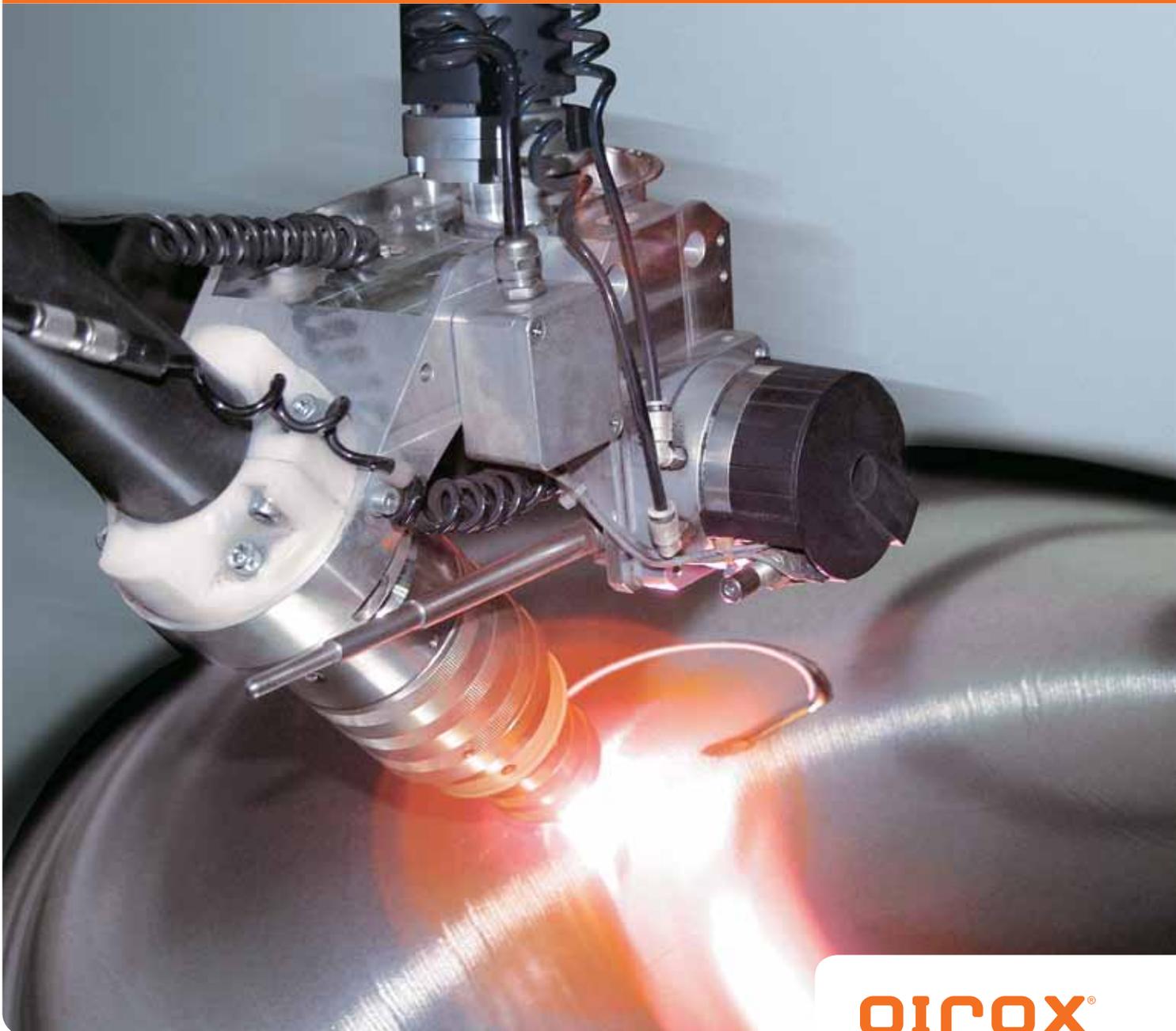


QIROX[®] Robot Plasma Cutting system

Efficient solutions for complex 3D contours



Hightech Plasma cutting of complex contours



CLOOS: Your brand for innovative welding technology!

Providing added value for our customers! This is the motivational force behind our 700 employees.

We are constantly raising our bar by pushing ourselves to provide innovative welding processes and solutions that will contribute to the long-term commercial success of your company.

Our process competence is at the forefront in welding and cutting of various ferrous and non-ferrous metals. We offer our customers individual solutions which are optimized and adapted specifically to your product and production requirements.

CLOOS develops, manufactures and delivers innovative solutions to more than 40 countries worldwide. With our **QINEO®**, the new generation of welding machines for manual and automated applications, and **QIROX®**, the system for automated welding and cutting, our product range covers the entire spectrum of arc welding technology. Our product portfolio includes intelligent software, sensor and safety technology solutions – all of which are customised to meet your specific needs and requirements!

