切割雕刻一体控制系统

- 上层软件说明书 -

Cutting engraving integrated control system

-Upper software specification -

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Upper-layer so	oftware	operation	instructions

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Chapter 1 Overview

1.1 introduction to numerical control system

software

Cutting is shenzhen far CNC carving a whole control software co., LTD., set many years of industry experience, the famous r&d team to establish a compatible laser cutting engraving of CNC products. The software is easy to learn, mature and stable motion control algorithm, cutting and engraving process is complete, friendly man-machine interface, applies to clothing, acrylic, furniture and other non-metallic laser cutting engraving control.

1.2Composition of control system

Control system consists of hardware (movement control CARDS and accessories) and the software of two parts.

1.3Software Installation requirements

Hardware requirements: cy young more than 2.1 G CPU, memory, hard disk 256 m or more above 20 G

Software requirements: Microsoft Windows operating system (Window2000, WinXP)

1.4 Installation Introduction:

Please choose according to your Windows version:

(1) Software installation

PowerCut_2023.03.31

Software installation package ______ after decompression can see the software installation all the file folder:



Softlng is a software install language pack, CompanyCN, CompanyEN, CompanyTC is a configuration file, Information update. The md is a software update, logo.ico file is decided to software installation exe executable file will be displayed after the completion of the icon, can be change according to the requirement of the user, as long as the name consistent. Powercut x86 is software installer, detailed below.

Double-click the Powercut x86 start after installation, install the welcome screen, click on the red arrows indicate the next step:

Williosoft visual C++ 2000 Redistributable 323812/3			\sim
欢迎使用 Iicrosoft Visual C++ 2008 Redistributable 安装程序			
此向导将引导您完成整个安装过程。			
5			
ł	ļ		
世一五	(N)	取消(C)	

License terms, first click on the red arrow mark 1 "I have read and accept the license terms and conditions", then click on the red arrow mark 2 "install", then wait for the installation is complete:



Click on the red arrows indicate the "finish" :

i Microsoft Visual C++ 2008 Redistributable 安装程序			×
安装完成			
已成功安装 Iliorosoft Visual C++ 2008 Redistributable	o		
强烈建议您下载并安装此产品的最新 Service Pack 和安全更新。			
有关详细信息,请访问以下网站:			
<u>产品支持中心</u>			
		Ţ,	
		▼ 実成(F)	
		7G394 (¥ 7	

Can click on the red arrows indicate 1 first installation target path choice, then click on the red arrows indicate 2 into the "next" (or directly click on the red arrows indicate 2 into the "next")



First click on the red arrow mark 1 "select language", then click on the red arrow mark 2 "finish" : (if enter the software or show Chinese, here is about how to back English mode)



At this point, cutting engraving integrated control system software installation is complete. Create a desktop shortcut to complete at the same time.

(2) Set the network IP address

When using network communications, please manually changing IP address:



Find Ethernet, double click the mouse,

Property changes:



(🔋 以太网 状态			\times
	常规			
X	连接 ——			
2	IPv4 连接:		无网	络访问权限
e	IPv6 连接:		无网	络访问权限
1	媒体状态:			已启用
	持续时间:			00:24:05
	速度:		1	00.0 Mbps
	详细信息(E)		
	活动 数据包: ● 属性(P)	已发送 —— 4 ◆禁用(D)	参断(G)	已接收 0
				关闭(C)

🖗 11.1.1	网 属性	
网络	共享	
连接	时使用:	
7	Intel(R) Ethernet Connection (16) I219-V	
	配置(C)	
此连	接使用下列项目(O):	
	Microsoft 网络客户端	1
		l
	PNeu GigEVision Image Filter Driver	l
	-QoS 数据包计划程序	l
		l
	_ Internet 协议版本 4 (TCP/IPv4)	l
	Microsoft 网络适配器多路传送器协议	l
•	■ Microsoft LLDP 协议驱动程序	
	安装(N) 卸载(U) 属性(R)	
描述	*	
Æ	→ 输烧制协议/Internet 协议 这协议早野认的广场网络协议 田	
Ŧ	在不同的相互连接的网络上通信。	
	TAC BOOK	
	(明)上 收/月	

Internet 协议版本 4 (TCP/IPv4) 属性		×
常规		
如果网络支持此功能,则可以获取自动 络系统管理员处获得适当的 IP 设置。	指派的 IP 设置。否则,你需要从网	
○ 自动获得 IP 地址(O)		
● 使用下面的 IP 地址(S):		
IP 地址(I):	192.168.10.32	
子网掩码(U):	255 . 255 . 255 . 0	
默认网关(D):		
○ 自动获得 DNS 服务器地址(B)		
●使用下面的 DNS 服务器地址(E):		
首选 DNS 服务器(P):	• • •	
备用 DNS 服务器(A):	• • •	
□ 退出时验证设置(L)	高级(V)	
	确定取消	

After the completion of the, change the point.

Software installation is complete, and after the completion of the network Settings, software with the laser machine can realize communication with each other.

1.5 Software Features

- > Friendly interface, easy to learn, easy to operate.
- Compatible with AI, BMP, PLT, DXF, DST, and other graphics data format.
- Can make simple graphics, text and to import the data editing and typesetting.
- Can, a multi-level hierarchical processing and define the output sequence.
- Personalized Settings, and the precision of laser trajectory simulation shows.
- A variety of path optimization function, suspension in the manufacturing process of function.
- > Graphics and processing parameters of multiple preservation

methods and use again.

- Processing time estimates and function of cost budget, intelligent typesetting input.
- Unique cutting a body system can well realize cutting and engraving intermittent motion trajectory and work independently and compensation control function.
- According to the different requirements of processing processing can set the starting point, dock work path, laser head position, etc.
- Compatible with a variety of communication methods, the user can according to the actual situation by using USB port communication or network communications.
- > During processing, real-time control function.
- Power-off protection function, the power loss in the processing, the system can remember the breakpoints, restore power after can quickly find the breakpoint to continue processing.

1.6 Interface Description

Double-click the desktop shortcut to enter the main interface:



The main interface as shown in the figure below:



Chapter 2 Menu Items

2.1 File menu items

Click on the menu bar File icon or press Alt + F keyboard shortcut to open the file menu. . 序 智远数控切割软件 - [laser1] File Edit Settings Tools View Help New (N) Ctrl+N Ctrl+N Open... Ctrl+O i 🖉 Ctrl+O Import file ÷) -Export file Close Save Ctrl+S Ctrl+S 1 C:\Users\...\切割\plt\555.plt 2 C:\Users\...\切割\航天飞机.pct2 3 微信图片_20230214103844.pct2

> New: create a new file processing, can press the keyboard

shortcut Ctrl + N or the menu bar The new file.

