5th RoboPlan Symposium at CLOOS

**New functions simplify offline programming**

HAIGER – At 05 December 2019, Carl Cloos Schweisstechnik GmbH invited their customers to the 5th RoboPlan symposium. About 40 visitors exchanged news about the use of RoboPlan software in welding technology. A varied program with lectures, live demonstrations and many opportunities for individual questions and exchange of experience awaited the participants. A highlight of the symposium was the presentation of the new optional RoboPlan functions, which greatly simplify offline programming and increase the efficiency of welding production many times over.

After the official welcome by Christian Paul, Head of Application and Process Engineering Development at CLOOS, Sven Müller presented the new RoboPlan version V7.03. In the course of the morning, further exciting contributions on the new pick modes in RoboPlan, the various service packages for maintenance contract customers and numerous practical examples followed. After the lunch together, the participants received a comprehensive insight into the new optional functions of RoboPlan during live demonstrations and were able to extensively test them with practical examples.

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. The new optional functions simplify offline programming considerably.

The function "Automatic path optimisation" enables RoboPlan to recognise the component geometry. As soon as a collision of component and welding torch is determined, the torch orientation is automatically adapted according to editable rules. Thus, RoboPlan can resolve collision-afflicted situations in the weld paths.

The function "RoboPlan-CAD Interface“ enables the automatic generation of welding paths on the basis of weld information stored in a CAD system. An extension (AddIn) for the CAD system extracts weld information such as geometric positions and weld thicknesses and makes it available for RoboPlan via interface. From this information, RoboPlan directly generates weld paths.

The "Welds from CAD" function automatically detects geometric bodies (prisms and sheet bodies) in the CAD data which serve to mark the weld courses. The welds planned by the user are thus produced at the correct position and directly converted into welding paths.

More information about RoboPlan: <https://www.cloos.de/de-en/cloos-tv/cloos-offline-programming-with-roboplan/>

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**Photo 1:** At the RoboPlan Symposium, the users were informed about the new software functions.

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**Photo 2:** A new program can be created in RoboPlan while production is running in the system.

**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. More than 800 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.

**Press contact:**

Carl Cloos Schweisstechnik GmbH  
Carl-Cloos-Strasse 1   
35708 Haiger

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