

PRODUCTION TIME REDUCED BY 50 PERCENT, COMPETITIVENESS SIGNIFICANTLY INCREASED

THE SWITCH FROM MANUAL WELDING TO THE LORCH WELDING COBOT HAS PAID OFF PERFECTLY FOR RÖSLER

Rösler Oberflächentechnik GmbH is a global market leader in the production of vibratory finishing and shot blasting equipment. With its 1700 employees, it represents the highest manufacturing quality. The company offers excellent solutions for treatment of component surfaces on anything from small crank rods to 20-metre-long workpieces. The core elements are turbines that feed the blasting material into the chambers in the field of blasting technology. The company applies the Cobot Welding Package from Lorch with great success in the demanding production of manganese steel turbine housings. The alloyed high-performance steel is very difficult to weld. The sheets used, which are eight to ten millimetres thick, warp quickly, and there's plenty of spatter, too. Therefore, the time required for post-processing of the workpieces was very high for these parts. The cobot helps the company cut production time per

turbine in half while benefiting from easy reproducibility of high-quality weld seams. Rösler's investment in the cobot has almost completely paid off already after only 10 months.

OUR CUSTOMER AT A GLANCE

RÖSLER OBERFLÄCHEN- TECHNIK GMBH

- Untermerzbach, DE
- 1700 employees
- www.rosler.com



The Lorch Cobotronic software is so easy to operate that the first turbine housings could be welded with the cobot after no more than two days.



Optimal structure: The cobot in between two standard workstations. Three set-ups are enough to weld any weld seams of the turbine housing easily this way.



Perfect circumferential weld seam: The ring can be welded to the turbine chassis in a quality never seen before with the Cobot in spite of the difficult chassis (manganese steel).

Quick integration into work flows due to simple operation

THE COBOT NOW ALSO WELDS MANGANESE STEEL WITHOUT PROBLEMS

The welding cobot was quickly integrated into Rösler's work processes. Thanks to its user-friendly operation, it could be used after only two days of training and is now operated in two shifts by a total of four welders. The system is placed between two work tables and all weld seams of the turbine housing can now be welded fully automatically in three set-ups. Once the weld seam has been precisely programmed and stored, the cobot also

reproduces the weld seams in the highest quality on other parts. The cobot also impeccably completes the challenging circumferential weld seam on the outer turbine chassis. Optimal torch guidance and finely tuned adjustment of the welding parameters allows much better control of manganese steel, which is difficult in terms of "tensile stress". Time-consuming straightening of the workpieces is eliminated entirely.



"We have significantly strengthened our competitiveness by using the Lorch Cobot Welding Package."

*– Stephan Böhnlein,
production department head*

FACTS

- Quick installation
- Simple programming
- High flexibility in use
- Short equipment times
- Enormous reduction in production time
- Consistently high quality of the weld seams
- Quick amortisation of the investment
- Compensates for shortage of skilled workers
- Relieves welders during tiring repetitive work
- Excellent service with highly qualified contacts on site

www.lorch-cobot-welding.com



LORCH
smart welding