4 C:\Users\...\切割\34.pct2

Exit

> Open: opens the file at software support, software support file types include:

All files	\sim
All files	
Pot2Laser file	
PLTDrawing file	
AI	ł
DSTEmbroidery file	- 1
dxf	
Image filebmp jpg jpeg png gif tiff	_

➤ Import: icon →, · import file to edit graphics editing area, the software support DXF/PLT/AI/PCT/BMP/DST/JPG/JPEG

file format.

- Export: the corresponding icon on the toolbar, this software can output DXF/PLT/BMP three file format, enter a file name and click the "save" button.
- Closed: delete file processing, can press Ctrl + c keyboard shortcuts.
- > Save: to save the current graphics editing for PCT file, you

can press Ctrl + s shortcut menu icon save the file.

Exit: exit PowerCut software, can press Alt + X shortcut key to exit.

Tip: the difference between PCT and the CUT file, PCT is PowerCut software save file format, can open in the PowerCut software for editing. The CUT file is laser processing, PCT file through PowerCut software into the CUT, and then import the numerical control system. The CUT file can't open and edit in PowerCut software, PCT file have no direct import numerical control system.

2.2 Edit menu items

Click on the menu bar icon or press Alt + E keyboard shortcut to open the edit menu.



- > Undo: undo the last operation, can undo continuously.
- Repeat: cancel the inverse operation, restore the last undo operations.
- Shear: shear the currently selected object, the currently selected object disappears, the shortcut Ctrl + X.
- > Copy: copy the currently selected object, the currently selected object, the shortcut Ctrl + C.
- Paste: and cut or copy, paste the object, the shortcut Ctrl + V.
- Rotation: first is to use the mouse to rotate selected graphics then can rotate Angle has 90, 180, 270.
- Edit mode: after the selected graphic, click on the icon, graphics edit points, mobile editing point can edit graphics, this feature is mainly used in the figure, such as processing and graphical interface:



click the edit button

graphic appears

the mouse



Flip horizontal: flip horizontal on the selected graphic below:



> Flip vertical: flip vertical on the selected graphic below:

2.3 Set menu items



- Parameter Settings: details refer to chapter 3 standard toolbar.
- > Equipment connection: details refer to the third chapter 3.18.

- Bitmap, power Settings: power map.
- Embedded CoreDraw: embedded point of the drawing software, after the success of the embedded in the drawing software

generates a icon , after drawing software make graphical point the software can directly cut the graphics import.

Embedded CAD: embedded point of the drawing software, after the success of the embedded Powercut in the drawing software generates a graph, mark, after drawing software ready graphics point the software Powercut can directly cut the graphics import and direct import control card.

2.4 See about menu items

Click on the menu bar tools icon or press Alt + V keyboard shortcut to open the view menu.



Counting unit:0 Overweight tooth:

	-1 +1	Width	2.5	mm
Size	36	Height	2.5	mm
	Half Size	Space	2	mm
	Internal	Half Space	5	mm
	Coloct	Saure		

Overweight tooth:

料宽度:	1600	mm	
确定	取消		
	确定	确定 取消	确定 取消

2.5 View menu items

Click on the	menu bar View	Icon t	o open the vi	ew drop-down menu.
		Viev	v Help	
		~	Common use	
		~	Create	
		~	Move quickly	
		~	Layer	
		~	Edit	
		~	View	

🗠 🗡 🖈 🗋 🛈 🐼 💿 🖌 🔄 1 Create: \geq 🗎 🕂 🕂 📕 🗐 🚛 🕂 📲 Fast moving: \geq The layer: \triangleright \triangleright Edit : E I 173.565 Y. 465.955 ↔ 160.127 # 157.352 🚖 90 🗸 🕑 🛝 🐳 🔲 🔾 ~ 🔲 🔡 🔂 🗗 🗗 👘 🔽 🦷 \geq View: 电话:(086)0755-2951

2.6 Help Menu Item



原注册码: 547	1	0716	8984	2806	复制
新注册码:					注册
升级					
路径:					

- ➤ After registration method: expires in the original registration code from the manufacturer to obtain a new registration code, after the new 16 registration code in the input box, click on the register.
- ➤ Upgrade method: get upgrade file from vendors, saved to the computer the location specified, click when upgrade path , found in specified location update file, and then click upgrade .

select_____

, pop up on the window, show the related

information.

关于 Powe	rCut	
	公司:	智远数控有限公司
	地址:	广东深圳
	电话:	0755-27350412
	传真:	0755-29513592
	网站:	www.szzymene.com

Chapter 3 Standard Tools

Standard toolbar, realized the general file editing operations, as shown in the figure below:

|| 🗋 🛥 🖬 🕁 🏠 🐰 🗈 🎕 🖕 🖄 🖳 😓 🗠 🖑

3.1 Create a file

The corresponding icon on the toolbar^D, used to create a new graphic editing area, shortcut Ctrl + N.

3.2 Open the file

The corresponding icon on the toolbar , H\have a DXF file format/PLT/AI/PCT/BMP/DST/JPG, JPEG, is the shortcut Ctrl + 0.

3.3 Save the file

The corresponding icon on the toolbar , to save the current edit graphics and processing parameters for extension. PCT file, is the shortcut Ctrl + S.

3.4 Import

The corresponding icon on the toolbar $\stackrel{\frown}{\Box}$, import files to figure editing area for editing, the software supports

DXF/PLT/AI/PCT/BMP/DST/JPG/JPEG file format, etc.

Tip: the difference between import and open, import file is the image file is inserted into the document is currently editing, open the file is to load a file.

3.5 Export

The corresponding icon on the toolbar, this software can output PLT, DXF, BMP three file format, enter a file name and click the "save" button.

3.6 Cutting

The corresponding icon on the toolbar $\overset{\bullet}{\overset{\bullet}{\overset{\bullet}{\overset{\bullet}{\overset{\bullet}}}}$, select graphics object and click on the icon, to modify selected graphics to shear, shortcut Ctrl + X.

3.7 Copy

The corresponding icon on the toolbar , click on the icon after selected graphics, copy the current graphics to the clipboard, the corresponding shortcut key Ctrl + C.

3.8 Paste

The corresponding icon on the toolbar, click on the icon is to copy or cut graphics paste in the current graphics editing area, the corresponding shortcut key Ctrl + V.

