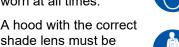


# STANDARD OPERATING PROCEDURES MIG Welder

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



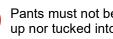
Eye protection must be worn at all times.



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.

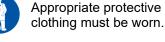
#### **Ending Operations and Cleaning Up**

- 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.