

ANALYSIS OF THE CAUSES OF ERRORS IN LASER CUTTING MACHINES

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What are the reasons for errors in laser cutting machines? Next, I will explain to you.

The thickness of cutting material exceeds the standard. Generally, metal laser cutting machines can cut plates with a thickness of less than 12 thicknesses. The thinner the plate, the easier it is to cut, and the better the quality. If the plate is too thick, the laser cutting machine can be difficult to cut, and under the condition of ensuring cutting, there will be errors in processing accuracy. Therefore, it is necessary to determine the thickness factor of the plate.

2. The laser output power is not up to standard. During the commissioning of the laser cutting machine, it is necessary to ensure that the laser output power meets the standard. Generally, the higher the laser output power, the better the cutting quality on the same thickness of the plate.

3. Roughness of the cutting plate. In general, the smoother the surface of the cutting material, the better the cutting quality.

4. The focus position is not accurate. If the focus of the laser cutting machine is not aligned, it directly affects the cutting accuracy, so it is necessary to calibrate and check before operation. You can also purchase Jinan Jinweike automatic focusing laser head when purchasing a machine to automatically focus and ensure cutting accuracy.

5. Processing speed. The cutting speed of a laser cutting machine directly affects the machining accuracy. Therefore, it is also necessary to achieve a good fit between the cutting speed and the material before running.

The above is the reason for errors in laser cutting machines. Do you want to learn more? Please continue to follow us.