

THE DIFFERENCE BETWEEN LASER CUTTING MACHINE AND CNC CUTTING MACHINE

Posted on 2023-08-29 by redsail



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There are three main types of table cutting machines used for thermal metal processing. The first is the industrial desktop cutting machine, the second is the advertising [desktop cutting machine](#), and the third is the laser cutting machine. For these three types of desktop cutting machines, they can complement each other and can be applied to a certain industry respectively. The following is the specific analysis and explanation:

At present, advertising desktop cutting machines occupy most of the Chinese market. This machine is also designed for high-speed, high-precision cutting of thin plates. When purchasing a desktop CNC cutting machine, customers must be clear about the price, cutting method, processing accuracy and production field of the machine they are buying, choose a CNC cutting machine reasonably, and purchase a particularly suitable cutting machine at a particularly low price! Laser cutting machine is a particularly high-precision steel plate finishing equipment.

Laser cutting machines are divided into fiber laser cutting machines and YAG (dry laser cutting machines) laser cutting machines. The error can generally be controlled below 0.3 mm, but the price is also very expensive! At present, fiber laser cutting machines are mainly used to cut plates of 0.5-100 mm. The price is around tens of millions of pounds. They are acquired by large state-owned enterprises, foreign-owned enterprises or large conglomerates. This is also a particularly good metal processing equipment at present, but its price is unacceptable! At present, the processing thickness of laser cutting machines can be divided into several extreme types. Generally, those below 5 mm are used, and those above 5 mm to 16 mm belong to high-power laser cutting machines.

Industrial desktop CNC cutting machine: mainly used for processing product parts, mainly for cutting medium and thick plates, the cutting accuracy is about 0.5 mm, and the cutting thickness is 3-18 mm thick low carbon steel plate, stainless steel plate and 3-16 mm non-ferrous metal plate. The cutting method is mainly plasma cutting. Advertising desktop cutting machine: mainly used in the advertising cutting industry, such as advertising text cutting, advertising handicraft cutting, thin plate parts with low cutting precision requirements. At present, the market is common, and the main buyers are the advertising processing industry, as well as stainless steel, copper plate, aluminum plate, and other thin plate processing industries! The cutting thickness is generally between 0.5mm and 3mm, and the precision is very high. If equipped with a better plasma power supply, the cutting thickness can reach 6mm-10mm, and the cutting accuracy can reach 0.5mm!