

# HOW TO SOLVE THE FOGGING OF THE PROTECTIVE LENS OF THE LASER CUTTING MACHINE?

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In the cutting process of CNC [laser cutting machine](#), auxiliary gas is essential! Among them, oxygen and nitrogen are commonly used. Of course, the higher the purity of the gas, the better the cutting quality will be. There are also many customers who want to save costs and use air cutting, but there is always water mist on the protective lens during the cutting process, and the cutting quality is very poor, so how to solve the fogging of the protective lens of the laser cutting machine? Let's take a look with the editor!

First of all, let me popularize the functions of the auxiliary gas:

1. To blow away the residual waste and achieve a good cutting effect.
2. Use the gas to blow away the metal slag while protecting the lens to prevent the slag from adhering to the lens and affecting the cutting quality.
3. It can effectively achieve the effect of smooth cutting surface, no burrs and no dross, which belongs to precision cutting.
4. It can react with the material to increase the cutting speed. For example, the use of oxygen can achieve the effect of combustion.

Therefore, in order to achieve a better cutting effect, the requirements for the auxiliary gas are relatively high! Although air can be used as auxiliary gas, since the air contains water and oil, if it is not treated, it will cause lens pollution, unstable cutting head, so that the cutting effect and quality are not up to standard. Therefore, when using air cutting, it is necessary to equip Wuhan fiber laser cutting machine with a cold dryer, which solves this problem well. The cold dryer can force the compressed air to be cooled below the required dew point temperature, so that a large amount of water vapor and oil mist contained in it can be condensed into liquid droplets, separated by gas and liquid, and discharged from the drainer to dry the compressed air.