

APPLICATION TECHNOLOGY OF LASER CUTTING OF PLASTIC PRODUCTS

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At present, the most advanced plastic processing equipment can be processed by a [laser cutting machine](#), which uses the high temperature characteristics of the laser to process the laser cutting machine to the surface of the plastic material, and uses the high temperature characteristics of the laser to melt the material, so that the laser and the plastic product move according to a certain trajectory , to obtain ideal plastic products.

When mentioning plastic products, many people think of buckets, baskets, pots, etc. sold at roadside stalls. With the development of science and technology, plastic products are not only the above-mentioned products, but also automobiles, electronics, medical equipment, and even aerospace high-tech, It is used in cutting-edge fields. However, in order to be applied in these high-end fields, the plastic material itself must not only meet the requirements of laser cutting processing, but also solve the theme of laser marking processing, and solve the problem of how to achieve precision, cleanness, Quick, efficient question. Laser cutting for plastic processing has the following advantages:

The nozzle of the plastic laser cutting machine is of good quality, which belongs to non-contact cutting, and the cutting edge is less affected by heat, and there is almost no thermal deformation of the workpiece, which completely avoids the collapse formed during mold punching. The laser cutting seam is smooth, and generally does not require secondary processing.

Laser cutting machine processing plastic materials can increase the speed of new technology product development: after the product drawing is formed, laser processing can be carried out immediately, and new plastic product samples can be obtained in the shortest production cycle.

Laser cutting machine cuts plastic materials and saves plastic mold costs. Plastic laser cutting does not require molds, no mold consumption, no need to repair molds, saves time for mold replacement, saves processing costs, and reduces production costs. It is suitable for large products or small batches of plastic products. processing.

Plastics are widely used and are indispensable parts in home appliances, automobiles, mobile phones, PCs, medical equipment, and lighting appliances, so the processing and application of plastics is also essential.

The same tissue box, but this tissue box processed by laser cutting technology has better light transmission and is as transparent as crystal. It is very suitable for use in homes, hotels, offices and

other places. At the same time, laser engraving technology can be used to engrave personalized logos.

It is undoubtedly the best choice to use a CO₂ laser engraving machine to engrave advertising crystals. The crystal characters above are engraved with a laser engraving machine at one time, without additional polishing, and are very flexible. The equipment is used for cutting and processing of plastic materials. When processing plastics, the traditional mechanical processing method is to directly act on the plastic workpiece such as a drill bit, which is easy to cause plastic deformation, and also forms burrs on the processing part. In order to meet the production requirements, the processing speed needs to be processed, so that the processing speed will slow down, and the precision cannot meet the requirements. However, the use of laser cutting can avoid the above disadvantages, greatly speeding up the research and development of new plastic products, and also promoting the application of plastics in high-end fields. With the improvement of people's living standards, the market prospect of laser cutting and processing acrylic gifts is getting better and better. Laser cutting is favored by people for its high-speed and simple processing advantages. Laser cutting and processing acrylic handicrafts can be stored for a long time without changing color and moisture, and can be permanently bright.