CLOOS at EuroBLECH 2022

Digitisation and connectivity in focus

HAIGER/HANNOVER– Intelligent solutions for faster, more economical and more flexible welding production – at the EuroBLECH exhibition, CLOOS will present innovative technologies from entry to premium level and from manual welding machines to chained robot systems. From 25 to 28 October, visitors to the CLOOS exhibition stand in hall 26, stand H52, can experience the wide range of products for manual and automated welding. The focus of the exhibition stand will be on the topics of connectivity and digitisation. "The increasing fusion of the physical and virtual worlds enables optimal control and continuous improvement of manual and automated welding production," says CLOOS Managing Director Stephan Pittner (CEO). "Therefore, we are constantly expanding our range of digital solutions."

Digital solutions for the factory of the future

With the C-Gate IoT platform, users can access information from their welding production in real time. All information is entered and processed centrally in an integrated information and communication tool. This allows users to monitor and control their production processes down to the smallest detail. It consists of several modules which users can activate depending on their individual digitalisation strategy – consistently from the manual welding power source to the fully automated production line.

Besides, the CLOOS RoboPlan software enables offline programming of automated robot welding systems. RoboPlan allows the generation of welding and travel paths as well as sensor routines at 3D models and their direct transfer into the robot controller. This increases the system utilisation, optimises the production process and makes welding more flexible.

Modular System for automated welding

"We want to close automation gaps and increase the efficiency of the manufacturing processes," Pittner emphasises. "Therefore, we offer solutions for automated welding." The QIROX system includes the robot technology, positioners, safety technology, software, sensors and the interface to the process technology. The modular design allows scalable solutions which can perfectly match different applications and the individual production requirements.

The portfolio comprises simple, compact standard systems as well as complex, chained systems with automated workpiece identification and loading and unloading processes.

Chained robot system with upstream and downstream processes

A highlight of the exhibition stand will be the automated high-tech production line that shows different welding processes as well as upstream and downstream production processes. "The demand for highly complex, chained manufacturing systems is continuously increasing and the degree of automation is increasing overall," explains Pittner. "More and more often, our customers want to integrate automated welding technology with handling and grinding applications in one production line."

Thus, CLOOS will also show automated grinding and polishing in the chained robot system at EuroBLECH. While CLOOS contributes its robot and system engineering know-how to the joint projects, FerRobotics contributes its technological expertise for the grinding applications with patented force/contact intelligence.

Cobot meets hightech welding power source

In addition, CLOOS will also present the new QINEO ArcBoT which offers an easy entry into the world of automated offers welding. With the QINEO ArcBoT, users can weld even small batch sizes economically and with consistently high quality. The high-tech MIG/MAG welding power source and the very precise Cobot complement each other perfectly.

The compact "Ready to weld" package is delivered completely ready for operation. This guarantees a problem-free integration into existing production processes. A torque sensor in each axis allows the Cobot to be programmed and moved precisely. The intuitive operation significantly increases work efficiency. The user can make individual adjustments on the user-friendly touch control panel with macros specially developed for welding. In addition to the relief of the employees – especially with monotonous, repetitive tasks – the users benefit from excellent welding results due to the consistent, reproducible quality. The integrated safety components ensure the necessary personal protection. As an option, the QINEO ArcBoT can be equipped with a torch-integrated welding fume extraction. In this case, an external extraction is not necessary.

QINEO welding power sources: from entry to premium

In the Welders' World on the CLOOS exhibition stand, trade visitors can experience the constantly growing product range of the QINEO welding machines live: The QINEO StarT allows an easy start into the world of modern MIG/MAG welding technology. Due to the excellent price-performance ratio, users can weld any workpiece at economic conditions. The high-tech QINEO NexT MIG/MAG welding power source convinces by excellent arc characteristics for highest welding quality. The modular design allows many utilisation possibilities – from the basic welding machine for manual welding to the multiprocess welding machine for automated robot welding. In addition, the new QINEO QuesT complements the portfolio for high-end TIG applications. This welding power source was specially developed for TIG welding processes and is particularly suitable for the most demanding welding connections and highest quality requirements.

The new QINEO welding power sources are characterised in particular by digital connectivity, maximum energy efficiency and the possibility of integrating new welding processes.

Innovative welding processes such as Fine Weld and MoTion Weld as well as new combination options of different processes in one weld seam ensure maximum quality and efficiency.

CLOOS at EuroBLECH 2022:
Visit us in hall 26, booth H52!

Photo 1: The C-Gate IoT Platform allows users to monitor and control their production processes down to the smallest detail.

Photo 2: The degree of automation will constantly increase in welding production as well as in upstream and downstream processes.

Photo 3: The QINEO ArcBoT relieves employees and ensures consistent, reproducible welding quality.

Photo 4: The QINEO QuesT was specially developed for TIG welding processes.

Weld your way.

CLOOS Welding technology:
Robot and welding technology from a single source

Since 1919, Carl Cloos Schweisstechnik GmbH has been one of the leading companies in welding technology. More than 900 employees all over the world realise production solutions in welding and robot technology for industries such as construction machinery, railway vehicles, automotive and agricultural industry. The modern CLOOS welding power sources of the QINEO series are available for a multitude of welding processes. With the QIROX robots, positioners and special purpose machines CLOOS develops and manufactures automated welding systems meeting the specific requirements of the customers. The special strength of CLOOS is the widely spread competence. Because – from the welding technology, robot mechanics and controller to positioners, software and sensors – CLOOS supplies everything from a single source. In addition, CLOOS is constantly expanding its range of digital solutions.

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