The corresponding icon on the toolbar \checkmark , deregulation of the current file on one step operation, the shortcut Ctrl + Z.

3.10 Restore

The corresponding icon on the toolbar, on the recovery of the current file step operation, the shortcut Ctrl + R.

3.11 Shift

The corresponding icon on the toolbar , The overall current graphics editing the mobile location.

3.12 Zoom in on all objects

The corresponding icon on the toolbar , in a graphical editor area all objects can be maximized.

3.13 Shrinking all objects

The corresponding icon on the toolbar, display all the objects in graphics editing area can be minimized

3.14 Displaying the Page

The corresponding icon on the toolbar \mathbb{Q} , in a graphical editor area shows the entire page.

3.15 Local amplification

The corresponding icon on the toolbar \bigcirc , in a graphical editor area box to choose zoom in graphics.

3.16 Set parameters

The corresponding icon on the toolbar $^{\textcircled{}}$, in this setting system related parameters, the following details.

		play Parameters	Display parameters Disp
	English 🗸	Display language	Working parameters Device parameters
mm	0.20000002980	Paste spinner:	User parameter
mm	1	Move fine-tuning:	
		Show Grid	
mm	50	Grid Spacing:	
		Fill engraved graphics	
	Take effect after reopen)	Single Document Mode	

System parameter Settings page has four tabs: display parameters, process parameters, equipment parameters, user.

3.16.1 Display Parameters TAB:

- Display language:select language.
- > Paste spinner: set the precise mobile distance size.
- Move fine-tuning: set and distance between the original image, and the original position in the original 45 degrees in direction.
- Shows the grid: selected graphics editor in the area to display the grid.
- > The grid spacing: set the grid interval size.
- Fill engraving graphics: tick will fill the carving graphics, not tick not filled, the benefits is reduce the amount of data, load data is not too slow, below figure (2) (1) as the box to box:





- > Sure: save the parameter Settings.
- > Application: application of the current set of parameters.
- Single Document Mode(take effect after reopen):A single document or multiple document work patterns.

3.16.2 Process Parameters TAB:

Display parameters	Process para	neters			
Working parameters	Divided cutt	ing			
 Device parameters User parameter 		Enable			
		Divided Page Size	1000	mm 🔽	
		Additional Feed Length	0	mm	
		X Offset	0	mm	
	Mirror image	processing			
		Mirror image processing			
		Space between two heads	366	mm 🖂	
		Mirroring interrupt length	50	mm	
	Brush				
		Brush Offset X	0	mm	
		Brush offset Y	0	mm	
		Smooth level	_	50	

Divided cutting:

- Enable: when machining data beyond the wide, can joint conveying mechanism for continuous cutting. After cutting the current layout, feed cutting under the complete version.
- > Divided Page Size: we set y height.
- > Additional Feed Length:Clearance compensation.
- X Offset: complete next page after feeding, the two version of the spacing between the x direction will have a certain deviation, cut off by setting correction.

Mirror Image processing:

- Mirror Image processing: vertical and horizontal mirror mirror.
- > Space between two heads: back to the origin, the distance

between the double. Available to create a way of light dot measurement input again, this value is measured accurately, otherwise it will effect the precision of separately.

> Mirror interrupt length: After a mirror line interrupt length.

Brush: mainly used for marking speed.

- Brush brush offset X: offset X coordinate.
- Brush brush offset Y: offset Y coordinates.
- ➤ Smoothing level:Level 1-100.
- ➢ Sure: save the parameter Settings.
- > Cancellation: save the original parameter set.
- > Application: application of the current set of parameters.

3.16.3 Device Parameters TAB:

Display parameters	Device parameters					
Device parameters	Axis parameters					
Jser parameter	Xaxis Yaxis	Zaxis X2a	dis Y X3ax	xis Y X4axis Y Y2a	xis	
	Area:	1000	mm	Max Speed	1000	mm/s
	Pulse Equivalent:	3.14		Max Acc:	3000	mm/s^2
	Pulse:	Rising er 🗸		Max jerk:	200000	mm/s^3
	Pulse Dir:	Forward ~		Home When	No ~	·
	Key Dir:	Forward ~		Home Enable:	Yes 🗸	·
	Initial Speed:	5	mm/s	Home Speed:	50	mm/s
	Acc:	1000	mm/s^2	Home Return Dis:	10	mm
	Laser parameters					
	Laser Mode:	Simulatic 🗸		PWM FRQ:	2000	Hz
	Max Power:	100	%	Pre-excitation:	0	%
	Shot Power:	50	%	Shot Time:	10000	ms
	Coordinate	Upper Lefi	~			
	Import	Export	R	ead Bad	kup	Restore

Device parameters:

X axis parameters: (the other axis parameters meaning with the X axis meaning, but the setting value is different)

- Area: set the axis motion stroke, according to the machine size adjustment.
- Pulse equivalent:relative to the displacement of each pulse signal of machine tool moving parts called pulse equivalent, also known as the minimum setting unit. Click Settings pulse equivalent...., as shown in figure.

Pu	lse calculation			×
	theoretical calculation			
	The number of pulses per	0	pls	
	Actual running length of	0	mm	CALC
			-	
	Theoretical calculation:			
	The number of pulses per	0	pls	CALC
	Roller Diameter:	0	mm	
	Practical calculation			
	Theoretical length:	0	mm	
	Real length:	0	mm	CALC
	2		_	
	Pulse Equivalent:	3.14	um/pulse	
	ОК	Can	icel	
-				

The theoretical calculation:

- One motor pulse number: stepper motor; At 1.8 degrees, 32 subdivided driving machine, for example, one motor pulse number: 360/1.8 * 32-6400 (pulse). Servo motor. Panasonic servo A5, for example, PR008 parameter default PC sends ten thousand pulse motor turns a circle.
- Motor real walk a circle length: this value when mechanical design have been confirmed, about mechanical design department. Click on calculate, automatically calculate the pulse equivalent, click ok button to set the value to X pulse equivalent.

Practical calculation:

- Theoretical length: draw a 100 mm straight and level, theoretical length is 100 mm, to generate cutting processing documents. Actual length: the actual length of the measured by measuring tools and if 50 mm. Click on calculate, automatically calculate the pulse equivalent, click on button to set the value to X pulse equivalent.
- Pulse trigger edge: the rising and falling motor driver trigger along. Set this parameter is not correct, could lead to job cut

dislocation.

