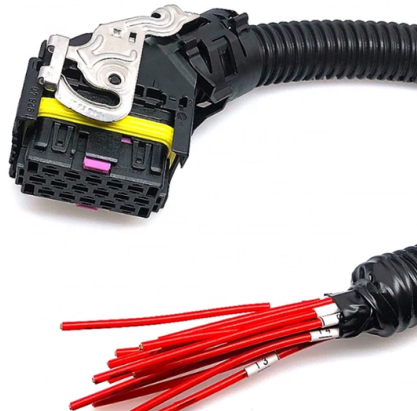


Distance between the distribution box and the welding machine



Summary of Content

Maintain a minimum clearance of 1 meter (approximately 3 feet) from the distribution box to the welding machine, with additional space for safe operation and maintenance.

Electrical Safety Clearance

For electrical panels or distribution boxes, safety standards recommend a minimum working clearance of 0.762 meters (30 inches) in front of the panel to allow safe access for operation and maintenance, with at least one entrance at each end of the equipment . This ensures that personnel can safely reach breakers, fuses, and switches without obstruction.

Welding Machine Considerations

Welding machines generate high currents and can produce sparks, heat, and electromagnetic interference. To reduce hazards:

- Position the welding machine at a safe distance from the distribution box to prevent accidental contact, overheating, or electrical faults. A minimum of 1 meter (3 feet) is generally recommended, though larger distances may be preferred in high-traffic or multi-machine workshops .
- Ensure clear paths for personnel and material handling to avoid tripping hazards or accidental contact with live electrical components.
- Avoid placing welding machines directly in front of or too close to panels, as sparks or metal debris could damage the panel or create fire risks.

Article Content

What are the standard requirements on the proximity of welds?

What are the standard requirements on the proximity of welds? Weld proximity is covered by a number of international standards.

SAFETY IN ARC WELDING AND CUTTING

The air blast of air carbon arc welding will cause the molten metal to travel a very long distance. Metal deflection plates should be

Electrical Panel Safety Clearance Guidelines

It outlines minimum clearance distances for working spaces, entrances, overhead lines, and exposed live parts. Clearances vary

Electrical Hazards

When attaching the welding current and current return cables, it is essential that an efficient contact is achieved between the

ELECTRIC AND MAGNETIC FIELDS (EMF) IN WELDING

- o Bundle the welding cable (hose package) and work cable and secure them with tape
- o Both cables must run on the same side of

The minimum distance between welds depends on the applicable

It is important to consult the applicable code or standard and/or a qualified welding engineer for specific guidance on minimum

Minimum Distance Between Welds: Technical Requirements Across ...

This technical article provides a comprehensive review of minimum weld spacing requirements according to major

1910.252

When welding or cutting is being performed in any confined spaces the gas cylinders and welding machines shall be left on the

Design and Inspection Guide to Minimum Weld Spacing

A free weld spacing checker calculator is included immediately below to help you determine the minimum required

ASME B31.3 Minimum Weld Spacing Distance Requirements

Radiographic testing typically requires 2-3 inches (50-75mm) minimum between weld toes to position equipment and

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://benniedesignstudio.co.za>

Email: sales@benniedesignstudio.co.za

Phone: +27 82 391 4765

Address: The Towers, 1 St Georges Mall, Cape Town, 8001, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

