



常见故障及解决办法 Common failures and Solutions

序号 Serial number	现象 phenomenon	可能问题 May question	检修路径 Overhaul path	解决措施 Solution measures
1	切不断 Cut continuously	聚焦镜片是否不干净, 镜片表面是否花 Focus lenses are not clean, the lens surface is spent		用酒精清洗, 更换聚焦镜 Use alcohol to clean and replace the focus lens.
		光路不对 Light path is not right	用胶纸贴在镜片上点射是否均在一点 With the tape on the lenses are in a burst	调整 adjustment
		网板不平 Table uneven		调整 adjustment
		镜片有灰尘 Lens with dust	观察三块反射镜片是否不干净 Observe whether the three pieces of reflective lenses are not clean	用擦镜纸擦拭 Wipe with a mirror paper
		聚焦镜片固定螺丝松动 Fixing screw loosening of focusing lens		固定螺丝调整光路 Fixed screw adjustment light path
		材料面与激光头焦距不对 Material surface and laser focal length	切割材料表面到激光头上的圆台高度为 49MM(激光光斑最细为准) Cutting cone material surface to the laser head height of 49MM(the laser spot is the smallest.)	调整焦距 Adjust focus distance
		激光电流波动不稳定 Unstable laser current	检查电压是否有 220V, 是否有波动 Check whether the voltage is 220V, whether there is fluctuation	加装稳压器 Add voltage regulator
		激光管老化、光弱 Laser tube aging, light weak	按测试开关, 把功率从最大调至最小看是否有光输出 According to the test switch, the power light output from the maximum to the minimum at	无光更换 No light replacement
2	无激光输出 No laser output	镜片损坏 Lens damage	检查反射和聚焦镜 Examination of reflection and focusing mirrors	更换 replace
		镜片松动 Lens loosening		调紧 Tightening
		水箱信号线没接好 The signal line of the water tank is not connected.	观察激光电源红灯是否亮 Observe whether the red light of the laser power is bright	红灯不亮代表水箱信号故障。 Red light does not light on behalf of the water tank signal fault.
		激光电源损坏 Laser power supply damage	按测试开关, 扭动功率调节旋钮, 看毫安表有无指示, 是否有摆动 According to the test switch, twisting power	更换激光电源 Replace laser power supply



			adjustment knob, see Ma table have no indication, whether there is swing	
		激光管老化或破裂 Laser tube aging or rupture	A•按测试开关, 看激光管有无光输出 According to the test switch, look at the laser tube with no light output B•激光管有无破裂 Laser tube rupture	无光或破裂更换 No light or broken, replaced
3	切割有火苗或冒烟 Cutting flame or smoke	吹气管没有风或风弱 Blow the air pipe without wind or wind	A•吹气管是否堵塞或气阀关闭 Blowing air pipe is blocked or valve closed B•气泵是否损坏 The pump is damaged	A•疏通气管或打开气阀 Dredge the trachea or open the air valve B•检修或更换气泵 Repair or replace the pump
4	切料发黄、烧焦 Cutting and yellow, burning	吹气是否过小 Air is too small	检查排气是否顺畅 Check whether the exhaust is unobstructed.	吹气过小要更换空压机 吹气 Blowing too small to replace the air compressor air blowing
		材料与激光头焦距不对 Material and laser head focusing distance	检查激光头高度 Check the height of the laser head	调整焦距 Adjust focus distance
		聚焦镜片不干净或者聚焦效果不好 Focus lens is not clean or focusing effect is not good		更换聚焦镜片 Replace focus lens
		功率过大 Too much power		调小功率 Power transfer
5	激光头不运动 Laser head does not move	驱动器故障 Driver fault	检查驱动器是否亮红灯	更换驱动器
		电机供电电源故障 Motor power supply fault	检查 36V 或者 48V 电源供电是否正常 Check whether the 36V or 48V power supply is normal	更换开关电源 Replace switching power supply
		控制板卡接触不良或损坏 Bad or damaged control board	检查“设备管理器”驱动列表上是否有运动控制卡驱动 Check whether there is a motion control card driver on the device manager drive list	用酒精清洗控制卡金手指, 重新插拔控制卡 Clean with alcohol control cheat, re plug control card
6	找不到控制卡 Could not find the control card	控制卡有灰尘 Control card with dust	用气枪吹 PCI 插槽内部灰尘 PCI internal dust by air blowing slot	清理控制卡 Cleaning control card
		控制卡与 PCI 插槽接触不良 Control card and PCI socket contact	金手指是否有灰尘右边没插好 Gold fingers have the dust on the right side is not plugged in	重新插好 Re insert
		电脑系统控制卡驱动丢失 Loss of computer system control card driver		右击更新驱动, 选择“自动更新驱动” Right click Update Driver, select "auto update driver"

