

Factsheet

Technology Area Electric Drives and Controls

Bosch Rexroth. The Drive & Control Company

Bosch Rexroth is one of the leading specialists worldwide in drive and control technology. Under the brand name Rexroth, the company supplies tailored solutions for driving, controlling and moving. Bosch Rexroth is a partner for industrial applications and factory automation, mobile applications and using renewable energies. The Drive & Control Company is the supplier of choice to more than 500,000 customers for high quality electrical, hydraulic, mechatronic and pneumatic 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.

Multi-disciplinary know-how is the basis for innovative solutions that are used as components or customized systems. Because Rexroth offers a complete range of drives and controls, advice to customers is free of technological bias, resulting in the most appropriate solution for the task at hand. Rexroth technologies are used in all branches of industry. As system-level partner, service provider and supplier, Rexroth has a fund of knowledge in more than 30 industrial sectors. Comprehensive service offerings fortify Rexroth's leading position worldwide as a partner for machine and system manufacturers.

In 2008, Bosch Rexroth achieved sales of around 5.9 billion Euro with 35,300 employees. The company was created in 2001 through the merger of Bosch Automationstechnik and Mannesmann Rexroth. The entrepreneurial tradition of both companies continues under one roof. In the case of the Rexroth family this extends back to 1795 and in the case of the Bosch family back to 1886.

1. Short Profile of the Technology Field Electric Drives and Controls

In the technology field of Electric Drives and Controls, Rexroth offers a **universal, scaleable automation modular system** as well as a state-of-the-art **engineering environment**. Rexroth universally promotes the use of **open standards** and interfaces. In drive technology, the **pioneer of servo-drive technology** offers a wide spectrum of rotating motors as well as linear, torque and high-speed motors. IndraDrive, the new Rexroth drive generation, with over a hundred technological functions, is setting the standards in decentralized intelligence. **The extensive range of PLC, Motion Control and CNC control devices** consistently uses the **IndraLogic** open sequential control device, **compliant with IEC 61131-3** – from soft-control right through to drive and control devices and PC-based hardware. Complete, industry-oriented automation

Contact for Journalists:
Bosch Rexroth AG
Dr. Wiebke Wittschen
97814 Lohr am Main
Tel.: +49 (0) 93 52 - 18-1573
Fax: +49 (0) 93 52 - 18-1190
wiebke.wittschen@boschrexroth.de

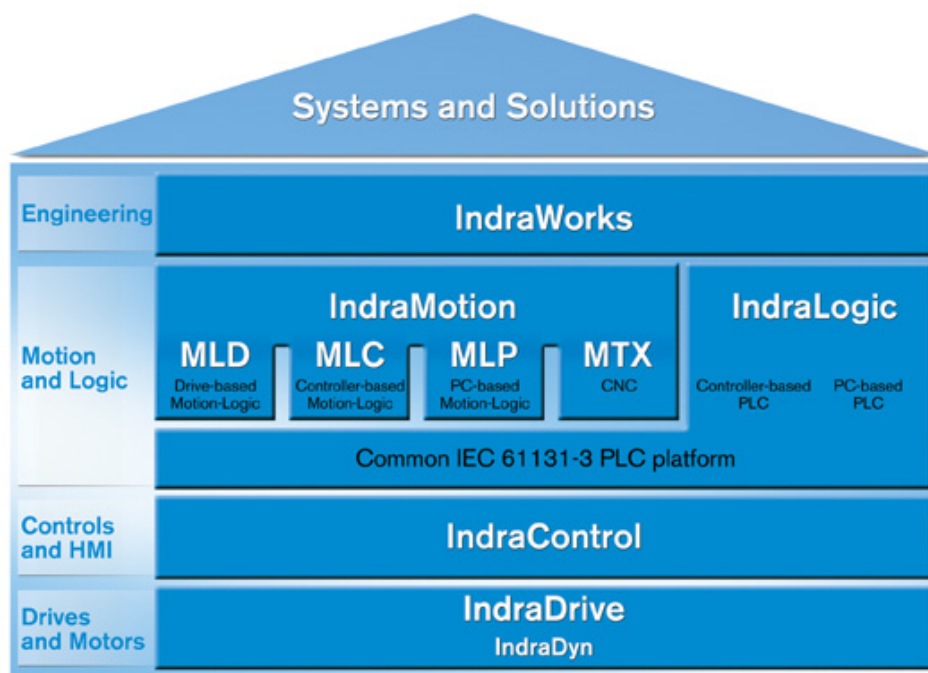
Factsheet

Technology Area Electric Drives and Controls

solutions encompass all drive and control tasks with open standards and communication interfaces.

