

# WHAT KIND OF PROTECTION SHOULD A NEWCOMER TAKE WHEN OPERATING A LASER CUTTING MACHINE?

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Category: [Laser Cutter News](#)



After the laser was discovered in the 20th century, it has been widely used in many fields such as industry, military affairs, and medical communication by virtue of its high energy, monochromaticity, and directional emission characteristics.

At the same time, laser is also a double-edged sword. While it is creating all things intelligently and promoting social progress, it will also cause certain harm to the human body if used improperly.

Laser wavelength is 1060-1080nm, which belongs to invisible light and is more harmful.

What kind of protection should a newcomer take when operating a [laser cutting machine](#)?

It is necessary to wear safety protective glasses when operating laser equipment, so when using laser equipment, be sure to follow the correct operation requirements and take good protection at the same time.

1. Laser characteristics

Reasonable selection according to the wavelength and power density of the laser output

2. Optical density OD

The larger the OD value, the stronger the protective ability of the laser protective glasses

3. Visible light transmittance VLT

The VLT value is lower than 20%, laser protective glasses need to be used in good condition

4. The lens material is non-toxic, odorless and non-irritating

5. Protective goggles must be able to protect against side laser damage and must not cause reflected laser damage to others

Before using the laser, make sure all electrical wiring connections are in order.

It is forbidden for untrained personnel to operate laser equipment. Before turning on the main AC power supply, make sure that the main power supply is connected to a good ground to reduce the possibility of electric shock and prevent personal injury caused by electric leakage due to humid environment. Use laser equipment in strict accordance with the operating sequence

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