- Pulse direction(dir): adjust the direction of axis.
- Key direction(dir): change the direction of the keys. If it is found that the up and down or so key direction inside out, and back to zero normal word, change the parameters, is normal.
- Initial speed: set the initial speed of the shaft began, usually set 10 mm/s. General scope for the 5 mm/s to 30 mm/s.
- Acceleration(acc): the acceleration of the shaft running. General step motor with 500 mm/s2 to 2000 mm/s2. Typical values for 1500 mm/s2. Servo motor using a wide range, in the 500 mm/s2 to 5000 mm/s2. Typical values for 2000 mm/s2.
- > Maximum speed: set the speed of the shaft's largest can run.
- Maximum acceleration: the shaft maximum acceleration can run. Depending on the motor ability of the equipment. This parameter is used to specify the scope of the maximum speed of the shaft. Debugging good generally do not need to change.
- Max jerk: can set the shaft's largest run and acceleration. Depending on the motor ability of the equipment. This parameter is used to specify the scope of the maximum speed of the shaft. Debugging good generally do not need to change.
- ▶ Home when : : allows boot back to zero. No: boot back to zero.
- Home enabled: : then the axis allowed back to zero. No: the shaft back to zero.
- ➢ Home speed: back to zero.
- Home return distance: the X axis is set the distance between the origin and back to zero position.

The laser parameters:

> The laser mode: which related to the laser power supply interface connection. If the connection is simulated, the simulation, if the

connection is the laser power supply PWM input port, select PWM mode. And according to the different laser Equipped with ultraviolet light, optical fiber, etc. Depending on the laser power supply is configured.

- The maximum power: set the maximum output power of the laser. Laser port maximum output power, such as setting up 50% and 50% of the system, the power of the laser tube, namely half. This is usually set up 100%. The limitation on the maximum power usually does not make the request.
- > Shot power: set the preset percentage (some) power.
- > PWM frequency(FRQ): set the PWM wave frequency, please according to the characteristics of laser Settings.
- Percentage pre-excitation syndrome: setting normal power output. Equivalent to the output power of the minimum or zero. Usually set 0%.
- > Shot time: set the preset (some) light time.
- > Coordinate: Upper left, lower left, upper right, lower right.
- Import equipment parameters: will U disk parameters into the software.
- Export equipment parameters: the parameter is exported to the U disk.
- Read the equipment parameters: read the controller parameter setting in.
- Save backup: backup set current good parameters to control system is mainly for the convenience of you here in the need to use the last time set good parameters.
- Restore: is the parameters restore to the previous backup control system.
- ➢ Sure: save the parameter Settings.
- > Cancellation: save the original parameter set.

> Application: application of the current set of parameters.

3.16.4 User Parameters:

Display parameters	User parameters		
Working parameters	Speed parameter		
Device parameters User parameter	Cutting Start Speed	10	mm/s
	Engraving Start Speed	25	mm/s
	Cutting Acc	2000	mm/s^2
	Workking jerk	50000	mm/s^3
	Idle Acc	2500	mm/s^2
	Idle speed	300	mm/s
	Idle jerk	100000	mm/s^3

User parameters:

Speed parameters:

- > Cutting Start speed: Settings when cutting speed motor start.
- Engraving started speed: set to start in sculpture at the time of the motor speed.
- Cutting acc: the processing of acceleration. Acceleration at the general processing to run the acceleration of than empty to smaller, more can ensure the cutting effect is mainly.
- ➤ Working jerk: the acceleration rate. This is usually with the default value for a smooth, the mm/s2 and acceleration in 60000 to 80000 mm/s2, requirement quickly and smoothly, is transferred to the 100000 mm/s. To 150000 mm/s.
- > Idle speed: speed setting machine run path.
- > Machine run idle acceleration: set path acceleration.
- > Idle jerk: setting machine run path acceleration rate.

- ➢ Sure: save the parameter Settings.
- > Cancellation: save the original parameter set.
- > Application: application of the current set of parameters.

3.17 Connecting Devices

Click on the **button**, a device to connect dialog box, the diagram below:

No	Device name	address	Status	
	一号机	192.168.10.168	Online	
连接	th the state of t	F 刷新		修改名称

Equipment list: list the devices can be connected, including types, equipment information such as name, address, state. Article will highlight the moved to double-click, or click on the corresponding item 连接 button, Connect the device. Article will highlight the moved to click on the corresponding item 断开 button, disconnect the device.

Click on the button, page refresh equipment connection.

Network parameters: read the device name and IP address from controller parameters. Article highlighted will be moved to the corresponding item, fill in the device name field device name, click on the button 修改名称, modify the device name.

Chapter 4 Creating/Modifying the Graphical Toolbar

4.1 Creating a Toolbar

Graphics to create the toolbar is used to create the commonly used graphics, such as straight line, curve, circle, square, etc., if you choose the corresponding toolbar icon, the icon will be in the press state, as shown in the figure below:



> Options:: The corresponding icon on the toolbar, Click on the icon, the mouse in a state of choice.

- > Delete:The corresponding icon on the toolbar \square , Clearview.
- > Editor:The corresponding icon on the toolbar . Some editors.
- > The line: The corresponding icon on the toolbar , Draw more than any straight line line, click the left mouse button in a graphical editor area, by moving the mouse to refer to, location, and then click the left mouse button to complete a line edit any Angle, if you want to complete the end of the current editor, click the mouse right click.
- Round: The corresponding icon on the toolbar, Click on the icon, press the left mouse button and drag draw circle.
- A circular arc:The corresponding icon on the toolbar, Click on the icon, press the mouse left key to determine the center of the circle, drag the mouse to click ok arc at any positionDiameter, and then drag the mouse click to determine the arc. First draw arc radius.
- > ellipse:The corresponding icon on the toolbar , Click on the icon, press the mouse left key to determine the center of the circle, drag the mouse to click ok ellipse at any position X to the diameter, and then drag the mouse to click ok elliptic Y direction.
- > Rectangular: The corresponding icon on the toolbar -, Click the icon and drag the mouse to click at any position on the screen to draw a rectangle of any size.
- \succ Text:The corresponding icon on the toolbar f A, This feature is

mainly on the geometry to add text and the text editor. Click on this button will appear as shown in figure dialog:

Western Font	Iso.shx V	Spacing	1	mm
Chinese Font	gbcbig.shx ~	Height	10	mm
Windows Font		width Ratio	1	
Western Font	@Malgun Goth $ \smallsetminus $			_
Chinese Font	@Malgun Goth $ \smallsetminus $	Windo	ws Font	
Please Enter Text				

Interrupted: The corresponding icon on the toolbar , Function keys to select it with the left mouse button click on the graphic to interrupt, interrupt mode is not closed their closed graph into graphics and then want to delete the line to delete broken and interrupt method is the line with the mouse click to change the function keys, and then under the first point with the mouse click to interrupt line, and then use the mouse to lay the adjacent line with him so that you can achieve interrupt.



