

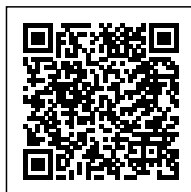
# WHAT TYPES OF LASER CUTTING MACHINES ARE THERE?

Posted on 2023-06-09 by redsail



**Category:** [Laser Cutter News](#)

**Tags:** [CO2 gas laser cutting machine](#), [fiber laser cutting machine](#), [high-power laser cutting machine](#), [low-power laser cutting machine](#), [medium-power laser cutting machine](#), [metal laser cutting machines](#), [non-metal laser cutting machines](#), [YAG laser cutting machine](#)





Laser cutting machine

## 1. Classification by cutting material type

There are two types of **metal laser cutting machines** and **non-metal laser cutting machines**. This is a good distinction. Generally, metal laser cutting machines are used when metal materials are needed, and non-metal laser cutting machines are used when cutting non-metal materials.

## 2. Classification by laser type

According to the laser type classification of laser cutting machine, it can be divided into three types: **fiber laser cutting machine**, **CO2 gas laser cutting machine**, and **YAG laser cutting machine** which

has been eliminated. Now the mainstream type of laser cutting machine in the domestic market is fiber laser cutting machine.

### **3. Classification according to laser output power**

According to the classification of laser output power, it can be divided into three types: **high-power laser cutting machine**, **medium-power laser cutting machine**, and **low-power laser cutting machine**. The laser output power required by different application fields is also different. In the industrial field, high-power fiber laser cutting machines are mainly used, while in the laser engraving field, medium-power laser engraving and cutting machines are mainly used.

### **4. Classified according to the width of the cut sheet**

The cutting sheet format can be divided into two types: standard format and large format, so the laser cutting machine can also be divided into two types: standard format laser cutting machine and large format laser cutting machine. The cutting length of the large-format laser cutting machine in the X-axis direction is more than 8000mm, and the cutting width in the Y-axis direction is mostly 2500mm, while the cutting area of the standard format cutting machine is generally about 3000mm×1500mm, 4000mm×2000mm.

### **5. Classification according to the geometric shape of the cut sheet**

The types of cutting sheets can be divided into flat sheets and three-dimensional sheets. Flat sheets are generally cut by flat laser cutting machines, while three-dimensional sheets can be cut by robot laser cutting machines, three-dimensional five-axis laser cutting machines, etc.