

Tube machining and processing

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SEEBERGER'S core competence is the cutting, burr removal and machining of tubes and pipes in materials such as steel, stainless steel, aluminium, copper or brass. Since the company was founded in 1983, its priority has been to supply customers with client-specific products. This includes meeting individual product requirements relating to dimension as well as special finishing. The company is able to process diameters from 2 to 100mm.

The company constantly improves its equipment so that orders can be processed reliably and quickly. The main task is the machining of tubes, but it also regularly machines profiles and solid bars. Special-purpose machinery

for additional process steps and a batch sawing technique allow the company to offer solutions for many different applications.

For burr removal, Seeberger uses a grinding method that combines mechanical and chemical processes for optimum surface conditions. In strict compliance with the requirements of the specific field of use or the specifications of the final product, the company offers a wide range of processes for the further treatment of tube products, surface refinements and test procedures, such as widening, mitring, notching, bordering, perforating and burring.



The company has customers from a variety of industries, including automotive, building, furniture making and engineering.

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Welding power supply with touch operation and online process communication

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ORBITALUM'S new Orbimat 180 SW intelligent power supply for orbital welding allows digital networking, connecting the orbital welding process with information and communication technology for welding results, efficiency and quality management. The unbroken capture and backup of data on the customer's LAN provides the transparency required by Industry 4.0.

With built-in LAN and WLAN interface, the Orbimat 180 SW can be integrated into the customer's network, giving users, planning engineers and quality assurance employees with different user levels access to projects and data at all times, and making it possible to keep track of the entire welding process. All welding data and programs for each individual welding process can be called up and documented in full, analysed, used and optimised for future welding processes.

The Orbimat 180 SW is operated using the 12.4" colour touchscreen, or alternatively with the multifunctional control dial. The multilingual menu interface with graphic support makes operation and parametrisation of the welding power supply simple and intuitive. Soft keys provide direct access to important commands. The new Orbimat runs with an operating system

that reboots smoothly and without data loss, even after abrupt system shutdowns and power failures that can occur on construction sites.

Precise digital welding gas control makes it possible to perform welding processes with high levels of purity and a low gas requirement, reducing the cost for each process. The gas quantity values saved with the welding program make easily reproducible welding results.

An automatic rotor stop function provides improved safety. The Orbimat 180 SW also features motor torque control: if the welding head rotor is prevented from rotating by stiffness or an obstruction during automatic rotation, the power supply stops the rotor movement of the welding head immediately.

In order to minimise the gas pre-flow and post-flow times, Orbitalum has incorporated the Flow-Force function, which shortens the welding process when using closed welding heads. The digital gas control supplies safety gas at a very high volumetric flow rate directly from the pressure reducer to the welding head, and the unwanted residual oxygen is flushed out in the process.

The high volumetric flow rate in the post-flow time and the optional cooling circuit delay reduce the temperature of the welding head. Benefits include

a longer service life for the welding electrode. The optional permanent gas function prevents the penetration of oxygen in the welding head, even during secondary processing times. As a result, the Orbimat system achieves almost completely oxidation-free seams with simultaneously short processing times.

The Orbimat 180 SW operates with a wide input voltage range of 110 to 230 V AC 50/60 Hz, and offsets mains fluctuations of 90 to 260 V AC. Voltage peaks of up to 500 V AC are offset. At 180 A, the output welding current is suitable for most applications. The power supply automatically detects and includes the connected system components.

The integrated liquid cooling system keeps connected welding tongs and heads at the right temperature.

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