

8.5 Daily maintenance

1) The cooling system must use pure water or deionized water. It is strictly forbidden to use ordinary tap water or mineral water. Poor water will seriously affect the laser power and greatly shorten the service life of the laser tube. The laser damage caused by the use of inferior water is not covered by the warranty. The recommended replacement cycle for cooling water is 30 days. Users should pay attention to observe the case of the filter, once the filter yellow, you must replace the filter. For the chillers with anion and cation exchange system, the recommended replacement cycle is 240 days. Please pay attention to the value of the conductivity meter (indicator of the middle part of the chiller), the value is greater than 500 (so much) , You must replace the exchange resin.

2) When the temperature of the equipment is less than or equal to 0 °C, the water in the laser should be discharged in time to stop working so that the freezing of the water may cause the components in the laser to be damaged.

3) When the ambient temperature is greater than the maximum allowable value, the equipment is not fully heat, will reduce the stability of the operation of the equipment, laser life shortened. Long time work should pay attention to the equipment to improve the ambient temperature, especially the control part of the cooling. In addition, to regularly clean the radiator dust.

4) the first time after the first boot work to remove the mouth, take a mirror on the focus lens was 45 ° observed focus lens is contaminated, such as pollution should be promptly cleaned.

- 5) Before each equipment work, please note that according to the thickness of the plate to adjust the focus position, the focal position may not be likely to seriously affect the processing effect.
- 6) After each work of the equipment, you should simply clean the work surface, clean, be careful not to dust, and in the case of power, you can slowly push the X-axis guide or Y-axis guide to ensure that the guide No foreign body, running smooth, but strictly prohibited push and pull.
- 7) bed to keep clean, especially the two linear guide, to always wipe. It is necessary to clean the guide rail after the end of processing every day. Before starting work, you must add grease to the linear guide and wipe it with a cloth dampened with grease. (Note: Please refer to the next section "Lubrication of the moving system").
- 8) Do not press the magnetic scale, and regular cleaning protection, it is recommended to clean once a week.
- 9) cabinet dust filter fan once a week, the air inlet once a week to replace.
- 10) every other week, the mechanical peripherals (fans, pumps, etc.) for a clean-up.
- 11) Check the warning mark every other week, if not complete, must be re-affixed, or cannot boot operation.
- 12) Check the shield once every 8 hours, guard the fence and check whether the chain function is valid.