Success Story

Flexible solution for automated welding

CLOOS "All in one” system facilitates the production process at Atmos

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Haiger/Bělá pod Bezdězem, November 2015 – In the spring of 2015, the Czech specialist in solid fuel boiler production began operating two new "All in one" systems by CLOOS. Atmos now successfully operates a total of 15 welding robots supplied by Carl Cloos Schweisstechnik GmbH. The new series of compact robot systems combines high productivity with optimum efficiency.

The Czech family business Atmos is one of Europe's leading manufacturers of solid fuel boilers. Its product range includes wood, coal and pellet boilers as well as combined boilers for pellets, natural gas and oil. Atmos exports more than 80 per cent of its products abroad, mainly to Germany and other European countries. "Our products are characterised by an optimal price-performance ratio," explains Petr Antonín, Production Director at Atmos. "The demands our customers place on our products are high, so they expect the best quality and functionality."

QIROX robots weld boilers

The two new robot systems are used to weld boilers and have significantly expanded the company's production capacity. The heart of the identical systems is the QIROX QRC-350 welding robot. The C-shaped frame with rotating extension arm positions the robot overhead. This increases the working envelope of the robot and facilitates welding of the complex boilers. The workpiece positioner with turning andswivelling movement and vertical stroke always brings the workpieces into the perfect welding position.

Photo 1: Atmos has commissioned two new CLOOS robot systems in order to increase production capacity

All components on a single base plate

The special feature of the QIROX "All in one" system is that workpiece positioner, robot and robot positioner become one. The individual components are mounted and aligned on a base plate. This allows fast and economical installation making further fine adjustments unnecessary.

Photo 2: In "All in one" systems workpiece positioner, robot and robot positioner become one.

In addition, the electrics and mechanics for the machines are pre-installed in full, making assembly and maintenance work simple and time-saving. The user-friendly operation guarantees simple, precise and intuitive handling. The new systems are characterised by highest programming quality so that re-teaching is reduces to a minimum. Since the two new systems at Atmos are identical, the existing programs can be adopted without significant effort ensuring maximum flexibility.
The compact systems could be integrated into the production easily and space-saving. Their modular design makes it possible to add individual enhancements and upgrades at any time.

Trust-based partnership with CLOOS Prague

As a long-standing CLOOS customer, Atmos exclusively uses CLOOS robots for its welding processes. "Over the years we have built up a trust-based partnership," emphasised Petr Antonín. "We especially value the fast service and quick response times at CLOOS Prague. In addition, CLOOS also provides intensive support in the form of training for our staff."

Photo 3: The Czech family company manufactures a wide range of solid fuel boilers

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Photo 4: Atmos has worked in close cooperation with CLOOS Prague for many years.

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