

Gas Metal Arc Welder

DO NOT use this machine unless a teacher has instructed you in its safe use and operation and has given you permission.

REMEMBER

PERSONAL PROTECTIVE EQUIPMENT:



Safety glasses must be worn at all times in addition to welding mask.



Sturdy footwear with rubber soles must be worn.



Respiratory protection devices may be required for some operations.



Rings and jewellery must not be worn.



Long and loose hair must be contained.



Close fitting/protective clothing to cover arms and legs must be worn.



Oil free leather gloves and spats must be worn when welding.



A welding mask with correct grade lens for GMAW must be worn.

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SAFETY OPERATING PROCEDURES

PRE-OPERATIONAL SAFETY CHECKS

1. Ensure no slip/trip hazards are present in workspaces and walkways.
2. Ensure the work area is clean and clear of grease, oil, and any flammable materials.
3. Keep the welding equipment, work area and gloves dry to avoid electric shocks.
4. Ensure the gloves, welding gun and work leads are in good condition.
5. Ensure other people are protected from flashes by closing curtain to welding bay or erecting screens.
6. Ensure fume extraction unit is on before beginning welding operation.
7. Ensure the work leads do not create a tripping hazard.
8. Faulty equipment must not be used. Immediately report suspect equipment.

OPERATIONAL SAFETY CHECKS

1. Ensure machine is correctly set up for current, voltage, wire feed and gas flow.
2. Ensure work return cables make firm contact to provide a good electrical connection.
3. Never leave the welder running unattended.
4. Take care to avoid flashes.

HOUSEKEEPING

1. Switch off the machine and fume extraction.
2. Close gas cylinder valve.
3. Hang up welding gun and welding cables.
4. Leave the work area in a safe, clean and tidy state.

POTENTIAL HAZARDS

- Electric shock
- Fume
- Radiation burns to eyes or body
- Body burns due to hot or molten materials
- Flying sparks

This Safety Operating Procedure does not necessarily cover all possible hazards associated with the machine and should be used in conjunction with other references. It is designed to be used as an adjunct to teaching Safety Procedures and to act as a reminder to users prior to machine use.

Date of last review

Signature