

High efficiency vertical electroslag automatic welder with 2 electrodes

Outline

Our High efficiency vertical electroslag arc welding machine have been utilized as 1-pass vertical automatic welders in various applications such as stockpile tanks and ship hull plates. However, using electroslag arc welding requires additional measures to manage spatter, fumes, and provide wind protection against shielding gas during on-site welding operations. To address these challenges, we have developed and will showcase a new 2-electrode electroslag welder designed for extended lengths. The 2-electrode electroslag welder utilizes the technology cultivated by our existing electroslag welders.

Features

- 1 The adoption of a 2-electrode welding method, along with an oscillating stroke set to 80 mm, enables automatic welding of extra-thick steel sheets.
- 2 The two-electrode welding method facilitates highly efficient automatic vertical welding.
- 3 Stable long vertical automatic welding is achieved by leveraging the features of our electroslag arc welding machine and electroslag welder.
- 4 Minimal spatter or fumes generation enhances the working environment, whereas the elimination of spatter removal work improves workability.
- 5 A graphic display panel and numerical input of specific welding conditions allow for reproducible automatic welding.
- 6 The integration of PLC for control equipment facilitates the collection of welding data.
- 7 The absence of shield gas (CO₂) enhances wind resistance and contributes to carbon neutrality.
- 8 We are developing welding materials specifically for Our Welding Machine to further enhance efficiency.



Control panel



Face side bead



Reverse side bead

YM-55HF $\phi 1.6\text{mm}$