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Safety fences: Quicker, slimmer and more stable

Manuela Kessler | 25.06.2024 | Lohr am Main / Germany | PI 018/24

Expanded EcoSafe range from Bosch Rexroth sets new standards for modular safety fences and enclosures

- Quick assembly with prefabricated safety panels
- Safety fences can be assembled, modernized and extended flexibly and at low cost
- Optimum equipment safety thanks to higher load bearing capacity



With the EcoSafe material for guards designs from Bosch Rexroth, safety fences can be put in place more quickly and flexibly and at lower cost (Image source: Bosch Rexroth AG)

Bosch Rexroth has revised the EcoSafe range of modular components for protective fences and enclosures, thus optimizing cost-effectiveness, flexibility and equipment safety. Complementary frame profiles, quick-to-assemble direct panels and connectors reduce the assembly work involved so that new installations, conversion projects and extensions can be carried out more quickly. The free MTpro planning software speeds up planning with numerous design aids, automatically generated parts lists and the option of direct ordering from the Rexroth online shop.

Variable production requires standard-compliant safety devices in the production environment that can be put in place and altered quickly, cost-effectively and flexibly. The expanded EcoSafe range from Bosch Rexroth takes into account these complex requirements and is compatible not only with the previous range but also with the Rexroth modular aluminum profile system. A slim yet stable aluminum frame profile with the dimensions 22.5 x 45 mm serves as the new basic component.

Quick installation with prefabricated direct panels

With the new frame profile, assembly teams can make quick progress, especially when putting up linear safety fences. The EcoSafe range includes not only suspended panels but also “direct panels” which allow quick assembly. They are available pre-assembled from stock and can be erected very quickly. Two neighboring direct panels are connected at the bottom via the

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new universal foot and at the top via a robust fixing cap and secured with just a few screws in accordance with the relevant standards.

The new universal foot can accommodate two safety frame profiles (22.5 x 45 mm) or a standard profile (45 x 45 mm) and is fixed to the floor using two anchor bolts with no need for drilling, once again in accordance with the standards. This reduces the time taken by around 60 percent. For non-linear arrangements, the base offers a type of hinge function in order to set the angle between the protective grilles.

Leading equipment safety

Bosch Rexroth has also optimized stability and equipment safety. All protective grilles have welded wires and are fixed in the frame profile with the help of a toothed groove. As a result, the grilles can absorb much more energy than the 115 joules stipulated in the standards. Thanks to verified performance data, there is no need to check the load bearing capacity separately. The new steel suspension brackets increase the stability of the safety fences with suspended panels.

Black protective grilles and individual dimensions

For a flicker-free view inside the protected area, the improved EcoSafe protective grille is optionally available in black. The continuous ground clearance of 150 mm ensures the maximum value of 180 mm required by the standard, even on uneven ground.

With the EcoSafe standard panels, guards designs of various sizes can be put up quickly and easily. The standard frame height available from stock is 2,000 mm including ground clearance. This covers the majority of applications. The standard widths are 500, 750, 1,000, 1,500 and 2,000 mm.

Safety fences in custom sizes can also be ordered using configurable field numbers. In the case of special configurations, the frame height can be between 400 and 2,500 mm and the width between 250 and 2,500 mm. Any ground clearance from 100 to 250 mm is possible. With suspended panels, the floor distance depends on the placement of the connectors.

Quick planning and digital engineering

With the free MTpro engineering software and the MTpro Online Designer which can be used anywhere, safety fences and other safety systems can be planned, calculated and documented in just a few steps. Automatic order list generation, the simple exchanging or printing of layout data and direct transfer to the Rexroth Online Shop or a partner company all help to save time during the design process.

Basic Information Bosch Rexroth

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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 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, around 33,800 associates generated sales revenue of 7.6 billion euros in 2023.

Basic Information Bosch

The Bosch Group is a leading global supplier of technology and services. It employs roughly 429,000 associates worldwide (as of December 31, 2023). The company generated sales of 91.6 billion euros in 2023. Its operations are divided into four business sectors: Mobility, Industrial Technology, Consumer Goods, and Energy and Building Technology. With its business activities, the company aims to use technology to help shape universal trends such as automation, electrification, digitalization, connectivity, and an orientation to sustainability. In this context, Bosch's broad diversification across regions and industries strengthens its innovativeness and robustness. Bosch uses its proven expertise in sensor technology, software, and services to offer customers cross-domain solutions from a single source. It also applies its expertise in connectivity and artificial intelligence in order to develop and manufacture user-friendly, sustainable products. With technology that is "Invented for life," Bosch wants to help improve quality of life and conserve natural resources. 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. Bosch's innovative strength is key to the company's further development. At 136 locations across the globe, Bosch employs some 90,000 associates in research and development, of which nearly 48,000 are software engineers.

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