

WHAT ARE THE METHODS TO EXTEND THE LIFESPAN OF LASER CUTTING MACHINES?

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After using a laser cutting machine for a certain period of time, there may be various problems, one of which is the extension of its lifespan. Metal laser cutting machines require us to work hard to extend their lifespan, and buying machinery with a long lifespan at the same price is our common pursuit. Everyone wants to make the metal laser cutting machine last longer, but it requires our daily maintenance to use it, Let's take a look at the method of extending the lifespan of metal laser cutting machines together with Pentium Laser.



Laser cutting machine

Method 1 for extending the service life of stainless steel laser cutting machine: Replacement of water and cleaning of water tank: It is recommended to clean the water tank and replace the circulating water once a week. It should be noted that the laser tube must be filled with circulating water before the machine starts working. The water quality and temperature of the circulating water directly affect the service life of the laser tube. It is recommended that users use pure water and control the water temperature below 35 . If the temperature exceeds 35 , it is necessary to replace the circulating water or add ice cubes to the water to cool it down (it is recommended that users use a cooling machine or use two water tanks).

Cleaning the water tank: First, turn off the power, unplug the water inlet pipe, and allow the water inside the laser tube to automatically flow into the water tank. Turn on the water tank, remove the water pump, and remove any dirt from the water pump. Clean the water tank, replace the circulating water, restore the water pump back to the water tank, insert the water pipe connecting the water pump into the water inlet, and organize all joints. Turn on the water pump separately and run for 2-3 minutes (fill the laser tube with circulating water).

Method for extending the service life of stainless steel laser cutting machine:

Cleaning of the fan: Due to long-term use, a lot of solid dust will accumulate inside the fan, causing it to produce a lot of noise and not conducive to exhaust and odor removal. When the suction of the fan is insufficient or the smoke exhaust is not smooth, first turn off the power supply, remove the inlet and outlet ducts on the fan, remove the dust inside, and then invert the fan and pull the fan blades inside until they are clean. Then, install the fan properly.

Method for prolonging the service life of stainless steel laser cutting machine: cleaning the guide rail (recommended to be cleaned every half month, shutdown operation). As one of the core

components of the equipment, the guide rail and linear shaft are used for guidance and support. In order to ensure high machining accuracy of the machine, it is required that its guide rail and linear axis have high guiding accuracy and good motion stability. During the operation of the equipment, due to the production of a large amount of corrosive dust and smoke during the processing of the workpiece, these smoke and dust accumulate on the surface of the guide rail and linear shaft for a long time, which has a significant impact on the processing accuracy of the equipment and can form corrosion points on the surface of the guide rail and linear shaft, shortening the service life of the equipment. In order to ensure the normal and stable operation of the machine and the processing quality of the product, it is necessary to carefully carry out daily maintenance of the guide rail and linear shaft.

In short, to extend the lifespan of stainless steel laser cutting machines, it is essential to do a good job of cleaning and maintenance. If the stainless steel laser cutting machine is often trapped in complex work and not cleaned properly, it will definitely have a significant impact on its lifespan, so we should actively do it in this regard!