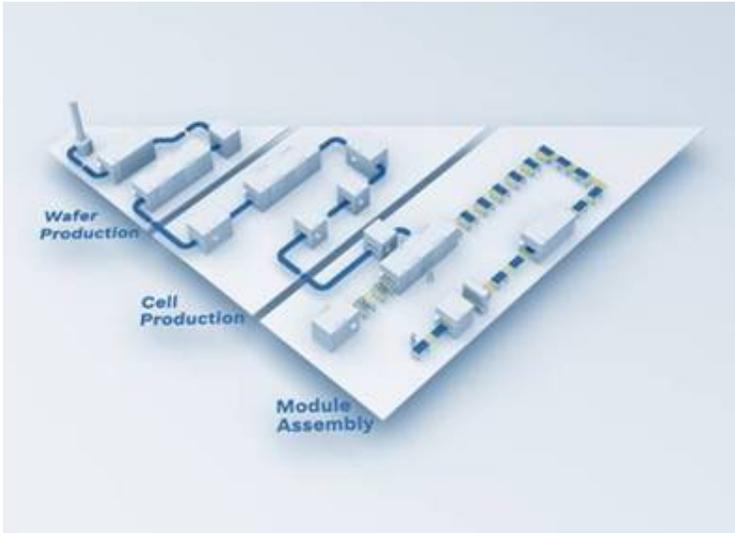


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Automation in Photovoltaics – A New Dimension of Productivity

With continuous automation, Rexroth reduces costs and complexity.



Continuous automation increases productivity: Rexroth solutions across the entire value-added process in photovoltaics

With additional modules, Rexroth expands the extensive automation kit for the photovoltaic industry. It covers all drive and control technologies for the entire production process from the ingot production to metallization, stringing, lay-up and flashing. In this connection, the kit enters new dimensions for increasing productivity with low production costs. The new vertical transfer for the Rexroth TSSolar assembly system bridges height differences from several hundred millimeters to several meters. Together with its camoLINE, the Cartesian Motion Building System with positive-locking connection technology, Rexroth opens up the possibility to replace the robots that have been used until now with Cartesian systems that offer considerably increased efficiency.

Using control technology that can be finely scaled in hardware and software, Rexroth considerably reduces complexity and allows for far-reaching standardization. Its drive-, controller- and PC-based Motion Logic integrations are continuously based on the open PLC according to IEC 61131. This standardizes the operation along the entire value-added chain and shortens the training and maintenance time. Rexroth IndraDrive servo drives with multi-Ethernet interface on hardware also simplify the spare parts logistics. In addition, Rexroth's certified drive-integrated safety technology and condition

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Press Release

monitoring system for electric drives and pneumatic cylinders considerably reduce the standstill times.

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The Rexroth automation kit comprises controls, electric drives, pneumatic systems as well as linear motion and assembly technology compatible with each other. Rexroth, the only manufacturer of complete drive and control technologies, develops all these components aiming at the largest system capability. In this connection, Rexroth combines global application experience in the photovoltaic industry into one global industry management.

Bosch Rexroth Canada is the Canadian subsidiary of Bosch Rexroth AG, one of the world's leading specialists in the field of drive and control technologies. Under the Rexroth brand name, the company supplies more than 500,000 customers with tailored solutions for driving, controlling, and moving. Bosch Rexroth is a partner for Mobile Applications, Machinery Applications and Engineering, Factory Automation and Renewable Energies. The company provides customized solutions tailored to the needs and specifications of each individual market. As The Drive & Control Company, Bosch Rexroth develops, produces, and sells components and systems in over 80 countries. As part of the Bosch Group, Bosch Rexroth and its 34,900 associates generated approximately 5.1 billion euros in revenue in 2010.

To learn more, please visit www.boschrexroth.ca

The Bosch Group is a leading global supplier of technology and services. In the areas of automotive and industrial technology, consumer goods, and building technology, some 285,000 associates generated sales of 47.3 billion euros in fiscal 2010. For 2011, the company forecasts sales of more than 50 billion euros (\$70 billion) and a headcount of 300,000 by the end of the year. The Bosch Group comprises Robert Bosch GmbH and its more than 350 subsidiaries and regional companies in over 60 countries. If its sales and service partners are included, then Bosch is represented in roughly 150 countries. This worldwide development, manufacturing, and sales network is the foundation for further growth. Bosch spent 3.8 billion euros for research and development in 2010, and applied for over 3,800 patents worldwide. With all its products and services, Bosch enhances the quality of life by providing solutions which are both innovative and beneficial.

Additional information can be accessed at www.bosch.com, www.bosch-press.com