

PRESS RELEASE

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Systematic: function-integrated profiles from Rexroth with internal cable guide

The innovative cable guide profiles feature unique profile junctions. As part of the system kit of basic mechanic elements, they provide designers with numerous advantages.

- ▶ New profile junctions enable continuous internal cabling
- ▶ High degree of design flexibility, due to an extensive range of accessories
- ▶ Combinable and expandable modular system



The FIP range enables an unprecedented level of flexibility for designing machine frames.

When machine frames are designed, cabling is often an afterthought. The profiles are usually retrofitted with cable ducts, subsequently altering the design and increasing the assembly and installation work involved. Thanks to innovative profile junctions, Bosch Rexroth's new function-integrated profiles (FIPs) feature a fully internal cable guide that can run through and out of profile junctions. The FIP range comprises four profile cross-sections for market launch, with a catalog of accessories that also complements the modular system. The entire solution can be combined with the established Rexroth modular profile

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system, and together they provide an unprecedented level of design flexibility.

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The function-integrated profiles feature an innovative concept that enables robust frame designs with a fully internal cable guide already integrated into the profiles. The connection elements are the real standout features: unique profile junctions continue the internal cable guide of the corner and longitudinal profiles, ensuring continuous internal cabling. The internal cabling runs through and out of the profile junctions and can be removed from the frame at any point along the route. This removes the cable duct installation that would otherwise be required, as the cable ducts are built into the framing. Subsequent changes to the frame construction are no longer needed, saving time and money, including the potential for major savings in terms of the use of parts.

The FIP range is based on a 40-mm grid standard, meaning it can be combined and expanded with all basic mechanic element profiles from the profile raster. An extensive catalog of accessories, including end covers, separators, cover caps, edge protectors and base plates, provides production planners and frame designers with additional benefits.

Another premier feature of the FIP system is its grooveless exterior, which, thanks to a hinged smooth cover, ensures that the profiles have a standardized finish. This provides a clean look throughout the entire construction. Customers can choose between plastic parts in signal gray or black finishes. The gray finish creates less of a contrast with the frame construction, whereas the black version is suitable for ESD protected areas.

For more information, visit

<https://www.boschrexroth.com/en/us/products/product-groups/assembly-technology/topics/aluminum-profiles-solutions-components/function-integrated-profiles/>.

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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 and Industrial Applications as well as Factory Automation. With its intelligent components, customized system solutions, engineering and services, Bosch Rexroth is creating the necessary environment for fully connected applications. Bosch Rexroth offers its customers hydraulics, electric drive and

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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 32,000 associates generated sales revenue of around 7.0 billion euros in 2022.

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To learn more, please visit www.boschrexroth.com

The Bosch Group is a leading global supplier of technology and services. It employs roughly 421,000 associates worldwide (as of December 31, 2022). The company generated sales of 88.2 billion euros in 2022. Its operations are divided into four business sectors: Mobility, 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 470 subsidiary and regional companies in over 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 136 locations across the globe, Bosch employs some 85,500 associates in research and development, of which nearly 44,000 are software engineers.

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

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