

# HOW TO CHOOSE A LASER ENGRAVING MACHINE?

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# How to choose a laser engraving machine?

There are many kinds of [laser engraving machines](#) on the market, including imported machines with original packaging, machines designed and produced in China, machines with imported parts assembled in China, professional engraving machines, professional marking machines, and professional cutting machines. There are also machines with more than two functions, so how to choose? The following points may help you think:

## What material to engrave on

According to the difference of laser production, laser engraving machines can be roughly divided into two types: YAG and CO<sub>2</sub>. The former is mainly for the application of metal products, while the latter is mainly for non-metallic products. Most of the laser equipment on the market is the latter.

## Product content to be processed

Laser equipment can be roughly divided into engraving, cutting and marking in different ways. Basically, some are special-purpose machines, and some have multiple functions. You should choose according to your main needs.

## The size of the product to be processed

That is to choose the format size of the laser engraving machine, but it should be noted that the large format of the machine is not necessarily good, because of course the equipment with large format is more expensive, and some machines with poor quality have an average laser output of each point on the large format. The degree of instability is unstable, resulting in different shades of engraving products on the same table, so it is correct to choose the most appropriate format.

## **Laser tube power**

Depending on the material and content of the engraving, the appropriate laser tube wattage should be selected. For example, the engraving of acrylic and two-color boards does not require too much laser tube power, but such as wood and stone engraving and cutting of any material It may require a higher power laser tube to achieve twice the result with half the effort.

## **Speed**

Only by producing more products at a faster speed in a short period of time can we create higher profits, so the speed is often the key to whether we can receive orders and make money. The maximum speed of American Epilog laser equipment is 304.8cm /sec, and the lowest speed is 203.2cm/sec, which is quite different from the 106cm/sec of the general products on the market.

## **Accuracy**

The biggest difference between laser engraving and traditional engraving equipment and manual engraving is high precision. At present, only American Epilog laser equipment in the world can reach 1200 dpi, while other imported brands and a few domestic products can reach 1000 dpi. very low.

## **After-sale maintenance service**

The after-sales maintenance service of machinery and equipment is very important, but people often fall into a wrong myth. People always think that because domestically produced machines are produced in China, parts can be obtained quickly and conveniently. They don't know that imported machinery and equipment with high quality are not easily damaged. Therefore, there is no need for frequent maintenance. On the contrary, machines with poor quality need to pay special attention to this point because they are often damaged.