

## QIROX Laser Cell

# Laser welding and cutting with highest precision

HAIGER, October 2015 – Precise, quick and reliable: The use of laser beams in the welding and cutting technology offers many advantages. CLOOS presents the QIROX Laser Cell, a new product line of compact cells for automated laser cutting and welding.

The demands on productivity, repeatability and quality are continuously increasing in industrial production. This has to be met by the welding and cutting technology, too. Modern welding technologies allow increasing the quality, productivity and efficiency of the complete production process. The importance of laser welding and cutting in particular will grow in future. The main reasons for this are the high efficiency and accuracy of the laser beam. Laser welding and cutting often allows a much higher process speed with at the same time a better quality than with conventional processes. The exact work with a precise heat input minimises the heat affection and thus the thermal distortion. This reduces any time-consuming rework to a minimum.

With the QIROX Laser Cell CLOOS developed an extensive range of laser cells for maximum efficiency and quality. Each laser cell system is a tailor-made unit with components which match each other perfectly. They do not require much space and can be easily integrated into any production. The turnkey systems consist of a laser welding head, safety equipment, operating terminal, positioner, QIROX robot, flat screen with HD camera for visualisation and a pre-assembled media room.

The laser cells are equipped with a high-tech diode laser offering a maximum electrical efficiency. Other features of this laser type are the high availability, low maintenance expenditure, easy operation and an excellent process stability.

The 2-station systems are available with different types of positioners for different workpieces and can be loaded from outside. At one end employees can remove the welded workpieces, check the quality of the welding and reload the system while the welding process takes place at the other end. This results in an enormous saving on time for the whole process.

## **CLOOS Welding technology:**

### **Robot and welding technology from a single source**

Since 1919, Carl Cloos Schweisstechnik GmbH is one of the leading companies in welding technology. About 750 employees all over the world - 500 in the parent company in Haiger – realise production solutions in welding and robot technology for industries such as construction machinery, railway vehicles, automotive and agricultural industry. The 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.

### **Press contact:**

Carl Cloos Schweisstechnik GmbH  
Industriestrasse 22-36  
35708 Haiger  
GERMANY

Stefanie Nüchtern-Baumhoff  
Tel. +49 (0)2773 85-478  
E-mail: [stefanie.nuechtern@cloos.de](mailto:stefanie.nuechtern@cloos.de)