

welding technology

The 15-inch touch screen panel shows all process information in perfect organized design and facilitates easy operation by quick and intuitive handling.

The accurate reproducibility of welding results is assured by parameter storage on system hard disc, and for additional backups all usual storage media are convenient.

The integration into local or global networks are key benefits for professional production and service.

To ensure continuous welding quality, upper and lower limits for all profile parameters may be set to individual values for warning and alarm.

When exceeding these limits the operator will be advised about necessary optimization or the system shuts down.

Welding and process parameters like current, voltage, speeds and amount of shielding gases are continuously recorded with indication of limit tangency.

Linking with local networks simplifies report and documentation of quality and production.

This high definition and network compatible camera system, with simultaneous video and parameter display, simplifies fault analysis, torch adjustment and process optimization. Continuous recording with process parameters completes the quality documentation.

The active speed tracking controls all welding parameters dependent on the full range of production speed. Only the adjustment of minimal, nominal and maximal rates are required for automatic calculation and set-point tracing.



It's up to you to improve your production. Let's do it !

Take advantage of our innovations and experiences for your products.

- maintenance – extension of the life cycle
- repairs – preservation of the total functional range
- optimization – increase of efficiency and performance
- upgrading – customization and economic efficiency
- training – expert knowledge and practice
- service – professionalism and velocity

If you are interested in our products we would like to send detailed information. Please ask us to find solutions.



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welding technology
power supply



microwave generator

high current arc supply

power stage aix-PP1500

Welding controller and power stage are the most essential components for the performance at arc welding. Especially with AC processes high dynamic and parameter control within microseconds range are required. Precisely measured data, short response time and high power capability are elementary for accurate welding results.

The secondary switchmode bridge configuration reduces commutation times to 50 μ s and permits definite and accurate phase changes. Frequencies up to 1.500 Hz with additional modulation at low and high currents develop new applications with a large range of adjustability in current profile, pulse width and symmetry.

This bridge topology leads back the entire commutation energy to the welding process and increases durability and economy.

Aluminium alloys like 1050, 1200, 3003, 3105 and 8006 are standards in production today. Aluminium tapes in wide range of hardness and alloy are applied for different requirements. Diversity in manufacturing technologies, transport and storage demand specific welding conditions.

- ready for the future
- high energie-efficient
- high reliability due to water cooling
- stable AC process also at high frequencies

torch aix-E400

The arc length is one of the most essential parameters in continuous multilayer pipe production. Melting losses require the periodical readjustment of welding electrodes.

Consequences of incorrect arc length may be unacceptable results like penetration or pin holes.

This TIG torch continuously controls the accurate electrode position for a long production period with absolutely constant quality.

Up to 100 mm of electrodes may be melted off in uninterrupted operation.

- automatic arc length regulation
- high performance water cooling
- efficient and economic
- compact design
- quick maintenace
- compatibility

quality management aix-QMS

This management system arranges the central control for all components of production lines for multilayer pipe, increases quality, avoids faults and indicates weak spots.

Complex automated systems like those for multilayer pipe production are assembled from several units. Each is equipped with its own computer control and monitoring system.

In case of an irregularity alarm, messages request the operator to intervene. Frequently, the irregularity of one component affects all further units and if the cause occurs at any initial position the operator would not be able to stabilize the production line.

aix-QSM integrates all information from each component and controls each affected unit in case of irregularities.

- improved operating grade
- reduction of faults and increased quality
- visualisation of flow of materials
- access to business administration
- acquisition of expenses
- documentation of abrasion and failure
- preventive maintenance