

Chapter 5

SMAW: Equipment and Supplies

Learning Objectives

After studying this chapter, you will be able to:

- Describe the differences between direct current (dc) and alternating current (ac).
- Interpret American Welding Society (AWS) abbreviations regarding welding current polarity.
- Identify the equipment and accessories used in shielded metal arc welding (SMAW).
- Identify factors to consider when selecting an arc welding machine.

Technical Terms

alternating current (ac)
bridge rectifier
chipping hammer
constant current (CC)
constant voltage (CV)
cover plate
cycle
diode
direct current (dc)

direct current electrode
negative (DCEN)
direct current electrode
positive (DCEP)
direct current reverse
polarity (DCRP)
direct current straight
polarity (DCSP)
droop curve machines

droopers
duty cycle
electrode holder
electrode lead
filter lens
flash goggles
frequency
gauntlet gloves
helmet
hertz
input power
inverter
lug
open circuit voltage (OCV)
polarity
primary current

rated output current
secondary current
shielding gas
shielded metal arc
welding (SMAW)
silicon-controlled
rectifier
slag
step-down transformer
terminals
voltage drop
welding outfit
welding station
wire brush
work booth
workpiece lead

Shielded Metal Arc Welding Principles

Shielded metal arc welding (SMAW) is a welding process in which the base metals are heated to fusion or melting temperature by an electric arc. The arc is created between a covered metal electrode and the base metal. A *shielding gas* protects the base metals, arc, electrode, and weld from the atmosphere during welding. The shielding gas is created as the flux covering on the electrode melts. When the flux solidifies, it forms a protective slag over the weld bead. The melting electrode wire furnishes filler metal to the weld. See Figure 5-1.

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Victor M. Corman



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