7	打不开光博士软件 Can not open the GBOS software	光博士软件丢失 Loss of GBOS software	Reinstall the software, adjust the parameters (CCD models reinstall the software must be copied out before, to avoid the need to reinstall the software to adjust the parameters of the machine parameters are as follows: mical, syscfg)	重装软件, 调整参数 (CCD 机型重装软件之前必须把参数复制出来, 避免重装软件后要调节机器参数参数文件如下: syscfg, mical)
8	软件连接不上机器 Software is not connected to the machine	电脑 USB 驱动丢失 Computer USB driver lost		重新安装机器 USB 驱动 Re install machine USB driver
		传送端口不对 Incorrect transport port		更换文件传送端口 Replace file transfer port
9	切割有暂停现象 Cutting with pause exception	运动控制卡损坏 Motion control card damage	电脑配置与控制卡有点不匹配 Computer configuration and control card a bit does not match	更换控制卡 Change control card
		高压端打火 High voltage ignition		重接高压端 High voltage terminal
		地线是否接好 Whether the ground wire is connected	用万用表测试 Test with a universal meter	重接地线 Reconnect ground
10	传送文件慢 Slow transfer file	电脑配置低 Computer configuration is low		更换电脑 Replace computer
		图形未群组 Graphics not group		先群组再传输 First group retransmission
		系统坏 System bad	检查电脑 Check computer	重装系统, 重装软件 Reinstall the system, reinstall the software
		如果文件线条数据量比较多, 文件传送需要一定时间 If the file lines are more data, the file transfer takes a certain amount of time.		耐心等待文件传送 Patient waiting for file transfer
11	开机不回原点 Boot does not return to the origin	暂停还有信号输出 Pause and signal output	暂停开关是否按下 Pause switch is pressed	关掉暂停信号 Turn off the pause signal
		驱动器亮红灯 Drive a red light	电压过高或过低 Voltage too high or too low	断电后将驱动器线拔出后插 After the power is cut off, the driver line is pulled out and inserted.
		驱动器不亮绿灯 Drive does not light	开关电源不供电 Switch mode power supply	再上电 Power up again 更换开关电源 Replace switching power supply

		线材断裂 Wire breakage	检查线路 Check line	重新连接 Reconnect
		软件设置开机没回原点 Software settings are not back to the origin of the boot	信号输出线接触不良 Bad signal output line	重新接好 Re connect
12	开机回原点撞 机 Boot back to the origin collision	限位开关损坏或线路接触不良 Limit switch damage or poor line contact	用金属片靠近限位开关是否亮红灯 With a metal film near the limit switch is a red light	若不亮红灯, 则限位故障 If the red light is not bright, then limit the fault
		控制板卡损坏 Control board damage		更换控制板卡 Change control board
13	机器不通电 Machine electricity	机器主电源插头坏 Machine main power plug is bad	检查线路 Check line	更换 replace
		开机按钮故障 Boot button failure	万用表检测 Meter detection	更换 replace
		总电源开关线接触不良 Total power switch line contact	检查线路 Check line	重新接好 Re connect
14	切割图形有锯齿 Cutting graphics with jagged	图形线条不圆滑 Graphic lines are not smooth	查看电脑编辑图形线条是否圆滑 See if the computer graphics line is sleek	优化处理 Optimized processing
		皮带轮松动 Belt pulley		固定 fixed
		镜片松动 Lens loosening		固定 fixed
		驱动器线接触不良 Poor driver line contact	检查线路 Check line	接好 Re connect
		同步皮带松紧不一致 Synchronous belt tension is not consistent		调整 adjustment
15	图形变大变小 Figure size wrong	激光参数是否有所改动 Whether the laser parameters have been changed	检查 50. 100. 150 尺寸是否正常 Check 50. 100. 150 size is normal	调整 X 轴每运动或 Y 轴每运动参数 Adjust the X axis for each movement or Y axis for each movement parameter
		皮带轮松动 Belt pulley	基米螺丝是否松动 Screw is loose	锁紧螺丝或更换螺丝再锁紧 Lock screw or replace screw and then lock
		皮带磨损或弯折 Belt wear or bend	检查皮带是否磨损或变形 Check if the belt is worn or deformed	更换皮带 Replace belt
16	跳闸 Tripping operation	激光电源短路 Short circuit of laser power supply	检查线路 Check line	更换 replace
		水箱漏电 Leakage of water tank	用电笔测量 Measurement with a universal meter	更换 replace

