

WHAT IS A LASER CHILLER AND WHAT DOES A LASER CHILLER DO?

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REDSAIL CM1610 AUTO FEEDING LASER CUTTER

Redsail Laser Cutter / Engraving Machine
1610 for Cutting Soft Materials

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As the name suggests, the [laser chiller](#) uses the cooling capacity of the compressor to freeze the pure water in the water tank, and then brings the cooling water into the cavity of the laser machine to cool down the heat-generating module of the laser machine, the laser cavity and the cutting head, especially the cutting head. When working, the temperature is high. If there is no water or no chiller, it is possible to burn the cutting head after working for 3 seconds.

The laser chiller is also equipped with a water filter, which can filter the impurities in the circulating water, prevent the pipeline from being dirty and blocked, and make the laser equipment run smoothly. The laser machine uses Hitachi imported compressors, stable cooling effect, coupled with the custom-made control panel, can make the control accuracy reach ± 0.1 , the control accuracy is small, the smaller the temperature impact on the laser machine, and the work efficiency. The more stable it is, the finer the processed products will be. The laser chiller has the flow protection capability. When the water flow is less than the set value, the compressor will automatically stop working to ensure the use of laser equipment.

The laser chiller is mainly used to cool the laser generator of the laser equipment through water circulation, and to control the operating temperature of the laser generator, so that the laser generator can keep working normally for a long time. During the long-term operation of the laser equipment, the laser generator will continue to generate high temperature. If the temperature is too high, it will affect the normal operation of the laser generator. Therefore, a laser chiller is required for water circulation cooling and temperature control.

According to the classification method of laser generator type chillers, laser chillers are divided into carbon dioxide glass laser tube laser chillers, carbon dioxide metal radio frequency tube laser chillers, semiconductor side pump laser chillers, semiconductor end pump laser chillers, YAG laser chillers machine, fiber laser chiller, UV laser chiller.

It can be said that the use of laser chillers can not only enable the laser machine to work normally, but also ensure the use and service life of the laser machine. The most important thing is to make the working efficiency and accuracy of the laser machine reach the state, and create a great deal for the enterprise. Interests.