

# REASONS FOR THE BURSTING OF PROTECTIVE LENS OF LASER CUTTING MACHINE

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The protective lens of the laser cutting machine is used on the cutting head. It is used to prevent dust pollution and slag splashing during cutting from damaging the focus lens of the cutting head. In addition to being widely used in the laser cutting machine, it is also commonly used in other laser equipment, including laser marking, laser welding and laser carving. It can be seen that the application market of protective lenses is very large.

During the processing and production process of the laser cutting machine, the laser energy is very large and the temperature is also relatively high. If there is water on the protective lens, the protective lens with very high temperature will burst immediately in case of water. Of course, we need to check the cause of the fault from many aspects:

1. First consider whether the auxiliary gas we blow is pure. Whether the pressure meets the standard. If air is blowing, we also have to check the quality of compressed air.
2. Then it is necessary to check whether the optical path has shifted and whether other lenses have been damaged in the process of laser emission.
3. Then it is necessary to check whether the diameter of the cutting nozzle used is too large.
4. Finally, check whether the timing configuration of cutting software for perforation blowing cutting is reasonable.

The main reasons for the bursting of the protective lens of the laser cutting machine are the above. When any abnormality is found, it is necessary to check the failure in time to avoid excessive loss of consumables.