

WHAT IS THE DIFFERENCE BETWEEN DIFFERENT POWERS OF UV LASER MARKING MACHINES

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Anyone who knows about [UV laser marking](#) machines knows that UV laser marking machines have a lot of power, and different powers also make UV laser marking machines have different application scenarios. Today we will take a look at the difference between different power UV laser marking machines.

Ultraviolet laser marking machines are generally used for marking precision equipment. Due to the small focus spot and small processing heat impact, the marking accuracy is higher than other laser marking machines on the market, so the price is relatively expensive. Common UV laser marking machine power is generally 1.5w, 3w, 5w, 10w, 15w. Different products have different powers of UV laser marking machines.

1.5-5W UV equipment is mostly used for precision marking. Generally, the greater the power, the higher the price. 10-15W equipment is expensive and is mainly used for precision cutting and precision drilling. There are mainly materials that are difficult to cut such as FPC, ceramic sheets, and glass sheets. When purchasing a UV laser marking machine, you should pay attention to the following:

1. Check whether the beam quality output by the laser is good, including the stability of the mode and mold;
2. Whether the output power of the laser is large enough (this is the key to speed and effect), and whether the energy is stable (usually 2% stability is required, and in some occasions 1% is required to process the ideal effect);
3. Whether the laser is reliable and should be able to work continuously in harsh industrial processing environments;
4. It depends on whether the operation is simple and convenient, the control keys have clear functions, can reject illegal operations, and protect the laser from damage;
5. Carry out a marking test before purchase, and confirm the purchase after the effect is achieved;
6. The laser itself should have good maintenance, fault diagnosis and chain functions, and the downtime should be short.

The above is the difference between different power UV laser marking machines. The editor recommends that users use 5W equipment as far as the economy allows when purchasing a UV laser marking machine. Compared with 1.5W devices, it is more expandable and saves more space.