

New module for CLOOS digitisation platform: C-Gate.PG

Central program management of robot systems

Haiger, December 2021 – Carl Cloos Schweisstechnik GmbH presents a new module for the C-Gate IoT Platform: The C-Gate.PG program management module provides robot programs at a central location for robots and applications. This allows users to easily reload, save and organise programs for their CLOOS robot systems via network.

With C-Gate.PG, robot programs can be used centrally in the network for all CLOOS systems. They do not have to be stored on a robot, but can be reloaded as needed. An updated robot program can also be saved on C-Gate.

Integration with Carola EDI and RoboPlan

The programs are available in file format via a WebDAV interface. This can be integrated as a network drive under Windows or used to back up programs. The file structure is compatible with Carola EDI and RoboPlan thus allowing easy integration of the applications with C-Gate. A connection between C-Gate and the CLOOS program editor Carola EDI allows parallel development of robot programs from several PCs in the network.

Traceability of all program changes

In the future, C-Gate.PG will offer the possibility to search and restore older versions of programs. This functionality makes it possible to trace program changes and their influence on the production. Furthermore, an automatic synchronisation between the robot and C-Gate is planned as well as an extended organisation of programs.

Monitoring and control of production processes

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 digitisation strategy.

C-Gates IoT Hub and Connector

The individual modules are provided as software on a central C-Gate IoT Hub. This ensures secure and reliable communication between the user's IT infrastructure and the connected systems and machines. Users can optionally use the new C-Gate IoT Connector. This is an edge gateway that is installed in

robot systems or welding machines as a data/application buffer and firewall. The C-Gate IoT Connector enables the offline provision of IoT hub data as well as the secure transmission and buffering of device data. Another advantage is the separation of the machine network and other networks.

Further innovations of the C-Gate IoT Platform

The C-Gate IoT Platform can now also be used with the new QINEO Quest TIG welding power source.

In the dashboard, widgets can now be set with a user-defined time window. In the case of a component count, it is now possible to display this on the basis of production steps. In addition, devices can be grouped with tags for the display of statistics.

In addition to German, English Chinese, Polish and Portuguese, the C-Gate IoT Platform is now also available in Italian, Russian and Spanish.

More information: <https://c-gate.cloos.de/>



Photo 1: The new module C-Gate.PG offers a central program management of CLOOS robot systems

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 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.

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