

HOW SHOULD THE LASER CUTTING MACHINE ADJUST THE FOCAL LENGTH?

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There are many people who bought a [laser cutting machine](#) and don't know how to adjust the focal length. Here, Zhiyuan laser technical engineers share the method of adjusting the focal length of the laser cutting machine with everyone, and look forward to some help to everyone.

How to adjust the focal length of the laser cutting machine:

The first method: because the spot at the focal point of the laser cutting machine is the least, press the "Aiming" button to determine the focal length according to the height of the spot. That is to say, at the last hour of the laser spot, it can be considered as the best aspect ratio of the laser head when cutting objects.

That is, put an object under the laser head to adjust the aspect ratio of the laser head. When the laser head position is different from the aspect ratio, press the "Aim" button to observe the size of the spot. First, the laser head can be adjusted sharply. Find the area of the laser head with a smaller spot, and then fine-tune the height of the laser head in this area. At the last hour of the spot, it can be considered as the laser head position we want to adjust.

The second method: because the light intensity is the strongest at the laser focal length of the laser cutting machine, the focal length is determined according to the height of the laser on the object during self-inspection.

That is, place an object under the laser head to adjust the height of the laser head. When the laser head is at a different height, press and hold the "Positioning" button for more than 3 seconds. When the depth of the drawing is deep, it can be considered as the best aspect ratio of the laser head. That is, the aspect ratio of the laser head we want to adjust.

The above is a clear general term for the core part of the laser cutting machine, so when cutting different product workpieces and different raw materials, the selection of the core part of the laser cutting machine will also be different. The following is the relationship between the core part of the laser cutting machine and the material:

First, focal length cutting, the focus is on the surface of the product. The method used when the laser cutting machine cuts stainless steel plate, galvanized steel plate and other product workpieces. Since the focus is on the upper surface of the product, the periphery of the upper surface is cut smoothly, while the periphery of the lower surface is uneven.

Second, positive focal length, the focus is inside the product workpiece. The method used by laser cutting machines to cut stainless steel plates, aluminum profiles and other product workpieces. The focus is in the middle, so the area of the smooth surface is large, the cutting width is wider than that of zero focal length, the pressure of cutting gas is relatively high, and the perforation time is longer than that of zero focal length.