17	水箱报警 Alarm for water tank	水管堵塞 Pipe blockage	是否堵塞或障碍物压着 Whether the blockage or obstruction	清通 clear and coherent
		温度过高 Temperature is too high	检查水温 Check water temperature	更换纯净水工停机片刻 Replacement of pure water stop for a moment
18	X、Y 轴不动 Y, X axis does not move	驱动器亮红灯 Drive a red light	检查线路 Check line	断电将驱动器线拔出后再插上 Power off the drive line pulled out after the plug
		开关电源故障 Switch power failure	检查 36V 输出是否正常 Check whether the output of the 36V is normal	更换开关电源 Replace switching power supply
		马达或驱动器损坏 Motor or drive damage		更换 Replace
19	图形错位 (有缺口) Graphic mismatch (there is a gap)	X 或 Y 轴皮带齿轮螺丝松动 X or Y shaft belt gear screw loose	开启驱动电源, 用手轻轻推动轨道 Turn on the drive power and gently push the track with your hand.	锁紧螺丝 Lock screw
		插件版本不匹配 Plug in version does not match		匹配插件和控制卡版本 Matching card and control card version
		驱动器线接触不良, 马达线芯断 Poor drive line contact, motor line core off	检查线路 Check line	接好 Connect line
20	切割跑位, 有异响 Cutting position offset, there is abnormal sound	皮带轮松动 Synchronous belt pulley	检查皮带轮螺丝 Check belt pulley screw	锁紧螺丝 Lock screw
		驱动器线接触不良 Poor driver line contact	信号受干扰 Signal interference	接牢 排除干扰 Firm connection Eliminate interference
		控制板卡损坏 Control board damage		更换控制板卡 Change control board
		X 或 Y 轴滑块损坏 X or Y axis slider damage	用手轻轻推动 XY 轴是否有卡的现象 Hand gently push the XY axis is the phenomenon of the card	更换 X 或 Y 轴滑块 Replace X or Y axis slider
		驱动器线接触不良 Poor driver line contact	用万能表测量 Universal table measurement	重新接线 Re wiring
21	电脑死机 Computer crashes	系统损坏 System damage		重装系统, 重装软件 Reinstall the system, reinstall the software
		CPU 负载过大 CPU load is too large		检查 CPU 和显卡散热, 除尘, 上油, 或更换风扇。Check the heat, CPU and graphics card dust, oil, or replace



				the fan.
		病毒木马 Virus Trojan		格式化, 重装系统 Format, reinstall the system
22	相机有时打不开 Sometimes the camera does not open	相机坏 Camera bad		更换相机 Changing camera
		相机数据线坏 Camera data line is bad		更换数据线 Replace data line
		电脑 USB 端口坏 Computer USB port bad		换一个电脑 USB 端口 Change a computer USB port
		软件损坏 Software damage		重装软件 Reinstall the software
23	软件导入不了 DST 格式 Software can not import DST format	文件损坏 File corrupt		重新保存文件 Save file
		软件损坏 Software damage		重装软件 Reinstall the software
24	CCD 大小边 CCD edge distance size is not consistent	相机未校正好 Camera not adjusted well		相机打点校正, 相机偏移校正 Camera calibration, camera offset correction
		皮带, 轨道未调整好 Belt, track not adjusted well	查看皮带松紧度, 切一个 200mm*200mm 的正方形, 检查四个边是否长度相等, 可以确定两条 Y 轴的导轨的平行度, 看两条对角线的长度是否一样, 可以确定 Y 轴与 X 轴的导轨的垂直。Check the belt tightness, cut a 200mm * 200mm square, check the four sides is equal length, can determine the parallelism of the two Y axis guide rail, the length of the two diagonals is the same, can determine the Y axis and the X axis guide rail vertical.	重新调整轨道, 皮带 Re adjust track, belt
		皮带, 齿轮, 轴承磨损 Belt, gear, bearing wear	拆下来检查 Remove check	更换皮带, 齿轮, 轴承 Replace belt, gear, bearing
25	一直出光 Always out light	软件设置激光类型与实际激光类型不一样 The software is not the same as the actual laser type.	检查机器激光类型 Check machine laser type	重新设置软件激光类型 Re set the type of software laser
		测试开关短路 Test switch short circuit	用万用表检查开关 Check switch with universal meter	更换测试开关 Replace test switch
		激光电源信号线接错	用万用表检查线路 Check lines with a	重接信号线



		Laser power signal line error	universal meter	Reconnection signal
		激光电源坏 Laser power supply is bad		更换激光电源 Replace laser power supply
26	激光输出不稳定 Unstable laser output	地线没接好 GND not connected	检查地线 Check GND	重接地线 Reconnect GND
		高压线松动, 导致高压端打火 The high-voltage wire is loose, resulting in high voltage ignition end	检查高压线 Check high voltage line	重接高压线 Reconnect the high voltage line
		激光电源损坏 Laser power supply damage	检查功率调节是否正常 Check whether the power adjustment is normal	更换激光电源 Replace laser power supply
		激光管损坏 Laser tube damage	看外观有无破损, 通水时有没有漏水现象; 看出光是否正常 See the appearance without damage, water when there is no light to see whether the normal Water Leakage phenomenon;	更换激光管 Replace laser tube
		激光功率调节变阻器异常 The laser power rheostat abnormal	检查功率调节是否正常 Check whether the power adjustment is normal	更换功率调节变阻器 Replace power adjustment potentiometer