

ADVANTAGES OF LASER CUTTING MACHINE

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REDSAIL CM2435 LASER ENGRAVING/ CUTTING MACHINE

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Why are so many people choosing [laser cutting machines](#)? It has many advantages.

The first point is that it has high precision. The whole cutting process is controlled by computer without any deviation. It is suitable for cutting precision accessories and fine cutting of various craft works and paintings. Compared with wire cutting, its speed is more than one hundred times faster. Because of its high speed, the heat-affected zone is small, it is not easy to deform, the slit is smooth and beautiful, and no post-processing is required. Its cost performance is also quite high, the price is only 1/3 of the CO2 laser cutting machine with similar performance, and 2/5 of the CNC punching machine with the same function. In addition, its use cost is also very low, only 1/8 to 1/10 of similar CO2 laser cutting machines, the cost per hour is only about 18 yuan, and the hourly cost of CO2 laser cutting machines is about 150 to 180 yuan. Subsequent maintenance costs are very low, only 1/10 to 1/15 of similar CO2 laser cutting machines, and 1/3 to 1/4 of CNC punching machines with the same efficiency. And its performance is stable to ensure continuous production. Solid-state YAG laser is one of the most stable and mature products in the laser field.

Compared with CNC punching machine, YAG laser cutting machine has the following advantages:

- (1) It can complete the processing of various complex structures, as long as it can draw any image on the computer, the machine can complete the processing.
- (2) There is no need to open a mold, only the drawing is made on the computer, and the product can come out immediately, which can quickly develop new products and save costs.
- (3) The YAG cutting machine has an automatic tracking system, so it can complete both plane cutting and various uneven surface cutting.
- (4) The complex process requires CNC punching to be difficult to complete, but laser cutting can do it.
- (5) The surface is very smooth and the product grade is very high, which is difficult for CNC punching machines.
- (6) The formed box (thickness less than 0.5 meters) needs to be processed by adding holes and grooves. The CNC punching machine cannot handle it, and the YAG CNC metal laser cutting machine can solve it.