It had been before the interrupt





After ▶ Rotation:The corresponding icon on the toolbar selected, can manually adjust the rotation Angle. ■ 肉屋(图层: 图层: 图层 图层5 ■ 图层6 ■ 图层7 ■ 图层8 > Layer selection: The corresponding icon on the toolbar , The default color, select the current use. , Used for measuring ▶ Rod: The corresponding icon on the toolbar dimension of graphics. ▶ Net:The corresponding icon on the toolbar , Its function is consistent with the view function (refer to 2.5 view menu bar).

4.2 Modifying the Toolbar

i 🖬 x:173.565 γ: 465.955 ↔ 160.127 ፤ 157.352 🚊 90 🕞 🖓 🌗 💮 💭 💭 🖓 📳 😳 ∼ 🔲 🏭 🖽 🖬 🖬 💆 👘 🔽 🚺

Set position: The corresponding icon on the toolbar , Click on the icon, the pop-up selection object reference point location dialog. As shown in figure 1



Select one or more objects, by selection around the object produces a consists of eight points and an x can edit box, put the mouse on the x by pressing the left mouse button, drag the mouse to drag the selected object, put the mouse to eight side with neither side in a point point, drag the mouse, press the left mouse button can be chosen from the larger/smaller objects.

Eight of the selected point and a corresponding above X nine circles, choose different location of the circle in the the following coordinate values will change image above. accordingly. X: 410.382 Y: 214.441

163.375 90

According to geometric properties of the object being selected, can directly input data in the edit box to modify geometric properties of objects.

- ▶ Ratio lock/unlock:The corresponding icon on the toolbar , Proportion of lock changes direction geometry size of the changes in proportion to the other direction. After proportion to unlock, modify the geometry size each other.
- > Rotation:The corresponding icon on the toolbar , : input rotation Angle in the edit box, click the icon, the object with rotation Angle rotation Angle90, 180, 270
- X mirror \geq

The corresponding icon on the toolbar After the selected graphic, click the icon, the original graphics to the center of the vertical line graphic to shaft turn 180 degrees to the right, as shown in the figure below.



≻ Y mirror

The corresponding icon on the toolbar, After the selected graphic, click the icon, the original center of graphics in the graphics for horizontal axis downward turn 180 degrees, as shown in the figure below.



Filter:The corresponding icon on the toolbar, For the import of graphics has to delete redundant overlapping segments

Filter Lines		×
line Dis:	0.01 mm	
ОК	Cancel	

➤ Closed:The corresponding icon on the toolbar[→], For closed without closing graphics

Closed Lines				×
	Closed Dis:	0.1	mm	
	Forced	dose		
C	ок	Cancel		

Smoothing graphics: The corresponding icon on the toolbar, There will be below the pop-up dialog box, in the dialog box to drag the slider or the coefficient of

numeric box enter the appropriate smoothCoeffic	ient of po	Apply int application , after
to smooth import matte graphics was determined	ОК	,If chose a recovery for the circle
is not round graphics into round here is, of course	, you need	d to get into a circle, graphics for
modification, don't need to get into a round of gra	aphics you	don't need to be checked or will
it be a circle, the biggest smooth coefficient is 1.		



Before the fair



After the fair

Outside the building expansion: The corresponding icon on the toolbar

The selected need to enlarge or shrink the vector graphics, click on the icon appears below dialog:

size			×
	Scale 🔿	100	%
	Extension 🧿	2	mm
	Auto shrink and expand	đ	
	Keep Old Lines		
	ок	Cancel	

Array:The corresponding icon on the toolbar , Click on the icon pop up the following dialog:

阵列	×
行数 <u>1</u> 列数 <u>1</u>	计算
	让 ●右下
镜像 X:□H ¥:□H	□ v □ v
奇数行间距 〇 0	mm
偶数行间距 🔿 🛛	
奇数列间距 💿 🕛	mm (上谷)
偶数列间距 🔘 🧕	mm ···································
行错位 〇 0	™ 计算
列错位○ 0	nm 计算
计算	
移动距离 1	mm
+	-
自动布满帽面 确定	と 取消

The number of columns: the number of columns on the array.

Number of lines: array rows.Column spacing: array column spacing.

Line spacing: array line spacing.

Array direction choice: in the original array upper left/right/left/right side.

Mirror, mirror: H is horizontal v is vertical mirror.

降年列	×
行数 <u>5</u> 列数 <u>5</u>	计算
○左上 ○左下 ●右上	〇右下
	 ✓ V ✓ V ✓ V
奇数行间距 ● 20	mm 计算
偶数行间距 ○ 20 お数列间距 ○ 20 20	mm
偶数列间距 〇	mm 计算
	mm 计算
移动距离 1	mm
+ -)
自动布满幅面 确定	取消

Odd column spacing: set longitudinal odd column spacing distance (such as 13579 odd) even column spacing: longitudinal even set column spacing distance such as 246810 for an even number odd line spacing: setting transverse odd line spacing distance (such as 13579 odd) as the even line spacing: setting transverse the even line spacing distance (such as 13579 is an even number)

	降列	×
	行数 <u>5</u> 列数 <u>5</u>	
	- ○左上 ○左下 ●右上 ○右下	
	積像 X:□H □V ¥:□H □V	
	奇数行间距 ○ 20 mm	
	偶数行间距 〇 20	
	奇数列间距 〇 20 mm	
	偶数列间距 〇 0 mm	
A A A A A	行错位 ○ ㎜ 计算	
	计算	
	移动距离 1 mm	
	自动布满帽面 确定 取消	

Dislocation: set it is between a column and column graph for dislocation arrangement.

Line dislocation: set it is carried out on the line and the line between the graphics dislocation arrangement.

Automatic is full: full automatic wide the whole machine.

Sure: determine the array.

Cancellation: cancel the array.

Tip: the array processing (virtual array) and array array (solid), the difference between a virtual array is only the mother is entity, other array of graphics just showed that had no substance, or modified matrix with maternal movement and change, the main advantage is that small amount of data. Real array is the array of objects are all entities, each entity can be edited separately.

> Layout:The corresponding icon on the toolbar , Is each

other moving equipment layout tool operation.

