

# HOW TO IMPROVE THE PROCESSING EFFICIENCY AND CUTTING PERFORMANCE OF LASER CUTTING MACHINE

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In the cutting industry, due to various factors such as environmental protection in recent years, the role of laser cutting machines in the development of the sheet metal industry has become increasingly prominent. Today, REDSAIL [laser cutting machine](#) will introduce six practical functions in the cutting process. With these practical functions, the processing efficiency and cutting performance of the laser cutting machine can be greatly improved. Please see below for details:

How to improve the processing efficiency and cutting performance of laser cutting machine

1. The higher the output power of the laser, the better the cutting quality will be on the same thickness of the plate. The better the laser's cutting pattern fits the material, the better the cutting quality will be.
2. Only when the focus of laser cutting is aligned, the precision and accuracy of cutting can meet the requirements.
3. Laser cutting is suitable for cutting thin plates. The cutting effect of carbon steel below 12mm and stainless steel below 6mm is obvious, the quality is good, and the efficiency can also be guaranteed. For example, when the material thickness is <1mm, the material cut is extremely smooth.
4. No matter what kind of material the laser cuts, if the matching degree between the cutting speed and the material can be achieved better, then the cutting effect at this time is better, too fast or too slow will affect the effect of laser cutting.
5. The higher the pressure, the higher the purity of the gas, the less dross adhered to the material, and the smoother the cutting edge. Different gas types have different cutting speeds and effects. Generally speaking, the cutting speed of oxygen is faster, the cutting effect of nitrogen is better, and the cutting cost of air is lower.
6. Generally speaking, the smoother the surface of the material, the better the cutting quality. Through independent research and development, the laser has an automatic sensing system, which can automatically adjust the height of the cutting head according to the different thickness of the material.

According to the requirements of processing technology, set up accurate cutting procedures.

The fiber laser cutting machine also needs to do a good job in daily maintenance. In normal work, it is also necessary to strengthen the understanding of all aspects of the machine and continuous learning, so that if you encounter small problems in the future, you can solve them at a faster speed. In this way, it can be maintained in place, so that the service life of the fiber laser cutting machine is longer. This will also help the fiber laser cutting machine to cut patterns of different shapes, which requires the laser cutting machine to set a better cutting program according to different cutting processes during operation to work. As a kind of advanced cutting equipment, fiber laser cutting machine can often complete the cutting work of metal sheet or pipe with high efficiency and high quality.