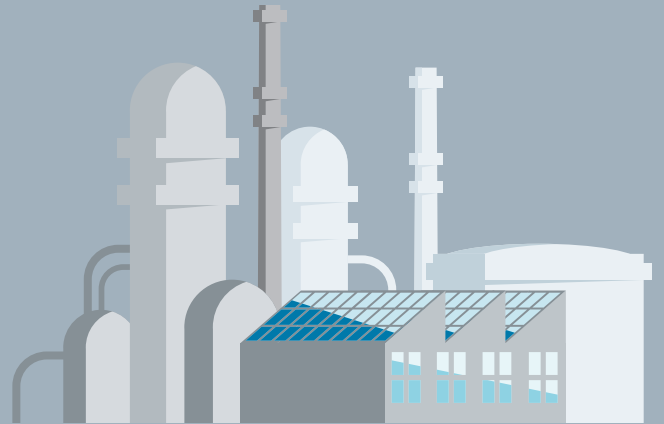


Welding stainless steel, cleanly, quickly and precisely



Stainless steel welding is a core expertise of Michelfelder Edelstahltechnik GmbH in Fluorn-Winzeln in the Black Forest. The company offers innovative solutions in stainless steel engineering, sheet metal machining, sealing technology, metal and laser technology and short tube production. Approximately 70 percent of all orders involve stainless steel products. The firm's clientèle includes well-known companies, such as Bizerba in the food industry, Zeiss in medical technology or Trumpf in the machine tool industry.

CHALLENGE

Stainless steel customers impose the most rigorous requirements on the quality of the weld seam. Weld seams are particularly critical for food technology or medical technology. For these applications are extremely demanding where hygiene is concerned, the components are often cleaned with aggressive cleaning agents. This means that the seams must be absolutely corrosion-resistant and in every case free of contaminants. Moreover, every gap, no matter how small, must be filled and the surfaces of the weld seams must be completely smooth and free of pores to prevent any and all microbial strains from settling in the recesses. Many fixtures produced by Michelfelder are also used in clean rooms, for example in optics and laser technology or in the area of aseptic production of food products or medications.

SMART SOLUTION FROM LORCH: T-PRO 250

An interval spot function that is factory-integrated in the inverter welding units pulses up to two kilohertz and reduces distortion of thin sheet metal elements in processing, through pinpoint and precisely adjusted energy transfer. The arc can be optimally controlled with the aid of Smart Base, the Lorch expert database. User-oriented operator guidance enables detailed control of the welding process via the arrangement of the illuminated symbols. The easy-to-handle ControlPro operating concept offers the possibility of deploying welders beyond various

language borders with no problems. Thanks to the Tiptronic job memory up to one hundred welding jobs can be stored and called up at any time. And via the Q-Data welding data documentation system, which can be connected via LorchNet, all welding data can be recorded just-in-time and documented for the welder's own verification and also for the client.



PLANT ENGINEERING

THIS IS THE CUSTOMER'S VERDICT:

"The welding capacities of the T-Pro have absolutely convinced us. Welding thin sheet metal elements in the area of 1.5 millimetres is a high art. It separates the wheat from the chaff. With the T-Pro we were able to completely meet the high welding requirements. The machines proved to be

extremely robust, easy to handle and completely fault-free even in continuous operation. They run and run and we get the top seams that we need for our demanding customers. Control elements and knobs can be quickly and conveniently adjusted even with welding gloves.

Overall the easy operating concept is a great advantage of the T-Pro. The changeover went off without a hitch in the company."

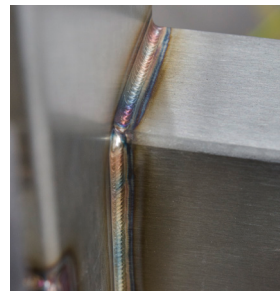
**Werner Huprich, managing director
and Simon Krause, master welder,
Michelfelder Edelstahltechnik GmbH**



Top quality: Many of the stainless steel fixtures produced by Michelfelder are unique items or are very small production runs. Used in medical technology, in clean rooms or in the food industry, the weld seams must meet the most rigorous quality requirements.



Energy input can be controlled with absolute precision via the Lorch T-Pro, which is extremely important when welding thin sheet metal elements. Thanks to the "3 steps and the weld" operating concept of the T-Pro 250 from Lorch the units are quickly and easily explained (right).



Weld seams at their finest: To ensure that corrosion or microbes haven't got a chance, the weld seams must have no recesses or pores whatsoever.



Would you like to learn more?
Michael Schaumann accompanied this project and
will be happy to receive your inquiry: michael.schaumann@lorch.eu.

LORCH
smart welding