

4-Axis NC Saddle Welder

4-Axis Numerically Controlled (NC) Saddle / Nozzle Welding

This is a numerically controlled equipment for automated welding of nozzles (including flange nozzles) for orthogonal or offset joint with submerged arc welding process using KAIYUAN Make SAW Power Sources. It is an ideal solution for shells, domes, pressure vessels etc.

Salient Features

- Suitable for welding of nozzles on shells, cap seals, pressure vessels etc.
- Standard chuck mounted / optional boom mounted variant to meet the required application needs
- Digital Control Panel with user-friendly interface for parameter input
- 16-zone programming for accurate parameter setting while welding in different positions e.g. up/down slope
- 4-point teaching with pointer for centering maintains desired accuracy
- Improved quality: consistent parameter and process variables improves quality
- Enhanced productivity: up to 3 times faster than manual MMA welding

Application Segments

- Pressure Vessels



Technical Specifications	Value
Nozzle diameter	400 ~ 1600 mm
Vessel diameter	1000 ~ 6000 mm
Max shell thickness	≤300 mm
Nozzle height (on vessel)	300 ~ 700 mm
Vessel to Nozzle OD ratio	≥3
Torch inclination (radial)	±45 Deg
Torch inclination (circular)	±5 Deg
Welding speed	300 ~ 600 mm/min
SAW wire diameter	3.2, 4.0 mm
Nozzle joint type	Outer, Inner, Flat

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