

# APPLICATION AND PRINCIPLE OF LASER CUTTING EQUIPMENT

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Laser cutting machine is a kind of laser equipment specially used for material cutting. According to different light sources, it can be divided into fiber laser cutting machine, carbon dioxide laser cutting machine and ultraviolet laser cutting machine; according to different processing materials, it can be divided into metal laser cutting machine and non-metal laser cutting machine; according to different power, it can be divided into It is a low-power laser cutting machine, a medium-power laser cutting machine and a high-power laser cutting machine.

What is the purpose of laser cutting equipment?

Laser cutting machines are mainly used for cutting material graphics, and generally have engraving functions. As long as the graphics are set on the software, the laser cutting equipment can process freely, with great flexibility. Whether it is metal carbon steel, silicon steel, stainless steel, aluminum alloy, titanium alloy, galvanized sheet, aluminum zinc sheet, copper and other materials, or non-metallic cardboard, cloth, wood, plastic, rubber, leather, wool, acrylic and other materials, can be easily cut off.

## **What is the principle of laser cutting equipment?**

Laser cutting equipment uses high-power-density laser beams to cut materials, so that the materials are rapidly heated to the vaporization temperature and vaporized to form holes. With the movement of the electric wave on the material, a very narrow width (such as about 0.1mm) cutting seam is continuously formed to complete the cutting of the material.

## **What are the characteristics of laser cutting equipment?**

(1) Good cutting quality (2) High cutting efficiency (3) Fast cutting speed (4) Non-contact cutting (5) Wide variety of cutting materials (6) Good adaptability and flexibility