

SAFETY CHECKLIST

JASIC PLASMA MACHINE SAFETY INFORMATION

The potential hazards you may encounter while plasma cutting consist of:

- ◆ Potential electric shock risk
- ◆ Compressed air
- ◆ Burns from hot and molten material
- ◆ Exposure to noxious gas or toxic chemicals
- ◆ Plasma Arc Rays can injure you eyes and burn exposed skin
- ◆ Risk from airborne particles, dust and sparks (along with falling material)
- ◆ Elevated noise levels

To avoid these potential safety hazards and to ensure safe operation, follow the below ‘tick box’ checklist and fully familiarise yourself with the product and it’s operating manual.

Personal Protective Equipment (PPE)	
Hearing protection	
Welding mask/eye protection	
Half-face/air-purifying respirator	
Gloves	
Overalls or Sleeved jacket and trousers	
Safety footwear	
Pre-operational safety checks	
Is the operator familiar with all aspects of plasma cutting operation and controls?	
Have any emergency stops been located and tested to ensure they’re in good working order?	
Have all electrical connections to the plasma cutting machine been inspected, in good condition, secure and tight?	
Is the material/work piece safe to cut and poses no health risks? Review any Safety Data Sheets (SDS) for specific technical data and precautionary measures for any materials or coatings on metals being cut with this equipment.	
Are workspaces and walkways free of any trip and fall hazards?	
Are workspaces clean and free of oil, grease, and/or any other flammable materials?	
Is the supplied PPE, equipment and work space dry to avoid electrical shock?	
Is the supplied PPE, Plasma machine and torch and work leads in good, working condition?	

Operational safety checks	
Is the immediate area closed off to protect other workers from flashes?	
Is ventilation to the plasma cutter in good working condition?	
Ensure the plasma torch leads are away from the cutting area!	
Are work leads and hoses secured to prevent the trip and fall hazard?	
Is all required PPE available and equipped?	
Ensure if local fume extraction is used that it’s on and operational before beginning!	
Is the machine correctly set up for current, consumables and gas pressure?	
Are return cables making firm contact in order to provide a good electrical connection?	
Is the workpiece free of any paint, oxides, or other surface finishes to ensure a good electrical contact?	
Post-operational procedures checks	
Have the cut materials and the work piece cooled off?	
Is the fume extraction unit turned off?	
Is the plasma cutter turned off at the isolating switch?	
Make safe and secure the Plasma machine and torch, spare consumables & work lead	
Is the work area cleaned up and any tools and material put away?	
Has defective equipment been reported to maintenance department?	

- **Never leave the plasma cutter running unattended.**
- **If you have questions about the safe operating procedures of plasma cutters, please contact your supplier.**
- **This checklist does not necessarily cover all possible hazards associated with plasma cutting equipment and should be used in conjunction with other references such as on-site risk assessments and the machines operating manual.**