THE TECHNICAL METHOD OF LASER ENGRAVING MACHINE ENGRAVING ACRYLIC

Posted on 2023-08-14 by redsail

Category: Laser Cutter News

Acrylic (a type of plexiglass)

Acrylic is the most commonly used carving material after wood, it is easy to cut and carve, comes in a variety of shapes and sizes, and is relatively inexpensive. There are two production processes for plexiglass: casting and calendering. Laser engraving machines mainly use plexiglass produced by casting, because the frosting effect produced after laser engraving is very white, which is in sharp contrast with the original transparent texture. The calendering method The plexiglass produced was still transparent after laser engraving, without a sufficient contrast effect. When buying plexiglass, you should emphasize to the dealer that it is a good kind with high purity, otherwise the purchased material may melt when engraving or cutting.

Under normal circumstances, plexiglass adopts the back carving method, that is to say, it is carved from the front and viewed from the back, which makes the finished product more three-dimensional. When engraving on the back, please mirror the graphics first, and the engraving speed should be fast and the power should be low. If the power is too high during engraving, uneven stripes will appear on the bottom surface. If you want to engrave deeper, you can try engraving several times. In the case of back carving, for partial coloring, the colored part should be carved deeper, and then polished with a flame polishing machine before it can be filled. If it is not polished, the color seen from the front will not be uniform.

Plexiglass is relatively easy to cut. If the customer's requirements are not high, it can be delivered after cutting without flame polishing. Otherwise, the blowing device should be used when cutting to improve the quality of the cut. When cutting plexiglass over 8mm, large-sized lenses should be replaced.

Note: The operator must not leave when cutting plexiglass, and there may be flames during cutting.