



INDUSTRIAL AUTOMATION

INNER-DIAMETER WELDING

The Tebulo inner-diameter welder is designed to spot-weld in the eye of a coil so that the inner flap is fixed and does not fall back. An additional option is to spot-weld over the whole diameter of the eye so that a sleeve is redundant. That is why the inner-diameter welder is a sustainable and cost-effective solution.

The inner-diameter welder works on a standard robot for optimum mechanical reliability. The robots we use are operational in many steel plants and are specially designed to work under extreme conditions.

The robot has a specially designed head where the inner coil diameter and the head of the plate are measured by a laser. Also located in this head are the welding electrodes. After the measurement, the robot head will spot-weld the plate on several places.

FEATURES:

- Full automatic welding
- Flexible operation by using a standard robot
- Free programmable
- Quick replacement of standard robot components
- Remote communication with host for data and status
- Water-cooled welding head

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Standard Specifications

Type of spot-welding	Twin spot
Measuring time (approx.)	7 sec.
Weld depth	2 to 3mm (0.08 – 0.1 inches)
Minimum coil inner diameter	420mm (17 inches)
Total weight coil welder	3750 kg (8267 lbs.)
Control	Robot control PLC
Communication ethernet/profibus	DP
Communication protocol	Any standard
Power consumption	14 kW
Supply voltage	Any standard

