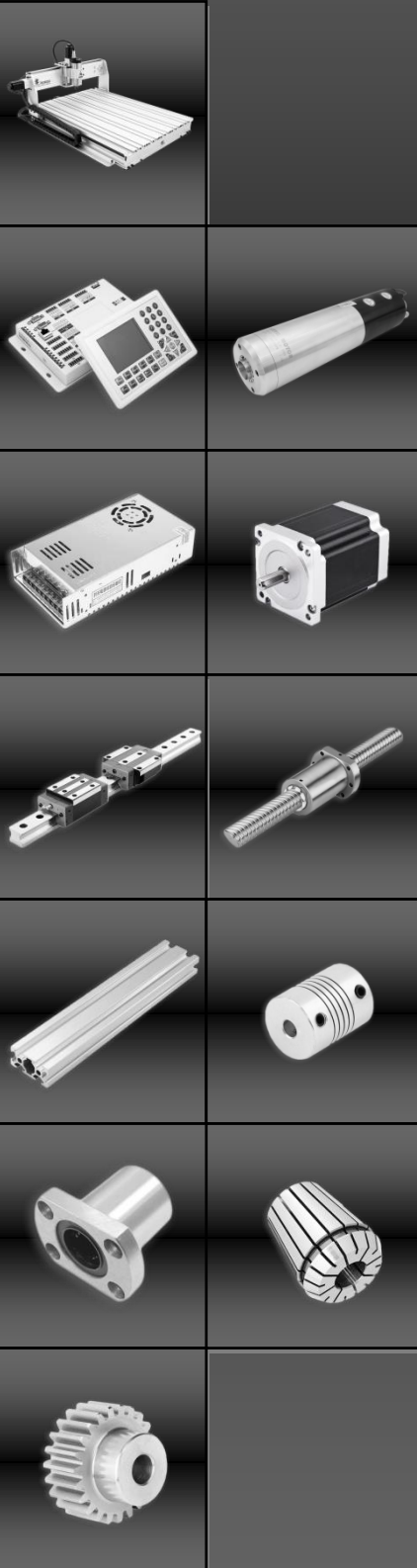




# CNC PROM



Інтернет – магазин комплектуючих для верстатів з ЧПУ



## Провідний пульт управління LHV03B



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**WHB03B型**

- 无线使用距离40米  
Wireless effective distance of 40 meters



产品名称 Name	工作电压 Voltage	工作电流 Current	备注 Note
无线USB接收器 Wireless USB Receiver	4.5V ~ 5.0V	小于50mA Less than 50mA	
无线电子手轮 Wireless MPG	1.5V ~ 3.0V	平均电流小于2mA Average Current Less than 2mA	2000MAH的2节电池能使用2个月 Use of time More than 2 months USE Two 2000MAH Battery

注明:

本产品与上一代产品相比,增加了电量显示,LCD显示屏上有电量信息显示。当电量过低时,请及时更换电池,以免影响使用。  
LCD display on the electricity information display. When the power is too low, please replace the battery in time, so as not to affect the use of.

序号 No.	性能参数描述 Performance or Parameters Description
1	采用ISM频段433MHZ通讯,发射功率10DB,接收灵敏度-98DB Using ISM band 433MHZ communication, transmit power 10DB, receive sensitivity -98DB
2	有32个跳频频道,每个频道间隔1MHZ 32 frequency hopping channels, each channel interval 1MHZ
3	空旷直线传输距离大于15米 Open straight transmission distance of more than 15 meters
4	智能无线技术,实现自动跳频,自动节约功能,自动ID码学习 The protocol designed with high performance, low power consumption, automatic learning ID number
5	采用跳频技术,抗干扰能力强 Using frequency hopping technology, strong anti-interference ability
6	采用跳频技术,同一个房间可以同时使用32套设备,没有干扰 Using frequency hopping technology, the same room can use 32 sets of equipment at the same time, there is no interference

## ● 使用示意图 Use of schematic

机床控制面板  
Computer Control Center

机床  
CNC machine tools



Usb口无线接收器  
Wireless receiver



雕刻机无线电子手轮  
The wireless MPG manual

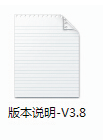
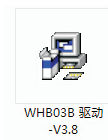
备注：为了信号的稳定，请将接收器安装在机箱外面（不能安装在机箱内部）

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

## ■ 第1步: ( Step 1)

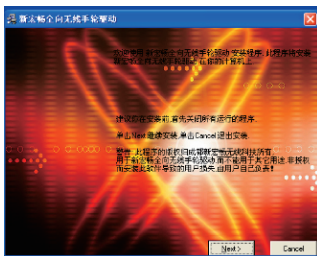
安装驱动: 将光盘放入光驱, 安装无线电子手轮的驱动, 按照电脑提示, 直到安装成功, 并结束安装。

Install the driver: CD into the drive CD-ROM, installing a wireless electronic handwheel, according to computer tips, Until the installation is successful, and the end of the installation