Leadership and competence equals process automation and welding at its best.

Whatever your needs are, we “Weld your way.”

CLOOS provides full service solutions – all from a single source!

Benefits of choosing CLOOS

- Unique and customised process and product solutions:
 - Delivering you more commercial success!
- High level of industrial and engineering competence:
 - We know what matters to you!
- Professional advice and a high level of global service quality:
 - From start to finish, we are with you all the way!
- Superior quality and technological know-how:
 - “Made in Germany” can be relied on

We offer optimised solutions with maximum efficiency and a high degree of welding and cutting products that are customised to your application. And we have been doing this for over 90 years!

Cloos
Weld your way.



QIROX® The system solution for automated welding and cutting.

QIROX® is the new CLOOS product brand comprising all solutions for automated welding and cutting. Due to its modular design, the QIROX® system allows scalable solutions which can perfectly match your production requirements. The QI-ROX® system includes the robot technology, software, sensors, safety equipment, manipulators and the process technology. It is completed by an extensive range of options and complementary services. As a result of this comprehensive service from just one supplier, our customers can gain considerable economic and quality benefits.

4 hours instead of 2 days

With just one unique Plasma cutting system the AMS stainless steel processing company has been able to improve the efficiency of their production: Instead of two days of manual work it only takes the CLOOS QIROX® robot system a maximum of 4 hours including programming and simulation to cut all the holes and contours in the thick container bottoms. Efficiency in numbers: thanks to the new plasma cutting system AMS has been able to reduce the cycle time by 70 % and production costs by 20 %.



Efficient

- Cutting of nearly any 2D and 3D contours with a six-axes QIROX® welding robot
- High accuracy due to solid steel construction
- Fully-automatic cuts from 2 to 50 mm material thickness
- Chamfer cuts up to 45° are possible
- Measurement by QIROX® sensor



Economic

- Reduction of the run-through time up to 70%
- Reduction of the production costs up to 20%
- High cutting speed and short production time
- No marking required
- Rapid change of workpiece due to a mobile cutting table
- Reduction of the total production time due to high cutting quality



Flexible

- Offline programming of the robot system during production, therefore no machine downtime
- Cutting of bottoms, plates, complete containers and mounting parts
- Simulation for collision detection and cycle time determination
- Depending on the workpiece size the cutting tables can be used alternately or simultaneously
- Changing table can be connected with individual extraction control



Technical Highlights

The cut sheet casings can be easily processed due to the very low production tolerances. In addition a "Marking Mode" has been integrated in the control so that the plasma beam can mark the stainless steel surface for the positioning of the mounting parts. The cutting tables can be connected and include an extraction system where the flaps only open where the torch is working. CLOOS have developed a special algorithm which converts the robot data to the current torch position data.



High-quality stainless steel containers

AMS Technology GmbH, who are located in Limbach-Oberföhna bei Chemnitz, supply pressure vessels, storage tanks and stainless steel heat exchangers. They design and produce complex stainless steel welding assemblies, stirring machines and specialist equipment for all industry sectors. Particularly in high-demanding industries such as the chemical and pharmaceutical industry where the highest quality requirements apply, AMS Technology sets the standard with high-quality stainless steel containers for the production of cosmetics, medicine and food.



Service

Active worldwide

There are more than 40 sales and service centres in our worldwide CLOOS organisation, which are at your disposal for sales and service. In addition, our experienced service team in Haiger can be called at any time for any problems. In this way we can ensure effective help on site if breakdowns occur.



Service intervals

When indicating the service intervals, we as system supplier do not only look at the welding robot but at the whole system incl. process technology and positioner. A 5000 hours service interval is the result and ensures a long service life and a high availability.

Long service life guaranteed

With maintenance and inspection at regular intervals the technical availability of a CLOOS system is nearly 100 %. But if faults do occur, we can minimise downtime by means of a quick repair. This is ensured by well-equipped spare parts stores and a computer-controlled logistic system.

Always at your service

Our Service Hotline is free of charge and in the case of emergencies is always available for you. Even in the case of products which have been in use for more than 20 years, we have the expertise to answer all your questions.

Service Hotline

☎ +49 (0) 27 73 85-132

Additional information regarding QIROX® the system for automatic welding and cutting can be obtained at www.qirox.de



QIROX®

Information about QINEO®, the system for automated welding and cutting, can be found at www.qineo.de



QINEO®



Weld your way.

If you intend to rationalise your production, please contact us. Our customised QIROX® welding robot systems increase your efficiency and productivity in no time at all.

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