Press Release
October 28, 2010

Easy integration of robots or peripheral equipment, QA or quality planning systems

NC5 control by Sumitomo (SHI) Demag to facilitate automation of injection moulding

With the expansion of its NC5 control into an integrative control centre, Sumitomo (SHI) Demag Plastics Machinery GmbH of Schwaig/Germany provides users of its injection moulding machines with enhanced flexibility in terms of the control and integration of peripheral equipment of any kind. At the K 2010, visitors will experience first-hand the expanded range of integrated robots for the automation of moulded part handling and solutions for quality assurance in injection moulding as well as the integration of the machine in master computer systems. Thereby, Sumitomo (SHI) Demag emphasizes its openness to cooperation based on partnership with the technology or system partners of its customers.

Use of the NC5 control as a host with many interfaces for the integration of functionalities or the most varied partner systems will provide the customers of Sumitomo (SHI) Demag with highest levels of flexibility. Thus, robots for moulded parts handling, product planning systems (PPS) or process control engineering systems, peripheral equipment items or systems for process control and quality assurance can be easily integrated.

The control interfaces of many peripheral units or partner systems are integrated in the NC5 control of the injection moulding machines via Virtual Network Computing (VNC) where they can be operated just like the control itself. Respective solutions have recently been developed in a joint effort with Wittmann Kunststoffgeräte, Sepro Robotique, Wemo, T.I.G. Technische Informationssysteme, ONI Wärmetrafo or Priamus System Technologies. The preparation of other systems together with partner businesses is on the drawing board.

At the K 2010: integration into a PPS system

The acquisition, processing and visualization of production or process data facilitate comprehensive control in each phase of production. Disturbances in the production

sequence will be detected immediately, and can be remedied or corrected even before rejects will be produced. Here, the machines on display at the stand of Sumitomo (SHI) Demag will be connected to the system of T.I.G. Technische Informationssysteme GmbH.

At the K 2010: integrated robot factory-automated injection moulding machines

The new series of integrated SDR robots covering six models has all the mechanical, electrical and pneumatic interfaces required for integration into the Systec and IntElect injection moulding machines made by Sumitomo (SHI) Demag. The mechanical and actuator systems of the SDR 11 through SDR 66 robot series are based on the robot series made by the French manufacturer Sepro Robotique. The control used for these SDR robots is "Visual 2", which is integrated in the NC5 control and can be fully operated by the latter. Such integration will facilitate the operability and increase the efficiency of the overall system accordingly.

The SDR handling devices complete the known product range of Sumitomo (SHI) Demag in terms of three-axis robots. The systems offered also include the DR7 and DR8 series developed in a joint effort with the Austrian Wittmann Kunststoffgeräte GmbH. Thus, Sumitomo (SHI) Demag offers its customers and system partners a large variety of products in terms of factory automated injection moulding systems.

In addition to the DR and SDR robots, also robots from other manufacturers can be integrated in the NC5 control. Thus, users will enjoy large flexibility even for complex automation jobs.

At the K 2010, an IntElect 450 will be on display with an integrated SDR33 robot at the stand of Sumitomo (SHI) Demag, and a Systec 160 will be on display with an integrated SDR33 robot at the stand of Sepro Robotique. An IntElect 100 on display at the stand of Yushin Precision Equipment will demonstrate the integration of a Yushin robot, and a Systec multi 210 on display at the stand of Sumitomo (SHI) Demag will show the communication with a six-axis robot made by Kuka.

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<door_stop_Systec_130_Ceracon>

A door stop made of PP will be produced in the S-FIT process in a complex machining cell on an injection moulding machine Systec 130-600 at the exhibition stand of CeraCon GmbH, and will be provided with a sealing lip made of a single-component PUR foam.
Photograph: Sumitomo (SHI) Demag

<light_conductor_Systec_160_Sepro>

Light-conducting element made of PMMA, produced on a hydraulic injection moulding machine Systec 160-600 by means of the IMD method at the exhibition stand of Sepro Robotique, unloaded from the mould made by HBW-Gubesch by means of an integrated Demag Robot SDR 33.
Photograph: Sumitomo (SHI) Demag

<Systec-160_SDR-Robot>

The integrated three-axis SDR robots are fully integrated in the NC5 control of the injection moulding machines made by Sumitomo (SHI) Demag and offer the customers of this producer of machinery a large product variety for factory-set automated injection moulding systems.
Photograph: Sumitomo (SHI) Demag

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