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A motion control system that has it all covered - from the simple to the highly complex

Using a scalable approach, motion control system MLC can control between 2 and 192 synchronous axes

With its motion control solutions, Bosch Rexroth is breaking the mold when it comes to automation. The new embedded control XM42 tops the motion kit off perfectly. The motion control system MLC can now control up to 192 synchronized axes. As such, with the same engineering and software core, it covers the entire range from cost-effective entry-level solutions for straightforward handling applications right through to complex solutions involving robotics and hydraulics. The system software includes numerous pre-defined technology functions that only need to be parameterized.

In the case of simple applications and coordinated hardware, the wizard-supported Generic Application Template (GAT) speeds up commissioning. As a result, users can create synchronized axis motions within a matter of minutes which GAT automatically converts into PLC code. For more complex applications, numerous pre-defined functions, such as winding and register control, belt synchronization and various different robotic kinematics simplify fast engineering.
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With the new, extremely high-performance hardware variant XM42, users decide, simply by selecting the corresponding software package, whether they want to synchronize up to 64, 128 or 192 axes. The embedded control XM42 is based on the latest cutting-edge dual core chip technology and is therefore a high-performance controller. This reduces complexity in new and existing concepts as machine manufacturers can now bundle tasks, previously allocated to several controllers, centrally at one point. In addition to considerably less wiring work, reducing the number of controllers down to one also streamlines machine software and commissioning. With OPC UA, all MLC solutions can now be integrated into connected environments and the Internet of Things.

As one of the world’s leading suppliers of drive and control technologies, Bosch Rexroth ensures efficient, powerful and safe movement in machines and systems of any size. The company bundles global application experience in the market segments of Mobile Applications, Machinery Applications and Engineering, and Factory Automation. With its intelligent components, customized system solutions and services, Bosch Rexroth is creating the necessary environment for fully connected applications. Bosch Rexroth offers its customers hydraulics, electric drive and control technology, gear technology and linear motion and assembly technology, including software and interfaces to the Internet of Things. With locations in over 80 countries, more than 30,500 associates generated sales revenue of 5.5 billion euros in 2017.
To learn more, please visit www.boschrexroth.com

The Bosch Group is a leading global supplier of technology and services. It employs roughly 402,000 associates worldwide (as of December 31, 2017). The company generated sales of 78.1 billion euros in 2017. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT company, Bosch offers innovative solutions for smart homes, smart cities, connected mobility, and connected manufacturing. It uses its expertise in sensor technology, software, and services, as well as its own IoT cloud, to offer its customers connected, cross-domain solutions from a single source. The Bosch Group’s strategic objective is to deliver innovations for a connected life. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is “Invented for life.” The Bosch Group comprises Robert Bosch GmbH and its roughly 440 subsidiary and regional companies in 60 countries. Including sales and service partners, Bosch’s global manufacturing, engineering, and sales network covers nearly every country in
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