Determined to generate typography. According to the instructions, in

the full picture and can be specified for typesetting. After the layout directly by processing the data, don't go to translation, rotation, zooming, otherwise it will damage data individually, lead to Processing is not normal.



Full picture



Specify the number of digits in typography



Image format

Here you can also manually accurate change the line spacing:

Moving Dis	1	mm
+	•	

In the input you want to move the distance and then use the mouse to move up or down here is the line spacing can be modified, and then use the mouse to point column spacing in the mouse point shift to the left or the right end point "ok".

Row DISL () Column DISL ()	0 0	mm mm
	CALC	
Moving Dis +	1	mm

Groups: The corresponding icon on the toolbar , Multiple graphics that make up a larger body.



Scattered groups: The corresponding icon on the toolbar¹¹, put a big whole into multiple small overall.



Lead Settings: The corresponding icon on the toolbar¹⁰⁰, Click on the rebound out of the dialog box as follows according to need to be set.

设置 引入 长度 5 角度 45 类型 无 → 引出 长度 5 角度 45 美型 五 → 引出	添加引线
□ 角度自动设定	检查干涉
開切阳切设定 自动 → 元 → 5 ● 所有対象 ○ 法中対象	退出

- Manual lead: The corresponding icon on the toolbar, Manually add lead.
- Material width: The corresponding icon on the toolbar, Click on the rebound out of the dialog box as follows according to need to be set.

材料宽度:			×
	材料宽度:	1600	mm
	确定	取消	

Chapter 5 Layers/Alignment Toolbar

5.1 Layer Toolbar

Layer, the function of the toolbar is used to set the processing object layer, use different color to indicate different layers.



Select graphics object, and then click on the layer color toolbar ICONS, the graphics object is stratified. The software supports 16 layer color Settings. Each layer object can be set separately different processing technology, detailed details later.

5.2 Align the Toolbar

Alignment aligned toolbar is used for single or multiple graphics object. Align the toolbar below:

┋╇╄┙┛╓┉╋┲┣

- Align center: The corresponding icon on the toolbar, The selected object as a whole wide center alignment.
- Upper left alignment: The corresponding icon on the toolbar
 The selected object as a whole, wide left alignment.
- > Lower left alignment:The corresponding icon on the toolbar 🛀

- , The selected object as a whole, wide bottom left alignment.
- Upper right alignment: The corresponding icon on the toolbar
 , The selected object as a whole, wide right alignment.
- ➤ The lower right alignment:The corresponding icon on the

toolbar, Selected object as a whole to wide right alignment.

- > Left alignment: The corresponding icon on the toolbar e, , in the most on the left side of the object as a benchmark to align on the left.
- Right alignment: The corresponding icon on the toolbar, In the most the right side of the object as a benchmark aligned on the right.
- > On the alignment:The corresponding icon on the toolbar, based on the upper object depend on alignment.
- > The alignment:The corresponding icon on the toolbar , Based on the side of the object under lower alignment.
- > Horizontal center alignment:The corresponding icon on the

toolbar s, Based on all the selected object horizontal centerline center alignment.

> The vertical center alignment:The corresponding icon on the

toolbarth, With all of the selected object vertical centerline as a benchmark center alignment.

> Center alignment:The corresponding icon on the toolbar¹⁰⁰, The

center of all the selected objects as a benchmark center alignment.

After the version directly by processing the data, don't go to translation, rotation, zooming, otherwise it will damage separately, data, guide to processing is not normal.

Chapter 6 Work Panel

Panel, including the layer management, path optimization, equipment control and manual control, etc.

Wor	k									
	Devi	ce Name:	一号机	192.	168.10.1	68	~ C	onnect	Refre	sh
La	yer	Path								
La	ayer		Mode		Speed		Power		Outpu	ıt
			Cutting		200.00		50.0			
			Cutting		200.00		50.0		~	
-										
ŀ										
De	evice	Copntro	1							
		Load			Bo	rder		Return	to zero	J
		A platfor	m		1	Z †		Las	ier	
			+		0	-		St	art	
		¥1			+	z↓				h

6.1 Device attachment

Device Name:	—号机192.168.10.168	\sim	Connect	Refresh

Device name: name and address of the connected device.

Status:

Connection: the connection to the device.

Refresh: refresh the address.

6.2 Layer Management

ayer	Mode	Speed	Power	Output
	Cutting	200.00	50.0	~

Including color layer, processing layer management mode, the information such as speed, power, whether the output and the layer move up, down, top, bottom, selected operations such as command buttons.

Click on a color layer, the layer information is highlighted, click click the right mouse button, the following figure. Shown below:

Layer	Path]		
Layer		Mode	Speed	Po
		Cutting Cutting	200.00 上移 下移 顶端 底端	50
			选中	

Click on the 上移 The layer up a layer,Click on the 下移 The layer down a layer,Click on the 顶端 The layer up to the top,Click on the ^{床端} The layer down to the bottom,Click on the ^{选中} The color layer object is selected.

Tip: file processing order based on the layer order, change the layer order is processing the order. Output: check the output, the laser processing file output when the

layer object. Don't check the output, the layer object don't output, machining process of the layer object does not.

Double-click on a color layer, open the layer information box, the diagram below:

