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The quicker way to a stable shopfloor solution

Manuela Kessler | 10.10.2023 | Lohr am Main / Germany | PI 059/23

The further developed EcoShape tubular framing system saves time when planning and setting up a range of shopfloor applications

- Low Cost Automation: Quick set-up thanks to tubular connector system
- Greater stability thanks to improved components
- Quicker planning: Digital engineering with model templates



Whether it be a material shuttle, flow rack and transport systems or workstations: The EcoShape tubular framing system is beneficial wherever materials flow and are assembled. (Image source: Bosch Rexroth AG)

With the further developed EcoShape tubular framing system from Bosch Rexroth, users can plan and set up shopfloor solutions even more quickly. Even applications with high dynamic loads can be achieved at low cost with just a few components. The free MTpro planning software speeds up engineering with quickly adaptable models. Thanks to compatibility with many other Rexroth components, EcoShape applications can be expanded and rebuilt flexibly.

Poka-yoke, Kaizen and Lean Design: Based on these pioneering principles for continuous improvement and standardization, the innovative EcoShape has always offered budget-conscious users a simple and quick alternative for building flow racks, material shuttles and workstations. The proven aluminum tubular framing system is now even more stable, flexible and cost-effective – yet has the same look and feel and remains fully compatible with the existing components from the aluminum profile kit. New additional components expand the application possibilities. EcoShape is thus ideal for use in all sectors where materials flow or are assembled. ESD conductivity throughout allows EcoShape to be used in the electronics industry too.

Easier set-up thanks to new components

Following the current trend towards Low Cost Automation (LCA), the further developed EcoShape meets the high demand for space and cost-saving shopfloor solutions that can be moved and rebuilt quickly. Additional connection elements with internal clamping improve the frictional connection and allow more usable space, thus benefiting supermarket shelves or material shuttles.

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More stable and cheaper

The stability of the tubular framing system has been significantly improved. In addition to improved settlement behavior, the dynamic load capacity was increased ten-fold. Regularly retightening the connections is no longer necessary, while the foundations are demonstrably more stable thanks to the new connector types. Many applications can also be implemented more cheaply without additional connection elements.

Digital engineering using ready-made models

The free MTpro planning software allows EcoShape applications to be implemented much more quickly. The engineering tool is available in software form for installation or in a web-based online version. It includes numerous model templates for typical applications that can be easily scaled, customized and completed. The applications range from material shuttles and flow or transport racks to workstations and complete assembly islands. This means that a wide range of applications can be implemented or modified in even less time, offering employees maximum convenience, ergonomics and support when carrying out routine tasks.

Basic Information 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 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 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.

Basic Information Bosch

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. With its more than 400 locations worldwide, the Bosch Group has been carbon neutral since the first quarter of 2020. The basis for the company's future growth is

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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.

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