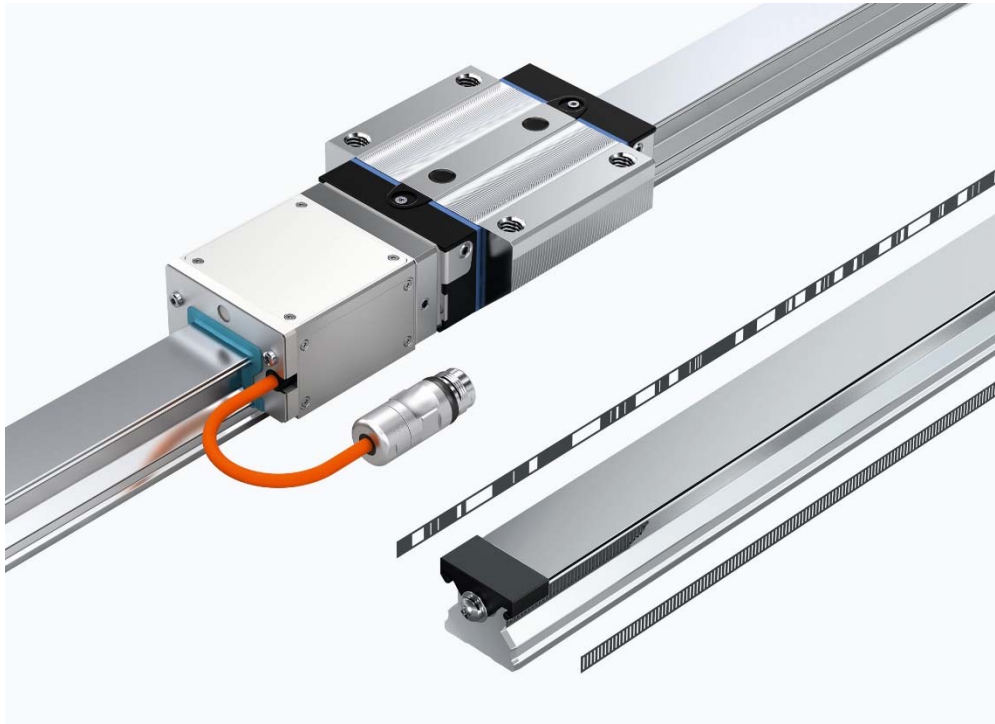


Press Release

Absolute, Robust and Precise: IMS-A Integrated Measuring System from Rexroth

Inductive absolute value measurement integrated in linear guides

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2015-03-04



Guide and measuring device in one: The IMS-A integrated measuring system detects the absolute position and works with high precision, even in a rugged environment.

The new Rexroth IMS-A measuring system integrated in linear guides detects the absolute position of the axis to +/- 4 micrometers. What's more, the measuring system is immune to contamination, vibrations, shocks and magnetic interference and needs no buffer batteries in the event of a power failure. Additional temperature and motion sensors are installed in anticipation of future requirements in terms of Industry 4.0.

When machines are switched back on following a power failure, the controllers in many applications need to know the position of each axis immediately. The new integrated IMS-A measuring system from Rexroth immediately recognizes the absolute position of the axis with a high degree of precision when the machine is switched on and reports them to the controller without carrying out a reference run. For this, the system does not require buffer batteries that need to be replaced regularly.

Thanks to the inductive measuring principle, the IMS-A operates without physical contact and is therefore a wear-free assembly. The measuring scale cannot be interfered with or destroyed by external magnetic fields. The IMS-A

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is not sensitive to vibrations up to 10 G and shocks up to 50 G. The sensors and evaluation electronics are located in protective housing on the end face of the runner block. With the IMS-A, position detection takes place very close to the tool center point, an important prerequisite for high precision, and thus surface quality in machining. The position resolution of the IMS-A is up to 0.025 µm.

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The functional integration of guiding and measuring in an assembly minimizes installation times. No adjustment of the measuring system is necessary. With the IMS-A, engineers can use several runner blocks on an up to 4,500 mm long profile rail independently and without any accuracy limitations.

Prepared for Industry 4.0

The integration of additional temperature and motion sensors makes this measuring system prepared for the future requirements of Industry 4.0. The sensor data forms the basis for future approaches to predictive maintenance. The user can record and evaluate operating states online.

Economical, precise, safe, and energy efficient: drive and control technology from Bosch Rexroth moves 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 to develop innovative components as well as tailored system solutions and services. Bosch Rexroth offers its customers hydraulics, electric drives and controls, gear technology, and linear motion and assembly technology all from one source. With locations in over 80 countries, more than 33,700 associates generated sales revenue of approximately 5.6 billion euros in 2014.

To learn more, please visit www.boschrexroth.com

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