Common materials and recommended engraving and

cutting parameters (for LaserGRBL)

 Table 4.1
 Common material engraving parameter table recommendation

	Material	Quality	Laser Options S-MAX	Engraving Speed
Engraving	Basswood	6-8	280	1000
	Hardwood	6-8	280	1000
	Bamboo	6-8	280	1000
	Acrylic	6-8	280	1000
	Kraft paper	6-8	180	1000
	Mirrors	6-8	280	1000
	Stainless steel /aluminum alloy	6-8	1000	1000

	Material	Cutting	Engraving	Laser Options
		Times	Speed	S-MAX
Cutting	1.8mm Basswood	3	1000	400
	6mm Hardwood	15	1000	400
	1.8mm Bamboo	3	1000	400
	2.8mm Acrylic	12	1000	400
	Kraft paper	1	1000	800

Table 4.2Recommended common material cutting parameters

Common problem	Possible cause	Solution
The engraving machine cannot be connected to the software (here refers to the LaserGRBL	Driver Missing, Cannot connect	In the LaserGRBL software, click "Tools">"install CH340 Driver" to install the driver, and restart the computer after installation to connect
	Multiple LaserGRBL software open repeatedly Incorrect port number	Close LaserGRBL software that is open repeatedly Select the correct port number
software)	Incorrect baud rate selection	Baud rate to be selected: 115200
	the data line is unconnected	Check whether the data line is connected correctly.
	USB port problem of the computer	Try a different USB port
The engraving line is	The belt is not tight	Re-tension the belt

5. Common Problems Possible Causes Treatment

Common problem	Possible cause	Solution
not straight	Belt screws are not locked at both ends	Tighten the set screws on both ends of the belt
	Rollers are not locked, brackets are wobbling	Adjust the eccentric nut under the bracket, lock the eccentric nut so that the bracket does not wobble.
	The laser stand extends too much that causes the laser to shake.	Raise the laser to let it as close to the top as possible to reduce laser wobble