Bosch Rexroth – Your experienced partner in high end robotics

IndraMotion MLC automation system for robot applications

Dedicated to several target industry sectors we offer our system solution of HMI, robot and motion control, servo drives and motors for robot applications. Capable to control a wide range of different kinematics, the IndraMotion MLC control system integrates all motion, robot and logic control functions needed. Fast, easy and transparent data access and common share of all process data lead to precise path calculation and perfect synchronization of all movements.

Efficient engineering in robotics
For successful robotics implementation we offer dialog based configuration tools. Move your robot for initial commissioning without any programming. In IndraMotion MLC, robot programming can be achieved also via PLCopen function blocks in standard IEC61131-3. Even user defined robot transformations are implemented directly. Generating PLC code by use of wizards, helps to automatically design reusable and modular robotic applications software. Open Core Engineering provides future proof programming technology, with simple sequential or high level languages (Lua, C/C++, Java or C#). Run the application in realtime simulation mode, to center the attention on process engineering. Optimize your robot system for smooth operation and secure the customers production targets.

Camera system integration
A robot without proper vision system integration is blind and useless in changing environments. To productively use the equipment, the selected vision system is fully integrated into automation environment. For fastest processing of vision data and movement calculation, you take advantage of the high bandwidth Sercos or Ethernet connection to the IndraMotion MLC. Synchronization to moving pick position on product belts are precisely realized at highest pick rates.

Performance and openness whatever the platform is
Using state-of-the-art PLC technology, IndraMotion MLC provides the perfect foundation for intelligent automation of production machinery and equipment: motion, robot and logic control joins forces with technological functions to form a high-performance system. This allows for both fast I/O signal processing and highly dynamic motion control tasks – not to mention with up to 99 axes using a single control.

Open Core Engineering from Rexroth significantly increases the engineering efficiency and offers an unparalleled degree of freedom, flexibility and efficiency in automation.

More detailed information:
www.boschrexroth.com/mlc

More detailed information:
www.boschrexroth.com/oce

More detailed information:
www.boschrexroth.com/oc
Bosch Rexroth is driving the next industrial revolution as a leading automation supplier and manufacturing company. With a huge automation portfolio and production experience from our own plants worldwide, we can offer leading automation and manufacturing solutions – from single piece to high volume production. Connected automation in manufacturing leads to a faster and more flexible production process, greater efficiency of material, and reduction of complexity and downtime.

Packaging industry
Top loader applications in packaging industry demand for highest pick rates. Also adaptive robot movements are necessary. One IndraMotion MLC controls several robot kinematics with synchronization to several belts. This provides high throughput of products.

- Adaptive to changing environment
- Belt or table synchronized movement
- Multi kinematics
- Cabinet-free drive solution

Beverage industry
For robot applications in beverage industry and in end of line intralogistics we provide a strong portfolio of servo motors and powerful drives, with certified Safe Motion functions. We offer robust production equipment for 24/7 operation in harsh environments.

- Strong servo drive portfolio
- Robust design
- Safety up to SIL3 acc. IEC61508 or PL e acc. 13849-1
- Worldwide service capacity

Electronics and manufacturing
Robot applications in electronics and manufacturing are based on assembly, handling, dispensing or testing. Flexibility in type of kinematics and the use of different languages for programming is in high demand. IndraMotion MLC fulfills all these requirements combined with an easy and wizard-based engineering, which reduces your time to market.

- Scalable control portfolio
- Range of ready to use kinematics
- Fast dialog-based engineering
- Linear motion systems
- Tightening systems

Automotive and Tier1
Rexroth supplies many automotive applications, from body shop (forming, welding) to powertrain and final assembly. Also diverse manufacturing plants worldwide for Tier1 production are automated with our system solutions.

- Proven reliability
- Strong application support
- Easy operation and maintenance

We move everything: Let Bosch Rexroth help you connect to Industry 4.0. Now!
Bosch Rexroth is driving the next industrial revolution as a leading automation supplier and manufacturing company.