

Factsheet

1. Bosch Rexroth. The Drive & Control Company

Bosch Rexroth is one of the leading specialists worldwide in drive and control technology. Using the brand name of Rexroth, tailor-made solutions for power, control and actuator systems are created for application in industrial automation, mobile equipment and commercial vehicles as well as in renewable energy. The Drive & Control Company is the supplier of choice to more than 500,000 customers for high quality electrical, hydraulic, pneumatic and mechatronic components and systems. In more than 80 countries Rexroth is a reliable partner for its customers, supporting their production of safe and efficient machines and thereby contributing to the economical use of natural resources.

2. Linear Motion and Assembly Technologies

Linear motion technology products are used wherever precision and high load-bearing capacities are required in automated production. They form the decisive interface between stationary and moving machine parts, for example in the shape of profiled rail systems, linear bushings, ball screw assemblies and linear modules. Assembly technology offers basic mechanical elements, add-on modules for manual production systems, assembly transfer systems, as well as flexible chain conveyor systems for component transport between machine tools, in assembly or in the field of packaging. Rexroth is offering worldwide a complete product and systems program in form of high reliable, cost effective components, proven, standardized modules and turnkey applications.

3. Products overview

Linear motion technology

Profiled rail systems, linear bushings, ball screw assemblies, ready-to-install linear systems, multi-axis systems

Assembly technology

Basic mechanical elements, modules for manual production systems, assembly transfer systems, wafer transport system, transfer systems for photovoltaic modules, chain conveyor systems, modular system 'Desktop Factory', RFID-systems

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4. Photovoltaic products

Transfer system TSsolar

Photovoltaic modules in thin-film and silicon cell technology can be transported directly on the new Rexroth TSsolar transfer system. The TSsolar is based on the proven TS 2plus transfer technology and has been customized to meet the specific demands in the solar industry.

It is ideal for standardized series production with high-volume, top-quality output. With a closed surface and a special treatment, the system's toothed belts feature particularly low friction and wear. The TSsolar fulfills the requirements for clean room class 6 (DIN EN ISO 14644-1) and can be used throughout ESD environments. As accumulation of solar components is not permitted during transport, each section element has its own drive. Frequency converters enable the soft stop and accelerating operations required for the sensitive solar products.

Depending on the module size, users can select from various conveyor sections with multiple tracks and lengths of up to six meters. Rexroth also offers the right lift transverse units to move the products from longitudinal to transverse conveyors. A special heat-resistant conveyor version is available for applications such as transporting hot glass plates with temperatures of up to 200°C.

As with all of Rexroth's other transfer systems, the pre-assembled and ready-to-use TSsolar components can be freely combined with elements from the Manual Production Systems range and modular aluminum profile system.

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Rexroth's TSsolar transfer system for transporting photovoltaic modules



Belt section variant of Rexroth TSsolar

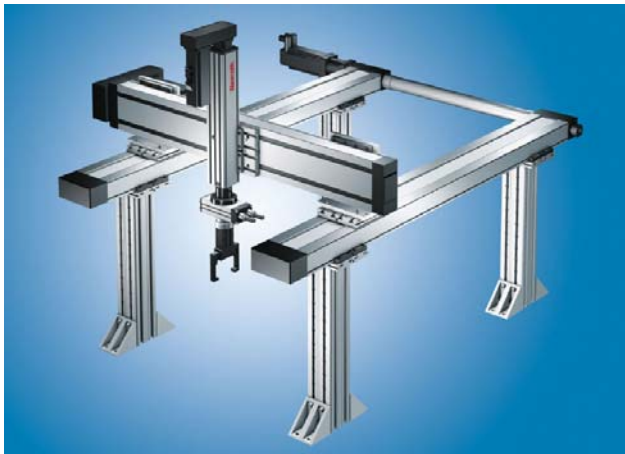
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Wafer transport system

For the smooth transport of silicon wafers Rexroth offers roller or belt based cleanroom conveyors. The cleanroom conveyors are driven by stepper motors with an intelligent zone control to avoid any contact between the wafers.

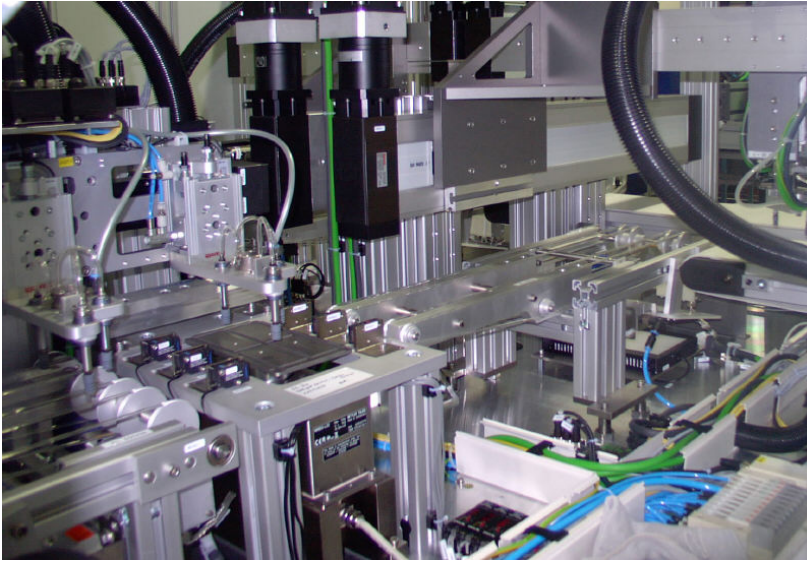
Handling system camoLINE

Rexroth's camoLINE, the new Cartesian Motion Building System, combines perfectly adapted linear motion systems and motors with pneumatic mini slides, rotary compact modules and grippers. Through its innovative connection technology with positive-locking connectors, the building system achieves a level of accuracy in the supporting structure that could previously only be obtained with additional and expensive custom-fabricated parts.



Rexroth camoLINE – Cartesian Motion Building System

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Production line for solar cells equipped with products from Bosch Rexroth.

Bosch Rexroth AG is one of the world's leading specialists in the field of drive and control technologies. Under the brand name of Rexroth the company supplies more than 500,000 customers with tailored solutions for driving, controlling and moving machinery used in industrial and factory automation as well as in mobile applications. As The Drive & Control Company, Bosch Rexroth develops, produces and sells components and systems in more than 80 countries. In 2007 Bosch Rexroth AG, part of the Bosch Group, achieved sales of about 5.4 billion Euro with approximately 33,000 employees.

For more information please visit: www.boschrexroth.com

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