鼠标双击图标, 开始安装驱动

Double click the icon to begin installing the driver



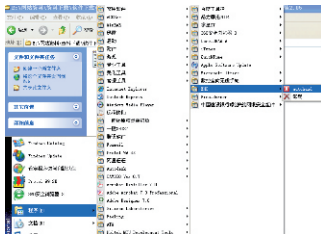
按照安装提示, 直到驱动安装完成

Please follow the computer prompts, Set up the Driver Software Until finished Set up

## 操作使用步骤说明 Use the steps Description

### ■ 第2步: ( Step 2)

打开软件: 打开刚刚安装的驱动软件, 然后再打开数控系统软件NcStudio  
OPEN The Driver Software, then Open The NcStudio Software



从开始菜单里边打开刚刚安装的驱动  
From the Start menu to open just installed the driver inside



运行驱动后, 出现驱动图标  
Run the driver, the driver icon

### ■ 第3步: ( Step 3)

将无线USB接收器, 插入电脑的USB接口。如果是第1次使用, 电脑会提示找到新硬件设备……

等待USB驱动自动加载成功。插入USB接收器后, 图标显示如下:

Please Insert Wireless USB Receiver into USB Jack

If this is the 1st use, the computer will be prompted to find a new hardware device; Automatically install the USB driver to wait for success.

USB receiver is inserted, the icon is displayed as follows:



插入接收器后, 图标变灰  
Receiver is inserted, the icon is grayed out

## ■ 第4步：（ Step 4 ）

启动维宏系统软件，图标变成红色

Start Ncstudio system software, the icon turns red



启动维宏系统软件，图标变成红色

Start Ncstudio system software, the icon turns red

## ■ 第5步：（ Step 5 ）

将无线电子手轮装上2节AA电池，注意电池的正负方向  
按下电源按钮，正常情况，显示屏有坐标显示。






Install 2 AA batteries, press the power button, under normal circumstances, the display has a coordinate display



## ● 使用功能描述 Features Description

### ■ 按键功能描述 ( Button Features Description )

对应图标 Corresponding icon	名称 Name	按键功能描述 Key function description
	取消按钮 Cancel button	当软件出现选择界面时,按下该键,选择取消 When the selection screen appears, press the button, select NO
	确认按钮 Confirm button	当软件出现选择界面时,按下该键,选择确认 When the selection screen appears, press the button, select YES
	停止按钮 Stop button	当机床处于运行状态时,按下该键,机床复位 停止加工 When the machine is running, press the button, the machine reset, Stop processing
	开始/暂停 Star/Puse	按下该键,程序开始运行;再次按下该键,程序 停止运行 Press the button, the machine starts to run;press the button again, the machine stop running
	断点继续 Keep on	当程序中断后,按下该键,从程序中断处开始 运行 When the program is interrupted, press the button, running from the interruption of the program
	对刀 Probe	当按下该键,机床执行对刀操作,同时需要按 下确认或者取消按键,选择是否执行对刀操作 When you press the button, the machine operating the knife. at the same time need to press YES or NO choose button.



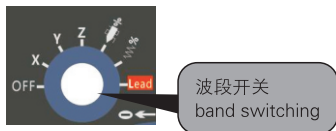
对应图标 Corresponding icon	名称 Name	按键功能描述 Key function description
	回安全点 Safe Z	当按下该键,机床Z轴回到安全高度 When you press the button, the machine Z axis back to safety height.
	回工件原点 Back to the origin of workpiece	当按下该键,机床返回工件原点 When you press the button, the machine back to the origin of workpiece.
	坐标/2或者 清零 coordinates 1/2 or zero	当按一下该键,坐标值除以2;长按该键,坐标值清零;当返回机械原点时,按下该键,返回X轴的机械原点 When you press the button, coordinates 1/2, press the button for long time, coordinates zero. When back to the mechanical origin, press the button, back to X-axis mechanical origin.
	微调按钮 Fine adjustment button	当你按下该键,配合手轮,对X.Y.Z轴运动进行微调.当返回机械原点时,按下该键,返回Y轴的机械原点 When you press the button, with the handwheel, fine-tuning of the X.Y.Z axis movement. When back to the mechanical origin, press the button, back to Y-axis mechanical origin.
	主轴启动/停止 Spindle start / stop	当你按下该键,主轴启动,再次按下该键,主轴停止.当返回机械原点时,按下该键,返回Z轴的机械原点 When you press the button, spindle start, press the button again, spindle stop. When back to the mechanical origin, press the button, back to Z-axis mechanical origin.




