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Dynamic workpiece handling with Sinumerik Integrate Run MyRobot

- Integrated operation, programming, and diagnostics of KUKA robots via the Sinumerik Operate user interface from Siemens

Automation of machine tools will immediately become more flexible: with Sinumerik Integrate Run MyRobot, Siemens Drive Technologies Division and KUKA Roboter GmbH presented a solution for integrated operation, programming, and diagnostics of a KUKA robot in Sinumerik at EMO 2013. For example, in conjunction with the new “Run myRobot” technology, the CNC control Sinumerik 840D sl package can optimally enable KUKA robots to perform handling tasks on machine tools, in particular, loading and unloading of machining cells. Interaction, such as operation, tool retraction, teach-in, and diagnostics of robots, can be performed through just one operator panel with the Sinumerik 840D sl, thus increasing the efficiency and flexibility of the machine tools. Customer can order this technology package with immediate effect from Siemens.

As part of the dynamic automation solution, functions for handling are one hundred percent available at the Sinumerik Operate user interface. The execution of the machine tool and robot program can be tracked and controlled on screen on parallel channels. This gives the operator a quick overview of the current status of the machine tool and robot. The Sinumerik hand-held terminal HT8 and the user...
interface can be used to "teach" not only machine tool-related setup actions but, as part of the same operating philosophy, also the path points and functions of the robot.

Execution of the robot movements, provision of robot safety functions, and other robot-specific functions are still performed by the KUKA robot control KR C4. The Sinumerik 840D sl is connected to the KUKA control via a command interface.

With the mxAutomation function block library from KUKA, the motion sequence of the robot can be programmed completely in the Sinumerik control 840D sl. In this way, the robot program can be created completely without any knowledge of Step 7, the Siemens tool for PLC programming.

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This press release and a press picture is available at http://www.siemens.com/press/emo2013
The Siemens Drive Technologies Division (Nuremberg, Germany) is the world's leading supplier of products, systems, applications, solutions and services for the entire drive train, with electrical and mechanical components (Integrated Drive Systems). Drive Technologies serves all vertical markets in the production and process industries as well as the infrastructure/energy segment. With its products and solutions, the Division fulfills the key requirements of its customers for productivity, energy efficiency, and reliability. For more information, visit http://www.siemens.com/drivetechnologies

The KUKA Roboter GmbH, with its headquarters in Augsburg, is a member of the KUKA Aktiengesellschaft and ranks among the world’s leading suppliers of industrial robots. Core competencies are development, production and sale of industrial robots, controllers and software. The company is the market leader in Germany and Europe and the number three in the world. KUKA Roboter GmbH employs about 3180 people worldwide. In 2012, sales totaled 742.6 million Euro. 25 subsidiaries provide a presence in the major markets of Europe, America and Asia.