

STANDARD OPERATING PROCEDURE

WELDER - MIG

**ONLY TRAINED PERSONNEL
AUTHORISED TO OPERATE THIS EQUIPMENT**



Identified Hazards

- Electricity
- Hot & Flying Sparks
- UV / IR Radiation to Eyes and Body
- Fire
- Burns
- Suffocation (Shielding Gas Leak)
- Toxic Fumes
- Cuts

Personal Protective Equipment Requirements to Operate



Other | Additional PPE Requirements:

- Rings and jewellery should NOT be worn
- Long & Loose Hair must be contained
- Welding mask with correct grade lens for GMAW
- Welding apron with correct grade protection

Operating Instructions

Pre-Operational Safety Checks

- Inspect the appliance for obvious damage, including lead, plug end, gas bottle & fittings, and that the appliance has a current electrical safety tag fitted to the plug end.
- Ensure that the power supply is RCD protected.
- Ensure suitable & safe work area is provided:
 - Clean & free of grease, oils and other potentially flammable / combustible materials.
 - Adequate lighting.
 - Free from congestion & tripping hazards.
- Ensure shielding gas bottle is secured from accidentally being knocked over
- Protect other persons in the immediate area from any UV & IR radiation flash. Always enclose the work area using suitable UV curtains or screens. Where the work is outdoors, allow for the wind.
- Electrically isolate from the power supply if unsafe, making repairs or adjustments, or servicing.

Operational Safety Checks

- **NEVER** operate a faulty piece of equipment. Report any faults, problems or hazards **IMMEDIATELY**.
- Ensure required PPE is available and worn.
- Ensure the machine is correctly set up for current, voltage, wire feed and shielding gas flow rate.
- Ensure adequate ventilation is available. Exhaust the fumes mechanically or provide forced ventilation where required.
- Ensure the welding return cable (earth) makes firm contact to provide a good electrical contact.
- Ensure the work piece has been properly prepared, free of any paint, oxides or other surface finishes to ensure a good electrical contact.
- Take particular care to avoid accidental UV & IR radiation flash of the skin or eyes to yourself and others.
- Never leave the MIG welder running unattended.
- Regularly inspect the welding tip and shield for damage.
- When welding is finished or interrupted, turn off the shielding gas cylinder valve, turn off the machine and secure the hand-piece safely.
- Clean up and dispose of any debris from the work area both during and upon completion of the task.

REFER TO THE MANUFACTURER'S OPERATIONAL MANUAL FOR FULL SAFETY REQUIREMENTS