	<p>返回机械原点 Back to the mechanical origin</p>	<p>当你按下该键,出现返回机械原点提示 When you press the button,Appear back to the mechanical origin tips 1.再按下X轴按键, 返回X轴机械原点 press X-axis button,back to the meachanical origin 2.再按下Y轴按键, 返回Y轴机械原点 Press Y-axis button,back to the meachanical origin 3.再按下Z轴按键, 返回Z轴机械原点 press Z-axis button,back to the meachanical origin 4.再按下确认按键, 返回所有轴的机械 原点 press the YES button,back to all axis meachanical origin</p>
	<p>工件坐标/机械 坐标切换 Workpiece/ mechanical coordinate switch</p>	<p>当按下该键,显示的工件坐标切换到机械 坐标 When press the button,switch display the workpiece coordinate and mechanicalcoordinate</p>

### ■ 波段开关功能说明 ( Band switch Functional Description )

波段开关对手轮功能起到控制作用，手轮的各种功能，通过波段开关的档位切换，而进行相应切换

Band switch control opponents play a round of functional role of the various functions of Hand wheel, gear change through the band switch, and switch accordingly



档位图标 display icons	图标名称 Icon name	功能描述 Functional Description
	OFF档位 OFF stalls	关闭手轮功能，平时不用手轮，需要将波段开关处于OFF状态，以防止对手轮的误触发和节约功耗，延长电池使用寿命 Off Hand wheel function, usually do not hand wheel, needs to be the band switch is in OFF state to prevent false triggering round opponents and saving power consumption and extend battery life
	X轴 X-axis	当进行微调或手动调节的时候，摇动手轮对X轴进行移动控制 当摇动手轮速度为4圈/秒：则进入高速移动机床 When fine-tuning or manual adjustment of the time, shake the hand wheel on the X axis motion control
	Y轴 Y-axis	当进行微调或手动调节的时候，摇动手轮对Y轴进行移动控制 当摇动手轮速度为4圈/秒：则进入高速移动机床 When fine-tuning or manual adjustment of the time, shake the hand wheel on the Y axis motion control

## ●使用功能描述 Features Description

档位图标 display icons	图标名称 Icon name	功能描述 Functional Description
	Z轴 Z-axis	<p>当进行微调或手动调节的时候，摇动手轮对Z轴进行移动控制</p> <p>当摇动手轮速度为4圈/秒：则进入高速移动机床</p> <p>When fine-tuning or manual adjustment of the time, shake the hand wheel on the Z axis motion control</p>
	手轮引导 Hand wheel Lead	<p>当机床处于运行状态下（对应的LCD屏上的运行图标闪烁）；摇动手轮，可以控制加工快慢和暂停运行控制。在机床处于停止状态下，和暂停状态下，手轮引导不起作用</p> <p>When the machine is in running state (corresponding to run on the LCD screen flashing); shake the hand wheel to control the processing speed and the suspension of operational control.</p> <p>The machine is stopped state, and pause state, the Hand wheel Lead does not work</p>
	进给速度控制 Feed speed control	<p>当进给速度控制模式下，LCD屏幕显示进给的预设值和实际值，摇动手轮可以调节进给的快慢控制</p> <p>When the feed speed control, LCD screen displays the default value of the feed and the actual values, shaking the hand wheel can adjust the feed speed control</p>
	主轴转速控制 the spindle speed control	<p>当主轴转速控制模式，LCD屏幕显示主轴转速的预设值和实际值，摇动手轮可以控制主轴转速的快慢设置。</p> <p>When the spindle speed control mode, LCD screen displays the default value of spindle speed and the actual values, shaking the hand wheel to control the speed of the spindle speed setting.</p>

- 当波段开关在X, Y, Z, A档时, 显示坐标信息

When the band switch in the X, Y, Z, A gear display coordinate information



### Switch coordinate

当按下切换按键时, 工件坐标变为机械坐标; 再次按下该按键, 显示工件坐标

When you press the switch button, the work coordinate into mechanical coordinates; when you press the button again, display workpiece coordinate

倍率选择开关的1X/10X/50X/100X/Continue五个档位分别对应LCD显示屏显示的0.01/0.10/0.50/1/Jog

## ● 应用软件操作说明 LCD Display DescriptioApplication software instructions

启动驱动软件后，会在电脑任务栏显示驱动图标，如下图：

After starting the driver software, will be displayed on the computer taskbar drive icon, as shown below:



启动驱动后，会显示我们的驱动图标  
Boot drive, we will show the drive icon

### ■ 图标状态指示遥控器的工作情况：

The icon status indication the remote control:

Insert the wireless USB receiver, but cutting system software is not open

#### ● 没有插入USB无线接收器

Did not insert the USB wireless receiver



没有插入USB无线接收器  
Did not insert the USB wireless receiver

#### ● 插入了的无线USB接收器，但是切割系统软件没有打开

Insert the wireless USB receiver, but cutting system software is not open



插入了无线USB接收器，但是切割系统软件没有打开  
Insert the wireless USB receiver, but cutting system software is not open

#### ● 工作正常：插入了无线USB接收器，切割系统软件打开

Working properly: Insert the wireless USB receiver, cutting system software open



工作正常：插入无线USB接收器，切割系统软件打开  
Working properly: Insert the wireless USB receiver, cutting system software open