

LayoutMaster: Safety

It is the responsibility of the owner, employer, and user to take all necessary steps to guarantee the safety of all personnel in the workplace.

All personnel must be trained before operating the equipment, in order to perform their work safely. Adequate training of personnel should include:

1. A review of the inherent risks in the operation of the equipment.
2. A review of the inherent risks in the operation of the laser.
3. Familiarization with all equipment components and working tools to minimize the risks.
4. Detailed explanation, demonstration and supervision of safety procedures that must be observed by the user.
5. Instructions on personal safety.
6. Warning on possible effects of unsafe use, to ensure the safety of both the employee and the others.
7. The importance of cleanliness of the work area, for everyone's safety.

The operator must take all necessary precautions to ensure personal safety:

- Loose clothes, jewelry and other accessories should not be worn near mechanisms, which may cause a strangulation hazard.
- The employer should not allow a non-experienced person to operate equipment or perform maintenance without adequate safety training.
- The employer is responsible for the training of its operators and must inform them of the inherent risks in the use of the equipment. They should be supervised or assisted during their training.
- The employer should refer to the risk analysis grid and general safety rules to understand the risks surrounding the operation and maintenance of the robotic welding cell.
- AGT Robotics recommends new operators be trained by AGT Personnel rather than being trained by coworkers.

A summary of the inherent risks may also be available in project specific documents. Those documents may be presented during training wherever applicable.



SAFETY

Do not operate this system without receiving proper training and fully understanding this manual.



LASER

Class 2 visible-light lasers are considered safe for unintentional eye exposure, because a person will normally turn away or blink to avoid the bright light. Do NOT deliberately stare into the beam -- this can cause injury to the retina in the back of the eye.



OPERATION

Operator is responsible for all workers safety. Always make sure there is no one in the cell before starting up or running the system. Working around the welding cell can be dangerous; always wear proper PPE. The cell can project particles.



HOT PARTS AND COMPONENTS

Hot equipment and hot parts result from the welding cell, always wear heat protection equipment when you inspect or handle parts.



Arc Flash

NEVER stare at the welding arc without proper mask or shield
Always use appropriate PPE
Safety goggles block UV (polycarbonate)



SLIPPERY FLOOR

The use of cutting lubricant can cause a slippery floor. Always clean the floor before entering the production cell and be alert.



Pinch Points

The system has optional motorized rotators. Pinch points are present. Always wear proper PPE and be careful when working near motorized equipment.



SHARP EDGES

Some parts and particles can cause scratches and body injuries. Always wear PPE. During intervention in the production cell, take care of yourself and always pay attention to potential dangers.

