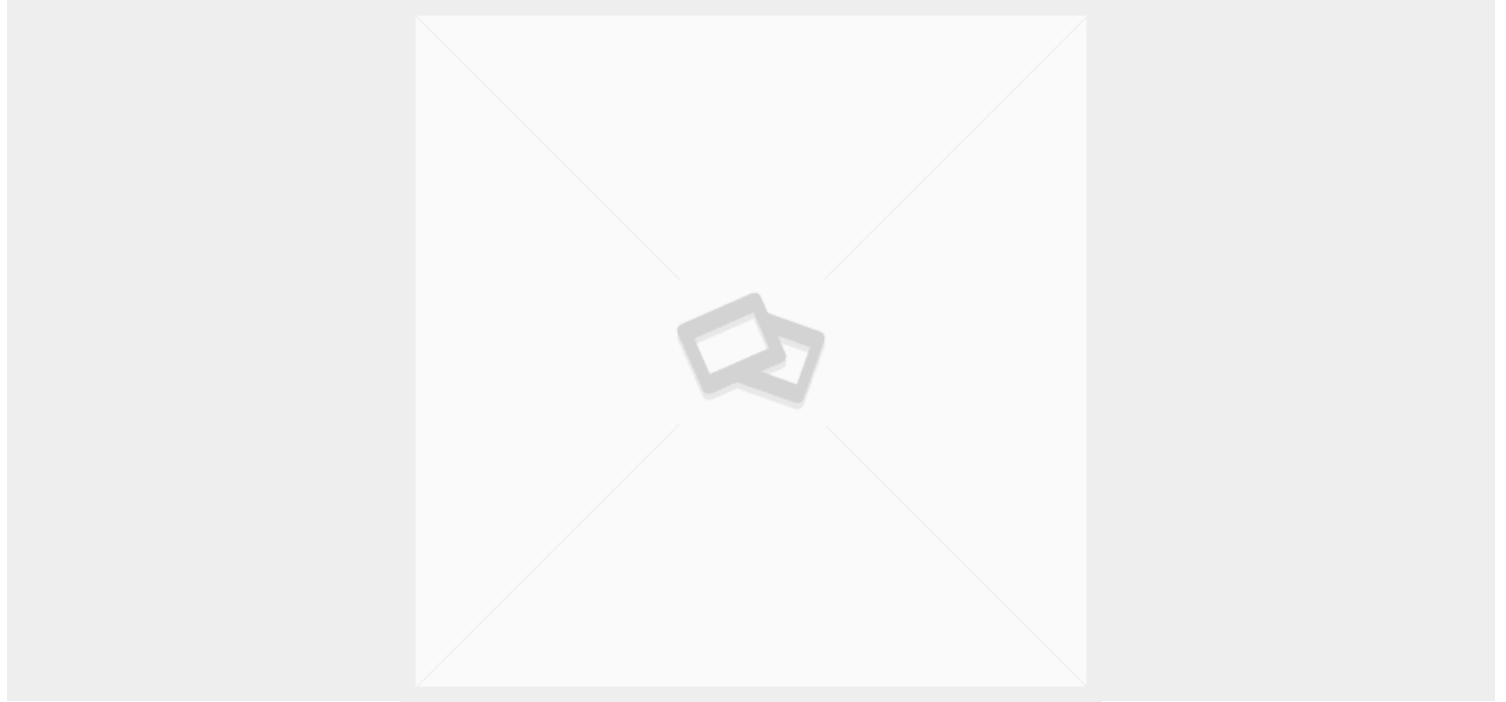


SOME SIMPLE TROUBLESHOOTING SOLUTIONS FOR LASER CUTTING MACHINES

Posted on 2023-06-13 by redsail



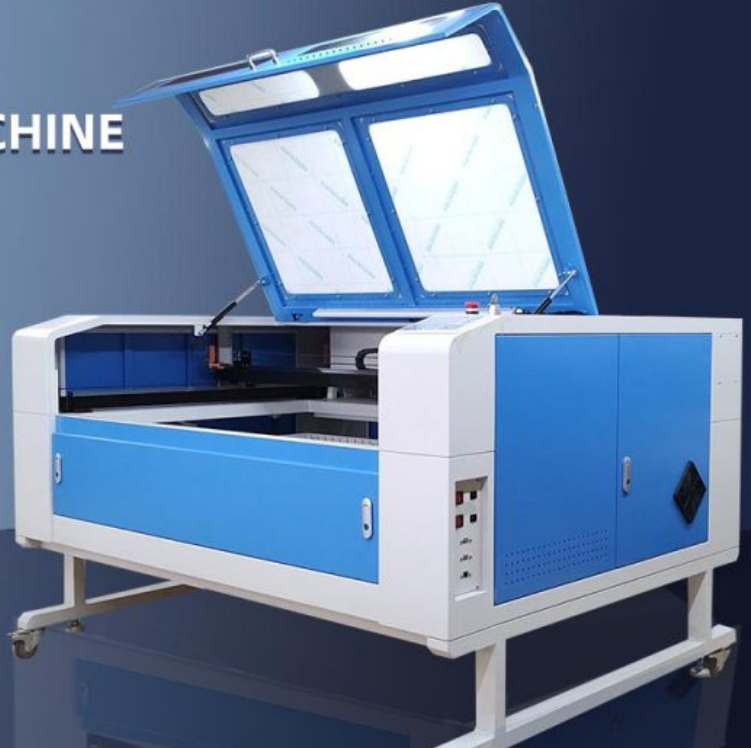
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REDSAIL CM1390E LASER ENGRAVING/CUTTING MACHINE

2-Way Pass-Through
Professional Laser Machine Manufacturer

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laser cutting machine

The [laser cutting machine](#) keeps alarming that the compressed air supply is insufficient.

1. Laser alarm release: The machine tool displays Laser source master alarm, indicating laser alarm. Click Listofalarm (alarm list) on the laser operation panel to view the alarm letters

(1) Compressedair (air alarm)

(2) Nomixgas (mixed gas alarm)

(3) LackofN2 (high-purity nitrogen alarm) After replacing the cylinder, press the reset button to cancel the alarm message, and then press Restart to start pumping. If the laser has not been turned on for more than three days, the cavity needs to be cleaned once.

The method is as follows: After reaching the pumping pressure, press the serv key, and then press

the VENTIL key to return the air.

2. The machine alarm is released:

(1) Compressed air missing (insufficient air);

(2) Nitrogen deficiency (nitrogen deficiency);

(3) Hypoxia (not enough oxygen). After ventilation, press the reset button of the machine tool, and it can work normally.

Laser cutting machine alarm failure: Overtravel alarm means that the laser cutting machine has reached a very extreme position during the working process. If there is an alarm, please check as follows:

1. Whether the laser cutting machine and the computer are properly grounded.
2. Whether the coordinate value at this time exceeds the numerical range limited by the laser cutting machine software.
3. Check whether the size of the drawing you designed exceeds the processing range.
4. Check whether the connecting wire between the motor shaft and the lead screw is loose. If loose, tighten the screws.

When the running distance of the laser cutting machine exceeds the set distance, all motion axes of the laser cutting machine are set to jog state by default. If you keep pressing the manual direction key with your hand, when the machine leaves the limit position, you can connect to the motion state at any time. However, when moving the workbench, it must be noted that the moving direction of the workbench must be far away from the limit position.

There are two main reasons for the high temperature alarm of the cooling water circulation device of the laser cutting machine: Reason 1: The cooling capacity of the matching chiller is insufficient. The cooling effect is not obvious in winter, but the ambient temperature rises in summer, and the

temperature of the cooling equipment cannot be effectively controlled. It is recommended to replace the chiller with a larger cooling capacity. The air compressor, valves, and pipes have all been checked, and there is no problem, but the alarm still occurs, then you need to ask a professional maintenance master to check the specific cause of the alarm