No Layer 0 Uayer color 1 Working mode 0 Pause 0 Pause 0 Pause 0 Cutting parameters Speed 200 Max Power 30 % % Max Power 50 % % Uight delay 0 Max Power 50 % % <th>×</th> <th></th> <th>,</th> <th>· · · · · ·</th> <th>arameter setting</th> <th>iyer pa</th>	×		,	· · · · · ·	arameter setting	iyer pa
0 Working mode Cutting 1 Pause Cutting parameters Speed 200 Speed 200 mm/s Laser1 Laser2 Laser3 Max Power 30 % Max Power 50 % Light delay 0 ms Light off delay 0 ms Speed 0 mm/s Light off delay 0 ms Speed 0 mm/s Laser1 Laser2 Laser3 Laser1 Laser3 Laser4 1 1 1 Mode Bidirectional Mode Direction From bottom 1				Laver color	Layer	No
1			Cutting	Warking made		0
Cutting parameters Speed 200 mm/s / Laser1 / Laser2 / Laser3 / Laser4 Min Power 30 % Max Power 50 % Light delay 0 ms Light off delay 0 ms Cutting parameters Speed 0 mm/s / Laser1 / Laser2 / Laser3 / Laser4 Nin Power 30 % Light off delay 0 ms Speed 0 mm/s / Laser1 / Laser2 / Laser3 / Laser4 Nin Power 30 % Step 0 mm Mode Bidirectional ~ Direction From bottom 1 ~		·	Cuturig	working mode		1
Cutting parameters Speed 200 mm/s Laser1 Laser2 / Laser3 / Laser4 Min Power 30 % Max Power 50 % Light delay 0 ms Light off delay 0 ms Light off delay 0 ms Small round punching Engraving parameters Speed 0 mm/s Laser1 Laser2 / Laser3 / Laser4 離紋功率: 0 % Step 0 mm Mode Bidirectional ~ Direction From bottom 1 ~			Pause			
Image: Speed 200 minitys Laser1 Laser2 Laser3 Laser4 Min Power 30 % Max Power 50 % Light delay 0 ms Light off delay 0 ms Small round punching Engraving parameters Speed 0 mm/s Laser1 Laser2 Laser3 Laser4 Billight off delay 0 ms Engraving parameters Speed 0 mm/s Laser1 Laser2 Laser3 Laser4 Billight parameters Speed 0 mm Mode Bidirectional Direction From bottom 1		(-	200	Cutting parameters		
/ Laser1 Laser3 / Laser4 Min Power 30 % Max Power 50 % Light delay 0 ms Light off delay 0 ms Small round punching Engraving parameters Speed 0 Speed 0 mm/s / Laser1 Laser3 Laser4 雕刻功率: 0 % Direction From bottom 1		mm/s		- Speed		
Min Power 30 % Max Power 50 % Light delay 0 ms Light off delay 0 ms Small round punching Engraving parameters Light delay 0 ms Light off delay 0 ms Light off delay 0 ms Light off delay 0 ms Engraving parameters Light off delay 0 mm/s Engraving parameters Speed 0 mm/s Laser1 Laser2 Laser4 1 1 Mode Bidirectional Direction From bottom 1		aser4	r2 Y Laser3 Y L	/ Laser1 Lase		
Max Power 50 % Light delay 0 ms Light off delay 0 ms Small round punching Engraving parameters Speed 0 mm/s Laser1 Laser2 Laser4 1 1 Max Power 50 %		%	30	Min Power		
Light delay 0 ms Light off delay 0 ms Small round punching Engraving parameters Speed 0 mm/s Laser1 Laser2 / Laser3 / Laser4 雕刻功率: 0 % Step 0 mm Mode Bidirectional ~ Direction From bottom 1 ~		%	50	Max Power		
Light off delay 0 ms Small round punching Engraving parameters Speed 0 mm/s / Laser1 \ Laser2 \ Laser3 \ Laser4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ms	0	Light delay		
Light of delay 0 mis Small round punching Engraving parameters Speed 0 mm/s Laser1 Laser2 / Laser3 / Laser4 雕刻功率: 0 % Step 0 mm Mode Bidirectional ~ Direction From bottom 1 ~ 		me	0	Light off dolay		
Small round punching Image: Speed of the system Image: Speed of the system <td< td=""><td></td><td>1115</td><td><u> </u></td><td></td><td></td><td></td></td<>		1115	<u> </u>			
····································		Ig	Small round punchir	U		
Engraving parameters Speed 0 mm/s /Laser1 \Laser2 /Laser3 /Laser4 \ 瞪刻功率: 0 % Step 0 mm Mode Bidirectional ~ Direction From bottom 1 ~						
Speed 0 mm/s Laser1 Laser2 / Laser3 / Laser4 離刻功率: 0 % Step 0 mm Mode Bidirectional ~ Direction From bottom 1 ~ 				Engraving parameters		
Laser1 Laser2 Laser3 Laser4 雕刻功率: 0 % Step 0 mm Mode Bidirectional Direction From bottom 1		mm/s	0	Speed		
Image: Construction of the second of the		aser4	r2 V Laser3 V L	/Laser1 V Lase		
間違利功率: り ・・・・・・・・・・・・・・・・・・・・			2 / Lascio / L			
Step 0 mm Mode Bidirectional > Direction From bottom t		%	0	11111111111111111111111111111111111111		
Mode Bidirectional Direction From bottom 1		mm	0	Step		
Direction From bottom t V			Bidirectional ~	Mode		
			From bottom t $ \smallsetminus $	Direction		
OK Cancel		Cancel	ок			_

Layer information box on the left side of the show all layers and sequence, the right display the current layer information.

- Current layer color: displays the current selected color, the mouse click on the left side of the different layer, the layer change accordingly.
- > Work mode: click the drop-down button on the right side, there are five working mode, as shown in the figure below:



> Pause: check the pause, processing to the layer object machine stop, press the start key processing again.

Cutting parameter Settings:

- > Speed: processing speed, not set is greater than the maximum speed of.
- ▶ Laser setup: there are laser1, laser2, laser3, laser 4.
- > Minimum power: minimum operating power when processing.
- > Maximum power: maximum operating power when processing.
- > The light delay: a light ahead of time when processing, the material is difficult to cut through.
- > The light off Delay: after the completion of processing.
- > Small round punch: have the sealing length, delayed perforation

graphic size, perforation, click in the diagram below:

刀割参数		×
封口长度:	0	mm
打孔图形大小:	1	mm
打孔延时:	200	ms
ОК	Cancel	

Engraving parameter Settings:

- > Speed: processing speed, not set is greater than the maximum speed of.
- ▶ Laser setup: there are laser1, laser2, laser3, laser 4.
- > Carving power: when processing a bitmap, percentage of laser power laser tube a carving speed.
- > Carving interval(step): refers to the processing graph of the distance between line and line.
- > Carving mode: a one-way scan, two-way scanning, as shown in figure:



> Carving direction: from top to bottom, from bottom to top, from

left to right, from right to left, as shown:



- ➢ Sure: save the parameter Settings.
- ➤ Cancel: save the original parameter set.

6.3 Path Optimization

Layer	Path		
Pro	cess by layer		
Sta	rt Point		
Dire	ection		
🔽 Ins	ide First		
🔽 Mar	nual Blod		
	Block Height:	50	mm
	Object Start Point:	Upper Lefi $ \smallsetminus $	
	Workking Direction:	Up First 🛛 🗸	
	Start		Stop

- Processing by layer:
- > The Starting point:
- ➢ Direction:
- ➢ Inside first:
- ➢ Manual block:
 - Block height: set when the set size and the width of the machining graphics, at the same time also need to be closed.
 - Object Star point:starting point, relative to the graphics laser starting point, as shown in figure:

 Upper Left Origin Upper Left Bottom Left Upper Right Bottom Right Center Up First Down First Up First Left First Right First Right First 	
Simulation: Start Stop	

6.4 Device Control

Equipment control including file processing (load), the processing/pause, stop, borders, back to zero, laser, As shown in the figure below:



File processing (load) :click the Load Button,Card file processing dialog:

文件加载		×
	******* \\&_	_
文件名:	平果 海豹	
加工次数:	1	
重复延时:	0	ms
计数模式:	full page $$	
起点模式:	immediate $ \sim $	
停靠模式:	Start mod: \vee	
送料模式:	Close 🗸	
	下载	
保存为脱机文件	加载脱机	文件

File list on the left side of the dialog box is equipment, display the current controller in the file, on the right side is pending file Settings.

