

## More intelligence for small drives

IndraDrive Cs more intelligent than ever and I4.0-ready

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For Immediate Use



IndraDrive Cs offers direct access to the drive parameters for I4.0

**Machine manufacturers and system integrators expect everything – from comprehensive functionalities to drive-based motion logic controls to direct access to drive parameters and data. They want to make use of production data available for IoT and I4.0. To accommodate these requirements, Rexroth offers the compact drive series IndraDrive Cs equipped with an OpenCore interface enabling access to the drive through, practically, any high-level language. In addition, Multi-Ethernet or an additional fieldbus interface simplify integration into various automation concepts. Plus, drive-integrated safety functions achieve up to SIL 3.**

The performance level of the IndraDrive Cs drive series offers new levels of freedom in automation. Its OpenCore interface bridges the gap between PLC and IT-based automation enabling the integration of application areas using IT technologies such as: Smart devices in automation, PC based IT automation or rapid control prototyping.

The small drives and their universal communication hardware support all standard Ethernet-based communications interfaces, e.g. Sercos, PROFINET IO (RT), EtherNet/IP, and EtherCAT. Users configure the desired communication protocol for the multi-Ethernet interface themselves using the software or front panel. In addition, the innovative multi-encoder interface also supports a wide range of standard encoder systems, e.g. EnDat, Hiperface, SSI encoder, simple TTL incremental encoder, sine-cosine encoder, resolver, and the serial encoder system

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## Press Release

for Rexroth's exceptionally compact MSM motors. IndraDrive Cs also supports different linear motor versions by using the electronic commutation and/or analog and digital Hall sensors.

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Using an additional field bus interface, the new version with its connected slave drives can be integrated into nearly any control environment as an intelligent subsystem. An integrated gateway gives the field bus master access to the slave drives connected to the IndraDrive Cs, just as if they were directly connected to the field bus master.

The compact small drives with the certified Safe Torque Off (STO) safety function and Safe Brake Control (SBC) achieve Kat 4 PL e according to EN ISO 13849-1 and SIL 3 according to EN 62061, and allow the fast realization of modern safety concepts. These safety functions are available for all power stages and performance levels of IndraDrive Cs.

Saving the firmware and parameters in the intelligent control panel enables the transmission of all drive-specific data by simply exchanging the control panel. That feature allows a fast, PC-less device exchange and comfortable series commissioning. Enhanced capabilities, especially when combined with IndraMotion MLD applications, are possible with the optional use of a µSD card for additional memory. An integrated web server, the IndraMotion Service Tool, offers access to all drive diagnoses and parameters via a standard web browser.

Rexroth offers the highly dynamic IndraDrive Cs compact drives for open and closed loop operations and direct network connection in two versions. The converters for 100 to 230V AC mains supply are designed for connecting motors with 50 to 750 watts of mechanical continuous power and can also be operated as single-phase drives without significant power loss. The drives for supply voltages of 200 to 500V AC cover the power range from 400 watts to 14 kW continuous power.

For a list of specifications as well as available features and accessories please visit [www.boschrexroth-us.com/brc](http://www.boschrexroth-us.com/brc)

### **About 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 Applications, Machinery Applications and Engineering, and Factory Automation. With its intelligent components, customized system solutions 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*

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*Things. With locations in over 80 countries, more than 32,300 associates generated sales revenue of roughly 6.2 billion euros (\$7.3 billion) in 2018.*

To learn more, please visit [www.boschrexroth-us.com](http://www.boschrexroth-us.com).

## **About Bosch:**

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