

PRESS INFORMATION

Bosch Rexroth announces next-generation conveyor capable of transporting heavy payloads up to 3000kg

Jennifer Fanning | 03/31/2026 | USA | AT26001

Manufacturers can move heavier payloads faster to meet market demand with Bosch Rexroth's TS7plus

- World's first freely configurable, fully electric transfer system for heavy loads
- Complete systems are configurable using standard components
- Individually-driven conveyor sections increase energy efficiency

Manufacturers need to move heavier payloads faster to meet market demand, especially in the automotive, battery and aerospace/defense industries. Bosch Rexroth is addressing this gap with the TS 7plus, the next-generation roller conveyor capable of transporting heavy payloads up to 3,000kg.

Building on its established portfolio of twin-strand conveyors that are currently used in a variety of industry verticals, Bosch Rexroth is introducing the TS 7plus transfer system, which is the world's first freely configurable, fully electric conveyance solution to workpieces weighing up to 3,000 kg.

TS 7plus transports material via conveyor rollers on freely configurable modular sections with lift/transverse, rotary, and positioning units, as well as stop gates. The 350mm minimum possible transportation height for both longitudinal and transverse conveying helps facilitate manual processes and improve ergonomics for employees, while the standard dimensions of the workpiece pallets are up to 2,200 x 3,000 mm.

The conveyor section consists of either solid or hollow rollers, which are approximately 50 percent larger than the previous TS 7 system. The reduced number of moving parts per meter increases availability and the newly designed bearing block enables faster assembly with two mounting tabs in the profile, as well as easy replacement for maintenance.

Lubrication-free king shaft

Unlike chain drives, the tried-and-tested drive via king shafts operates without lubrication and requires minimal maintenance. The motor's torque is transmitted to the conveyor rollers via bevel gears, thus minimizing contamination of the workpieces. The bevel gears also require no re-tensioning or maintenance.

In conventional accumulation operations, stop gates keep workpiece pallets at defined stations. With the alternative segmented operation, the motors for section transport, rotary units, and lift/transverse units run only when required. This increases energy efficiency across the entire life cycle and significantly reduces the total cost of ownership. In addition, the motors can be designed smaller and benefit from a longer service life due to their demand-based operation. Bosch Rexroth offers motors with outputs of 180 W and 250 W for the TS 7plus, as well as an interface for the use of third-party motors.

High conveyor speed, no interfering contours

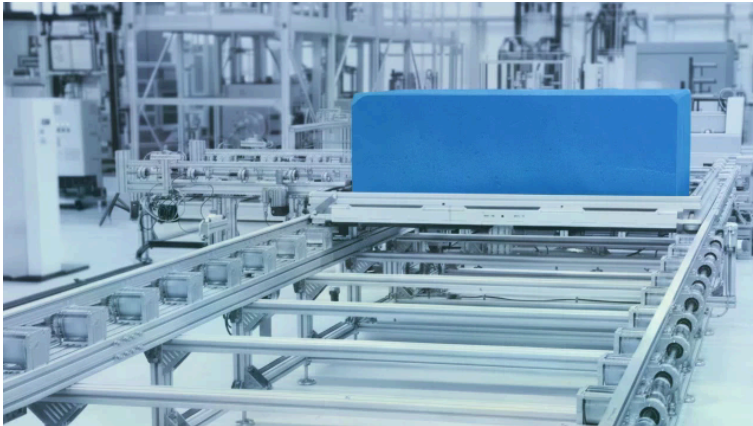
The motors can be placed on either the outside or inside of the section. With internally mounted motors, there are no interfering contours that could otherwise hinder employees or protrude into travel paths. With a conveyor speed of up to 24 m/min, the system achieves significantly shorter transport times than automated guided vehicles (AGVs).

CAD-free configuration with planning software MTpro

The intuitive planning software MTpro assists in the configuration of transfer systems, including TS 7plus, and guides users quickly and easily through the process. Bosch Rexroth offers the software as a locally installable full version and as an installation-free web version in the form of MTpro Online Designer. The software automatically creates CAD models and parts lists from builds, which can be transferred to the Rexroth Store or to certified partners.

Bosch Rexroth conveyance experts will be available to discuss the TS 7plus in booth 2810 at Automate 2026. For more information about the TS 7plus, please visit www.boschrexroth-us.com/ts7plus.

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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, around 32,600 associates generated sales revenue of 6.5 billion euros in 2024.

Basic Information Bosch

The Bosch Group is a leading global supplier of technology and services. It employs roughly 417,900 associates worldwide (as of December 31, 2024). According to preliminary figures, the company generated sales of 90.5 billion euros in 2024. 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 86,900 associates in research and development, of which nearly 48,000 are software engineers.

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