

# INNOVATIVE CRTE

## Electrical Recommendations for Installing a STRSW

Proper electrical setup is critical to ensure the safe and effective operation of your squeeze-type resistance spot welder. Please review the following guidelines and share them directly with your licensed electrician prior to installation.

### Wiring Recommendations

- Use 4-gauge wire for all resistance spot welder circuits.
- Each welder should have a dedicated run from the electrical panel.  
Do not daisy-chain (piggyback) multiple receptacles or loop wiring from one drop to the next.
- Resistance welders draw instantaneous currents between 300–10,000 amps, even though the average draw is much lower (in milliseconds). For this reason, overwiring is necessary to prevent voltage drop and ensure consistent performance.

### Recommended Breaker & Receptacle Setup

- For 208–240V, 3-phase welders, we recommend:
  - A 60-amp breaker
  - 4-gauge wiring
- If requested, machines can be shipped without a plug.
- If a plug/receptacle is requested, we highly recommend the use of a NEMA 15-60 configuration.
  - Receptacle recommendation: Hubbell HBL8460A (Please use this part number only.)
  - Receptacle specifications can also be found in your welder's product brochure.
- If you already have a different 3-phase plug in your shop, let us know. We can match it and provide pricing accordingly.

### Receptacle Orientation

- When installing the receptacle, position the three-phase ground at the 12:00 position.



- This orientation ensures optimal alignment with our preferred 90-degree plugs, resulting in a clean and secure connection.

### **Important Note**

If your electrician has any questions or concerns, we strongly encourage them to contact your CRTE representative before installation begins. We can be reached at 973-768-9812, or contact directly your sales representative.

*\* Always consult with your licensed electrician about any electrical changes to your shop's needs.*