

## Press Release

### Rexroth's Planetary Screw Assemblies: Big Solutions in Small Packages

A precise, efficient, quiet and economical roller screw solution for high load applications.

2018-02-27

For Immediate Use



Rexroth's Planetary Screw Assemblies (commonly referred to as roller screws) have a compact design for easy integration into applications requiring high load capability.

**Ideal for forming and pressing operations, molding and medical technology, Rexroth's Planetary Screw Assemblies (commonly referred to as roller screws) are a cost effective, high-performance drive system that uses precision threaded rollers that rotate around the screw, converting rotary motion into linear motion. Its compact design makes it easy to integrate into applications requiring high load capability, precision and low environmental impact. Rexroth's economical, high quality Planetary Screw Assemblies ship quickly and offer an efficient drive solution for applications requiring up to 65,000 pounds of force.**

Offering all of the advantages of roller screws – compact design, precision, quiet and clean operation – Planetary Screw Assemblies (PLSA) are used in drive systems and are comprised of threaded rollers (planets) that rotate around the screw. Ultimately, this produces efficient linear actuation that is

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easy to integrate into applications (new and existing) that require high load capability, precision and low environmental impact.

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The series comprises cylinder and flange nuts as well as screws with different diameters and leads. Dynamic and static load capacities of up to 544kN and 1496 kN respectively, combined with more compact dimensions and lower noise levels, enable a wide range of existing and new applications requiring up to 65,000 pounds of force.

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### Smooth Running Characteristics

The new PLSAs attain very high positioning and repeat accuracy, even when minimal travel distances are involved. The planetary design, with planets positioned axially parallel around a rolled threaded screw, ensures very smooth running characteristics and noticeably lower noise emissions compared to ball screws. The numerous contact surfaces inherent in the design lead to a high load-bearing capacity and a long service life.

Additionally, the innovative sealing system in the roller screw results in long lubrication intervals. This, in turn, reduces maintenance costs and helps protect the environment by keeping the consumption of lubricants to a minimum.

### Fields of Application

Combining a roller screw with a servo motor produces a mechatronic unit with the nominal force of a hydraulic cylinder. Ultra-high accuracy, positioning and flexibility as well as low energy consumption make the design perfect for use as a feed axis in modern servo presses, machine tools and injection molding machines.

With the introduction of its PLSA, Rexroth delivers custom-machined roller screws to users quickly and economically, making it easier than ever to replace existing roller and ball screws. For more information, click [here](#).

*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*

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technology, and linear motion and assembly technology all from one source. With locations in over 80 countries, more than 29,500 associates generated sales revenue of approximately 5 billion euros in 2016.

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

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The Bosch Group is a leading global supplier of technology and services. It employs roughly 400,500 associates worldwide (as of December 31, 2017). According to preliminary figures, the company generated sales of 78 billion euros in 2017. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT company, Bosch offers innovative solutions for smart homes, smart cities, connected mobility, and connected industry. It uses its expertise in sensor technology, software, and services, as well as its own IoT cloud, to offer its customers connected, cross-domain solutions from a single source. The Bosch Group's strategic objective is to create solutions for a connected life, and to improve quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life." The Bosch Group comprises Robert Bosch GmbH and its roughly 440 subsidiaries and regional companies in some 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. The basis for the company's future growth is its innovative strength. At 125 locations across the globe, Bosch employs 62,500 associates in research and development.

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