

CUTTING ACCURACY OF LASER CUTTING MACHINE

Posted on 2023-08-18 by redsail

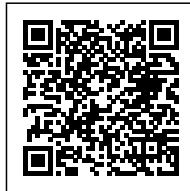
REDSAIL CM2435 LASER ENGRAVING/ CUTTING MACHINE

20+ years of production experience,
we are professional manufacturer with reliable strength

[VIEW MORE](#)



Category: [Laser Cutter News](#)



Laser cutting machine has the advantages of high cutting precision, fast speed, not limited by cutting patterns, and low processing cost, and is gradually replacing traditional metal cutting process equipment. At present, the application range of laser cutting machines is getting wider and wider, and the cutting accuracy of laser cutting machines is related to the processing technology, so it is also one of the most concerned issues for purchasers.

For the understanding of laser cutting precision, many people have certain misunderstandings. In fact, the cutting accuracy of the laser cutting machine does not entirely depend on the equipment itself, but is affected by many factors. Next, let's take a brief look at what factors are likely to affect the cutting accuracy of the laser cutting machine?

1. The spot size of the laser beam after it passes through the focus. The smaller the spot after the laser beam is gathered, the higher the cutting accuracy.
2. The positioning accuracy of the worktable determines the repeatability of cutting. The higher the precision of the table, the higher the precision of cutting.
3. The greater the thickness of the workpiece, the lower the accuracy and the larger the kerf. Since the laser beam is conical, the slit is also conical, and it is also stainless steel. The 0.3mm stainless steel is much smaller than the 2mm stainless steel slit.
4. The material of the workpiece has a certain influence on the accuracy of laser cutting. In the same situation, stainless steel can be cut with higher precision than aluminum, and the cut surface is also smooth.