

NECESSARY PROTECTIVE MEASURES FOR LASER CUTTING MACHINES DURING INDUSTRIAL OPERATIONS

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Laser cutting is a widely used processing method in the laser processing industry. The entire machine is stable and reliable, with good dynamic performance and strong load-bearing capacity. It is a high-tech product that integrates laser cutting, precision machinery, CNC technology, and other disciplines. It has the characteristics of high speed, high precision, high efficiency, and high cost-effectiveness. With the increasing use of laser cutting machines in various industries, operators of laser cutting machines need to take necessary protective measures to avoid unnecessary injuries during industrial operations.

1 Eye protection

Usually, when using a laser cutting machine, we habitually like to stare at the cutting head of the laser, but this habit is actually the biggest killer to the eyes, which is the most direct harm. Because staring at the sparks generated by cutting for a long time can be harmful to the eyes, and looking at them for a long time can cause a tingling sensation. At the same time, during laser cutting and processing, a special substance called laser will also be emitted. This substance is highly concentrated in the processing workshop and is directly focused on the retina through the refractive medium of the eye to form an image. This will make the energy density on the retinal retina higher than that on the cornea, which can cause damage to the cornea or retina of the eye.

2 Skin protection

In addition to the eyes, laser stimulation of the skin is also significant. Laser can cause damage to skin tissue, but this type of damage to the skin can be self repaired. Although it may reduce the overall function of the skin, it will not affect the overall functional structure. However, if not irradiated under the laser for a long time, it can cause burns or scars on the skin, although compared to the eyes, Laser damage to the skin is much smaller, but it should also be given sufficient attention.

3 Respiratory protection

Finally, when operating a laser cutting machine, it may have an impact on our respiratory tract. Because laser generates a certain amount of high temperature, which can only be combined with gas to complete various cutting tasks. During this process, a large amount of dust is generated, especially when processing some special metal materials. The dust generated contains many chemical components, so inhalation is harmful to the human body.

Laser cutting has a wide range of applications in various industries. When using it, do not follow the operating procedures carefully to better serve the public.