PRESS RELEASE

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For Immediate Use

Bosch Rexroth performs handling tasks mechatronically — the quick and easy way

New Smart Function Kit for Handling drastically reduces the engineering outlay and allows commissioning with just a few clicks

- Cost-effective multi-axis solution from a single source
- Quick commissioning thanks to automatic parametrization of the servo drive
- Fast integration and value creation

Image 1: With the modular Smart Function Kit for Handling, Bosch Rexroth offers users a mechatronic subsystem for handling tasks that can be used immediately. (Image source: Bosch Rexroth AG)

An intelligent multi-axis system — quicker, more convenient and more cost-effective than ever before: Bosch Rexroth now makes this possible with the new Smart Function Kit for Handling. Following the introduction of Rexroth's Smart Function Kit for Pressing and Joining, the linear motion technology experts are expanding the company's Smart MechatroniX solution platform with a second plug-and-produce subsystem that can be operated intuitively. With the new mechatronic kit, users can save a great amount of time when engineering multi-axis systems — for a quick return on investment with fully digitalized handling solutions.

The new Smart Function Kit for Handling can be used in a variety of areas, such as production handling, machine assembly and packaging. Pick-and-place tasks can

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also be performed quickly and cost-effectively, as a Cartesian multi-axis system for packages of different sizes, weights and formats.

Plug-and-produce approach saves considerable amounts of time

The clever new subsystems for multi-axis applications offer noticeable advantages over conventional solutions. Significant amounts of time can be saved and costs can be reduced — from the dimensioning and final configuration, to the operating phase. The plug-and-produce approach also speeds up the commissioning process considerably.

Clever multi-axis solution from a single source

The Smart Function Kit for Handling can be selected and sized easily and intuitively via the Rexroth LinSelect linear motion software.

With just a few clicks and minimal engineering work, users can determine exactly which system is suitable for their needs. The data from LinSelect can be carried over to the configurator for complete system design. Orders can also be placed directly via the Rexroth e-shop. This complete range of tools not only saves time, but it also reduces potential sources of errors.

In addition to the preassembled multi-axis system, which includes a motor, cable and all attached parts, a suitable Rexroth ctrlX servo drive and controller is included in the package. Engineering and runtime apps are also preinstalled.

Quick commissioning thanks to automatic drive parametrization

The preinstalled software saves time and labor when commissioning and integrating the subsystem. The entire system is automatically parametrized. Intuitive, graphical operation via a web-based HMI also reduces installation times. Ready-made function blocks make it easy to program the process. As a result, there is no need for expensive external programming work.

Open interfaces allow the system to be connected to various controllers and thus perform bigger, integrated handling tasks. The software can be expanded via apps and has IIoT data interfaces via OPC-UA, a REST-API ResT programming interface and a firewall-compatible security architecture.

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Image 2: Everything in one package: a preassembled multi-axis system, including a motor, cable and all attached parts, as well as a suitable Rexroth ctrlX servo drive with a controller. (Image source: Bosch Rexroth AG)

Image 3: The preinstalled software can be used on various end devices and can be operated immediately with no need for programming knowledge. (Image source: Bosch Rexroth AG)

About Bosch Rexroth:

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 29,600 associates generated sales revenue of around 5.2 billion euros ($6.3 billion) in 2020.

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

About Bosch:

Having established a regional presence in 1906 in North America, the Bosch Group employs

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34,700 associates in more than 100 locations, as of December 31, 2020. According to preliminary figures, Bosch generated consolidated sales of $13.1 billion in the U.S., Canada and Mexico. For more information, visit www.bosch.us, www.bosch.ca and www.bosch.mx.

The Bosch Group is a leading global supplier of technology and services. It employs roughly 394,500 associates worldwide (as of December 31, 2020). According to preliminary figures, the company generated sales of $87.1 billion in 2020. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT provider, Bosch offers innovative solutions for smart homes, Industry 4.0, and connected mobility. Bosch is pursuing a vision of mobility that is sustainable, safe, and exciting. 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 facilitate connected living with products and solutions that either contain artificial intelligence (AI) or have been developed or manufactured with its help. 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 the world. The basis for the company's future growth is its innovative strength. At 126 locations across the globe, Bosch employs some 73,000 associates in research and development, as well as roughly 30,000 software engineers.

Additional information is available online at www.bosch.us, www.iot.bosch.com, https://us.bosch-press.com/, https://twitter.com/BoschPress

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