

# LASER ENGRAVING CUTTING MACHINE DAILY MAINTENANCE

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## REDSAIL CM1390E LASER ENGRAVING/CUTTING MACHINE

2-Way Pass-Through  
Professional Laser Machine Manufacturer

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## **Filling the linear guide with lubricating oil**

[Laser engraving machine](#) cutting machine is used for a period of time, the smoke and dust generated by engraving and cutting will corrode the guide rail, so the guide rail should be maintained regularly.

Turn off the power of the laser cutting machine, clean the guide rail with a clean soft cloth, and then drip lubricating oil on the guide rail. After oiling, let the slider roll back and forth on the guide rail to ensure that the lubricating oil enters the inside of the slider. After oiling, let the slider roll back and forth on the guide rail. At this time, the guide rail must be installed first. Be careful not to fix it first when installing the guide rail. Install all the fixing nails and keep them level. Then fix the belt and slider, and then install Lens, adjust the light once, and the way to where X is going is completed.

## **Mirror | Focusing mirror wiping**

After the laser engraving machine | cutting machine is used for a period of time, smoke and dust will adhere to the surface of the lens, affecting the engraving, cutting depth, and engraving and cutting accuracy. Generally, in about a week (according to the frequency of use of the laser cutting machine | engraving machine), carefully wipe the three reflecting mirrors and one focusing mirror clean with anhydrous alcohol.

## **Bearing oiling**

The laser cutting machine uses a large number of bearings. In order to ensure good cutting and engraving effects, some bearings need to be refueled regularly (except oily bearings). Use a clean soft cloth to wipe off the floating soil on the bearings, suck the oil into the needle tube, and then use the needle to slowly Fill the bearing, turning the bearing slowly while filling.

## **Timing belt (belt) tightness adjustment**

There are multiple timing belts in the drive system of the laser cutting machine. If the timing belt is too loose, the lettering will be ghosted. If the timing belt is too tight, it will cause the timing belt to

wear. After using it for a period of time, please adjust the tensioning screw of the synchronous belt, adjust the synchronous belt to a proper degree of tightness, no ghosting of the engraved text, and low noise during operation, or consult the technical personnel of the manufacturer.

## **Maintenance of laser tube**

The laser tube in the laser cutting machine is cooled by circulating water. After long-term use, there will be some white scale in the tube. We can add a small amount of vinegar to the circulating water tube to remove the scale in the tube, and then clean the inside of the laser tube with clean water.

Cycle, so that the laser tube will be in the best working condition and the service life will be extended. During the use of laser engraving and cutting machines, for safety protection and efficient production, the most important thing is the daily safety maintenance and maintenance of the equipment. It can not only prolong the service life of the machine, but also maintain and improve the quality of the processing fee of the product, and finally achieve stability and high efficiency.