- > Under the file name: to stay under the file name.
- > Processing times: Settings file repeated processing times.
- > Counting mode: the whole and the individual count, as shown:

full page	\sim
full page	
Single	

- Repeat delay: set the repetitive processing the processing to the end of the time interval between the start of the next process.
- Starting point mode: select processing starting point. Click the drop-down button on the right side, open the drop-down list box:



- Pattern: immediately to laser current location as a starting point of processing.
- Fixed point mode: to control the system Settings at the bottom of the X/Y coordinates do processing and the starting point.
- Software pattern: at the current processing object at the start of a PowerCut software graphics editing areaPoint coordinates as a starting point of processing.
- ◆ After custom mode: select the custom mode, followed by the coordinates of the set up buttonbecomes available, Click on the button, the pop-up coordinates Settings dialog box, the diagram below:

Coordinate Setting	×
X: 0	Y: 0
当前位置	Get
ОК	Cancel

Can directly input X/Y coordinate values as a starting point, processing can also click on the ______button to get the coordinate values as a starting point.

Docked mode: choose the docking stations. Click on the right side of the drop-down button to open the drop-down list box:



- Starting point mode: after completion of processing, laser head back to the starting point for docking stations.
- Origin pattern: after completion of processing, laser head back to the origin as a docking stations.
- Custom mode: select the custom mode, then the coordinates of the Settingsbutton becomes

available, click on the button, the pop-up coordinates Settings dialog box, see below:

Coordinate Setting		×
X: 0	Y: 0	
当前位置	Get	
ОК	Cancel	

Can directly input X/Y coordinate values as docking sites, also can click the <u>Get</u> button to obtain the coordinate values as docking stations.

- ➢ Feeding mode:
 - ◆ Close: no feeding mode.
 - ◆ Feeding: select feeding mode, then feed Settings button becomes effective, click on the button, pop-up feed Settings dialog box, see below:

Feed Setting		>
Transverse		
Order	Before processi V	
Mode	Auto feeding \sim	
Length	0 mm	
ОК	Cancel	

Feeding direction: check the option Transverse, transverse feeding, do not check this option, the longitudinal feed.

Selection of feeding order: there are two kinds of order, after machining before the feed or feed, the first processing to feed or feed processing again.

Feeding modes: there are two modes to choose from, feeding intelligent automatic mode or feeding mode.automatic feeding mode , In the input feed length Length 0 the system, intelligent computing each feed, Only in the input feeding interval value

Interval 0 mm

click OK button, Confirm the parameter is set, click
Cancel button, Cancel the parameter Settings.

Tip: feeding mode only in the direction of a feed.

 Push board: select push plate model, followed by feed Settings button becomes effective, click on the ...
 button, pop-up feed Settings dialog box, see below.

Feed Setting		×
Transverse		
Order	Before processi 🗸	
Mode	Auto feeding \sim	
Length	0 mm	
ОК	Cancel	

Feeding direction: check the option Transverse, transverse feeding, do not check this option, the longitudinal feed.

Selection of feeding order: there are two kinds of order, after machining before the feed or feed, the first processing to feed or feed processing again.

Feeding modes: there modes to choose are two from. feeding intelligent automatic mode or feeding , In the input feed length mode.automatic feeding mode Length 0 ".intelligent feeding mode, The length of the system, intelligent computing each feed, Only in the input feeding interval value

Interval ⁰ mm

click OK button, Confirm the parameter is set, click

Cancel button, Cancel the parameter Settings.

◆ . Material: select synchronous feeding mode, the following material Settings button becomes effective, click on the button, the pop-up material Settings dialog box, see below:

Feed Setting						×
Or	der	After	processin	×		
Mo	ode	Auto	feeding	\sim		
Len	gth	0			mm	
0	ĸ		Cancel			

Selection of feeding order: there is an order, processing after feeding, the processing and feed first.

Feeding modes: there are two modes to choose from, automatic feeding mode or intelligent feeding mode.automatic feeding mode , In the input feed length Length 0 ".intelligent feeding mode, The length of the system, intelligent computing each feed, Only interval in the input feeding value Interval 0 mm

click OK button, Confirm the parameter is set, click
Cancel button, Cancel the parameter Settings.

- Processing/pause:click on the ______button , control equipment to start processing or pause.
- Stop:click on the Stop button, stop processing.
- > Walk borders:click on the Border button, equipment for processing documents cut rectangular boundaries.
- Back to zero:click on the Return to zero button, device back to the origin of the operation, the X/Y axis to move the origin.
- Laser some:click on the Laser button, Laser equipment to perform some action.

6.5 Manual Control



- > , . . . Click this button to control the X axis, moving, reverse.
- > 🛛 x1. X2, X3, X4 Switch button.
- reverse.
- > $z \uparrow$, $z \downarrow$: Click this button to control the Z axis moving, reverse.
- ▶ 精确移动: ●Press the direction key, again in this input numerical laser accurate moving in this direction.

Chapter 7 Operation process

7.1 Step 1: Install the machine and its accessories

please according to the hardware hardware installation instructions in the installation manual, installation related machinery and equipment and accessories.

7.2 Step 2: Install the software

Who will be copied software from the CD to the computer, detailed installation method, please refer to the first chapter.

7.3 Step 3: Draw and process graphics

You can use this software graphing tools, such as CorelDraw. Photoshop AutoCAD draw your own graphics, and save them for the extension of PLT, DST, AI, DXF, PLT file. BMP file needs to be converted to the net and the format of the point (suggest using Photoshop).

7.4 Step 4: Set processing parameters

Click the icon Din the software to design load you good graphics to working level. At this point you can to add, working parameters Settings, see the previous chapters set method in detail. , you can download the processing data to a machine or USB drive. 7.5 Step 5: Judge the focal length

Focal length is in the hardware installation to adjust good, here to judge, if not suitable to do.

7.6 Step 6: Start processing

When the above steps are completed, you can click the start button.