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 direopersduty cycle electrode holder electrode lead filter lens. flash goggles frequency gauntlet gloves belinnet: Insertize. input power. inverter Dang: open circuit voltage (OCV) polarity primary current

rated output current secondary current shielding gas shielded metal arc welding (SMAW) silicon-controlled rectifier. share. step-down transformer berminals. violtage dropwelding outfit. weelding station write brush work booth workpiece lead.

Shielded Metal Arc Welding Principles

Shielded metal are 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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