

PRECAUTIONS FOR LAYOUT OF LASER CUTTING MACHINE

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Laser processing can design and cut various graphics, which has been widely used in the metal processing industry. Before cutting, it is necessary to import the drawings into the equipment program, and then use the typesetting software of the equipment to arrange the graphics on the plate, and the equipment can perform batch cutting according to the drawings. The following big picture laser will give you a brief explanation of the precautions for [laser cutting machine](#) typesetting.

1: Reasonably plan the cutting route

The cut parts will sometimes tip over. If the laser cutting head is rerouted again, it may cause damage to the cutting head and cause losses. Therefore, it is necessary to reasonably plan the path during typesetting, bypass the cut parts, and avoid collisions. At the same time, choosing the best cutting route can reduce cutting time and improve work efficiency.

2: Grasp the spacing of parts

When cutting thin plates, the spacing between parts can be appropriately narrowed. When cutting thick plates and hot plates, attention should be paid to leaving enough gaps during typesetting, because the thermal influence of thick plates and hot plates is relatively large, otherwise it will easily cause adjacent parts to be greatly affected by heat, or sharp corners and small graphics will be burnt, which will affect the cutting quality.

3: Corner cutting treatment

When cutting corners at reduced speed, the metal material at the corners will melt if the cutting time is long, and the increase in the heat-affected zone will degrade the product quality. A small radius can be generated at the corners, so that high-speed cutting can be maintained and good cutting quality can be obtained.

4: Lead setting

When cutting a thicker plate, in order to better connect the kerf and prevent burns at the beginning and end, usually a transition line is drawn at the beginning and end of the cutting, which are called lead and tail respectively. The lead and tail have no effect on the workpiece itself, so they should be arranged outside the range of the workpiece. At the same time, attention should be paid not to set the lead at sharp corners and other places that are not easy to dissipate heat.

5: Common edge cutting

Combining two or more parts with the same side can make large quantities of regular graphics co-side as much as possible, which can shorten the cutting time.