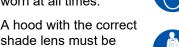


STANDARD OPERATING PROCEDURES MIG Welder

DO NOT use this machine unless you have received authorization from the Shop Coordinator



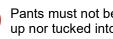
Eye protection must be worn at all times.



Long and loose hair must be contained.



Oil-free leather gloves must be worn.



Pants must not be rolled up nor tucked into boots.



Respiratory protection may be required.

Potential Hazards and Injuries

shade lens must be

worn when welding.

- Lectric shock
- A Fumes (respiratory hazard)
- 🗥 Radiation (eye & skin damage)
- Molten metal/Hot surfaces (burn hazard)
- A Flying sparks (burn hazard)
- 🛆 Fire

Pre-Operational Safety Checks

- Locate and ensure you are familiar with all machine operations and controls.
- Check workspaces, walkways, and routing of welding cables to ensure no slip/trip hazards are present.
- Ensure the work area is clean and clear of grease, oil and any flammable or combustible materials.
- Ensure the welding equipment, work area, your gloves and other PPE are dry to avoid electric shocks.
- Ensure your jacket, gloves, MIG gun and welding cables are in good condition.
- Ensure other people are protected from flashes by closing the curtain to the welding bay or erecting screens.
- Ensure the fume extraction unit is operating properly before welding. (Required unless the Fire Marshal has allowed welding in areas without fume extraction.)
- Verify lens function if using an auto-darkening hood.
- Review the SDS for the wire and gas to be used.
- Ensure personal hydration as PPE and direct exposure to heat can increase risk of heat illness.

Safe Practices During Operation

- Ensure machine is correctly set up (e.g., voltage, wire speed, and gas flow).
- Ensure good connection of ground cable to workpiece or table.
- Say "EYES" or "COVER" before initiating arc.
- Turn off the power before removing contact tip or accessing wire spool and drive roll area.
- Lay gun with care to avoid inadvertent triggering.

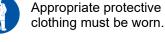
Ending Operations and Cleaning Up

- Turn off the machine and fume extraction unit when work is completed.
- Close the gas cylinder valve.
- Hang up the MIG gun and leads.
- Inspect area for fire risk, and label any hot items.
- Leave the work are in a safe, clean and tidy state.

DON'T

- \otimes Don't use faulty equipment; report it immediately.
- \otimes Don't leave the welder running unattended.
- \otimes Don't drape cables over body.
- \otimes Don't weld on drums, tanks, painted or plated materials, etc. without permission.

SOP must be used in conjunction with an effective training program



Sturdy closed-toe footwear must be worn.

Rings and jewelry must not be worn.