2. Products

Drive technology, PLC, CNC and motion control devices, industry-specific automation systems, Tightening and press-fit systems, resistance welding



3. Industries

Machine tools, printing and paper processing machinery, general automation, food and packaging machinery, semiconductor and medical industries, drives business

4. Trends in Technology

Rexroth consistently uses **open systems and internationally accepted standards**. The drives and controls support all current fieldbus systems,

Factsheet

Technology Area Electric Drives and Controls

Ethernet TCP/IP and SERCOS interface, the only world-wide real-time drive interface.

With **vertical integration**, the open interfaces and universal protocols of the Rexroth system solutions provide transparent data access from company software to drive level.

The **functional integration** acts as a considerable support when it comes to simplifying the design of machines and especially with regard to reducing non-productive time. Decentralized intelligent actuators working in unison with high-performance software can synchronize and parallelize motion sequences more effectively than previously. New functionalities, for example preventive diagnostics, can quickly be transformed into innovative machine concepts. Rexroth integrates PLC and CNC functionalities in extremely fast motion logic solutions on scaleable hardware.

In automation, **software** is increasingly replacing hardware, assuming synchronization tasks and taking over from the cam disc and cam controller. By means of special technology functions Rexroth system solutions are increasing the flexibility of the machines and considerably shortening re-tooling times, for example.

Universal **modularization** and high performance are made possible by the decentralized intelligent system architecture. In this way the size and functionality of machines and systems can be scaled easily. **Functionalities** are increasingly **migrating** to the drive level, simplifying modularization. IndraDrive, the new Rexroth drive generation, offers more than 100 technological functions at the highest configuration level, including open PLC functionalities in accordance with IEC 61131-3, motion logic integration with functional building blocks to PLCopen and EN 654, Category 3, certified safety functions.

With the innovative **IndraWorks engineering environment**, **Rexroth** has separated the individual software tools from the .NET framework technology. The modular software suite encompasses **all the necessary tools for project design, programming, parameterization and diagnostics** and adapts itself to the requirements of the relevant automation task. In this way Rexroth considerably **reduces the time required for engineering and commissioning**.

Contact for Journalists:
Bosch Rexroth AG
Dr. Wiebke Wittschen
97814 Lohr am Main
Tel.: +49 (0) 93 52 - 18-1573
Fax: +49 (0) 93 52 - 18-1190
wiebke.wittschen@boschrexroth.de

Factsheet

Technology Area Electric Drives and Controls

5. Production Sites



Lohr/Main, Germany

- Drives and Controls



Murrhardt, Germany

- Tightening and press-fit systems



Erbach, Germany

- Drives and Controls
- Resistance welding systems



Skofja Loka, Slovenia

- Housing motors
- Linear motors
- Assembly kit motors



Hoffman Estates, USA

- System development for the food and packaging industry (no production)



Eindhoven, Netherlands

- System development for the semiconductor and medical market (no production)

Contact for Journalists:
Bosch Rexroth AG
Dr. Wiebke Wittschen
97814 Lohr am Main
Tel.: +49 (0) 93 52 - 18-1573
Fax: +49 (0) 93 52 - 18-1190
wiebke.wittschen@boschrexroth.de

Factsheet

Technology Area Electric Drives and Controls

6. Contact

Bosch Rexroth AG
Susanne Herzlieb
97816 Lohr
Tel.: +49-9352-40-4552
Fax: +49-9352-403-4552
susanne.herzlieb@boschrexroth.de