

## 8.6 safety

**Safety precautions:** In order to ensure operator safety and avoid harm to the laser system and the environment, the safety precautions and warning signs described in the following and subsequent sections must be strictly observed whenever the product is started. Otherwise, our company do not assume any responsibility.

### Precautions

- \* Be sure to read the instructions before using this equipment.
- \* No unauthorized or trained personnel are prohibited from entering the affecting areas and prohibit to operate the equipment;
- \* Operators must wear the standard laser protection glasses provided by our company to operate;
- \* When the machine is running, no one can enter the machine
- \*When the machine is under maintenance, the emergency stop of the machine should be photographed
- \* The laser of this equipment can produce higher power laser, which belongs to IV class laser equipment. Its output beam can penetrate into the skin surface and will cause subcutaneous tissue damage, what's more, it can cause irreversible damage to the human eye. Therefore, during operation the body must avoid directly or through other reflective material indirect contact with the laser beam;
- \* During light output state, any part of the body shall not cross the fence;
- \* Laser can make many items absorb light energy to burn, so it is strictly prohibit to place any flammable, explosive materials around the equipment to prevent fire;
- \* Laser equipment working environment must be installed with anti-shock wave, anti-vibration and other devices to avoid shock waves impact and damage.



\* Before starting the machine, make sure that the following safety measures are in place:

The grounding part of the equipment must be grounded to prevent static damage to the equipment and cause wounding.

Do not start the equipment if the laser's housing is open because the equipment is using laser. Otherwise it is easy to produce laser radiation due to the operator exposed to laser and cause personal safety accidents.

The equipment workplace must be installed with warning lights, markings, isolation zones and safety interlocks to prevent other personnel from entering the area and being subject to laser radiation.

All personnel at the workplace must wear laser protection glasses to prevent vision loss and damage caused by laser radiation.

It is forbidden to start the equipment in thunder and lightning.

\* Do not open the lid to adjust and repair the laser system. The maintenance and repair of the system only be done by the company's professional after-sales service personnel or authorized professionals.

\* The electrical cabinet door which is only available open to the maintenance manager. The non-service personnel are prohibited from opening the door.

\* Users need to provide computer/loptop host by themselves, the host should contain a dual network card, one for operating equipment, the other for accessing to the Internet and facilitating remote assistance, equipment can not access to Internet when it is work properly.

\* When preparing to repair the equipment, after turning off the power, the isolation switch must be locked Prevent operation.

\*When repairing the air path, lock the main air supply valve to prevent the cylinder from moving.