

More efficient engineering with open system solution IndraMotion for Packaging by Rexroth with new functions

10/29/2012

For Immediate Use



The system solution IndraMotion for Packaging helps to reduce the amount of engineering.

Rexroth's fully open system solution IndraMotion for Packaging is now available in the new software version 12 and comes with a series of additional functions allowing users to comfortably program robotics applications with the PLC in accordance with IEC 61131-3. Multi-Ethernet interfaces on controls and drives - including on the further developed motor-integrated IndraDrive Mi drives - reduce the costs for OEM having to adapt their solutions to end user requirements.

With this automation solution, Rexroth aims for a consistent programming concept. With the latest software version, which incorporates the CoDeSys V3 run-time system and comprehensive PLCopen function libraries, users can implement all PLC and motion programming tasks, including individual drives, synchronized movements and robotics, in the IEC 61131-3 programming languages. This allows for a much more efficient division of work and reduces the amount of engineering involved in made-to-order constructions. Furthermore, IndraMotion for Packaging contains numerous technology functions that are typical in the packaging industry, such as print mark control, product grouping, magic belt or intermittent duty cycle.

In addition, the Drive & Control Specialist provides a function - the patented FlexProfile - with which machine manufacturers are able to fulfill customers'

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requests for higher flexibility and product or format changeovers at the press of a button. FlexProfile simplifies handling electronic cams because, among other things, the software automatically adapts all drive movements to the changed parameters. In order to accomplish this, programmers use the engineering tool CamBuilder from the IndraWorks environment to generate synchronous movements graphically. From there, CamBuilder then automatically generates the program code, replacing the previously timeconsuming and error-prone step of manual programming.

With the motor-integrated IndraDrive Mi servo drives, Rexroth increases the degree by which decentralized automation concepts can be modularized. Using a Multi-Ethernet interface, the servo drives can be comfortably integrated into a variety of Ethernet-based field buses, including SERCOS III, PROFINET IO (RT), EtherNet/IP and EtherCAT. This enables OEM to implement different automation structures with one single type of hardware, thereby simplifying logistics and spare parts management. In addition, pneumatic components and hydraulic actuators can be connected to the IndraDrive Mi via SERCOS III at a reduced cost.

The drive-integrated safety function of the IndraDrive Mi eliminates hardware and reduces the need for wiring. The STO safety function ("Safe Torque Off") ensures the safety of the respective axes without requiring an additional control. This facilitates the modular design of machines. When the STO function is activated, the drive will interrupt the current to the connected motor within mere milliseconds. Likewise, it prevents the motor from being restarted accidentally. The STO function in the IndraDrive Mi servo drives is certified Cat 4 PL e according to EN ISO 13849-1 and SIL 3 according to EN 62061.

Bosch Rexroth AG is one of the world's leading specialists in the field of drive and control technologies. Under the Rexroth brand name, the company supplies more than 500,000 customers with tailored solutions for driving, controlling, and moving. Bosch Rexroth is a partner for Mobile Applications, Machinery Applications and Engineering, Factory Automation and Renewable Energies. The company provides customized solutions tailored to the needs and specifications of each individual market. As The Drive & Control Company, Bosch Rexroth develops, produces, and sells components and systems in over 80 countries. As part of the Bosch Group, Bosch Rexroth and its 38,400 associates generated approximately 6.4 billion euros in revenue in 2011.

To learn more, please visit www.boschrexroth-us.com

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