



WITTENSTEIN at EMO 2017

July 18, 2017

Planetary and right-angle gearheads: WITTENSTEIN alpha redefines the premium segment

At the EMO Hannover from September 18 to 23, 2017, WITTENSTEIN alpha will show two re-engineered and extended planetary gearhead families together with their respective right-angle equivalents in the premium segment. The optimized Premium Linear Systems will be a further highlight at the booth in Hall 25 (Stand A36).

High-tech products made by WITTENSTEIN fly into space and win Formula One races. Intelligent drive systems – from the world's smallest high-performance servo drive to the latest state of the art in medical technology – are developed, produced and marketed by a team of around 2100 employees. With a blend of dedication and enthusiasm, we set benchmarks – every day – worldwide.

Machine tools are among the most important application segments for gearheads, servo actuators and linear systems. WITTENSTEIN alpha offers highly economical mechatronic solutions featuring customized technology to meet the dynamics and precision requirements of these machines. At the upcoming EMO Hannover 2017, WITTENSTEIN alpha will focus on the premium segment – with re-engineered and extended gearhead families plus the new, complementary Premium Linear System.



The Premium Linear System with RP+ sets the standard for linear feed drives in machine tools.

Planetary gearheads for more motor output and binary reduction ratios

The new Premium XP+ gearhead and its right-angle equivalents (XPK+ and XPC+) are each available in five different sizes. Both the maximum speed and the maximum torque have been significantly improved. These gearhead variants are suitable for much higher input speeds. This positively impacts on the drive train as a whole, enabling even more efficient sizing and creating valuable downsizing potential. The traditional standard reduction ratios have simultaneously been extended with three binary ratios: $i=8$, 32 and 64.

Low-backlash planetary gearheads: the benchmark for power density and modularity

More speed and more torque – leading to more power density than ever before – is also the maxim for the optimized RP+ low-backlash

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planetary gearheads. The highly rigid gearhead design, which was specially developed for linear applications with a rack and pinion, provides unprecedented performance. This is crucial to ensure precise and repeatable kinematics in high performance machine tools and is now also integrated in four sizes in the version with a bevel gear input stage. Thanks to the bevel gear input stage of the new RPC+ series, the same reduction ratios can now be achieved with the right-angle versions as with the coaxial RP+. The segment is rounded off by the hypoid right-angle RPK+ variant, which likewise has a modular design

Premium Linear System for even more options

The re-engineered Premium Linear System, which exploits the added technological benefits of the enhanced planetary and right-angle gearhead series, will also be making its debut. The preferred linear systems (from 5 to 120 kN) – now redefined – are always comprised of the ideal combination of a gearhead, rack, pinion and lubrication system. INIRA – the quick and easy assembly system for racks – can optionally also be used for all systems that have been optimized in terms of component utilization, moving force, movement speed and rigidity. For even higher requirements, the system can be further optimized by the sales engineers using cymex®, for example by improving the natural frequencies in the drive configuration together with the customer (taking the master slave / gantry into account) or accommodating other specific wishes.

Mechatronic drive technology and nanoprecise measurement systems for machine tools

The Galaxie® Drive System, servo actuators in several different configurations and the IDS3010 measuring sensor with sub-nanometer resolution from WITTENSTEIN subsidiary attocube systems AG will also be exhibited by the innovation leader for mechatronic drive technology under the motto “WITTENSTEIN in all axes”.

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Photo:

The Premium Linear System with RP⁺ sets the standard for linear feed drives in machine tools.

Texts and photographs in printable quality can be downloaded from presse.wittenstein.de.

WITTENSTEIN SE – one with the future

With around 2100 employees worldwide and sales of approximately €337* million in 2016/17 (*provisional figure), WITTENSTEIN SE enjoys an impeccable reputation for innovation, precision and excellence in the field of mechatronic drive technology – not just in Germany but internationally. The group comprises six pacesetting Business Units with separate subsidiaries for servo gearheads, servo actuator systems, medical technology, miniature servo units, innovative gearing technology, rotary and linear actuator systems, nano technology and electronic and software components for drive technologies. Through its 60 or so subsidiaries and agents in approximately 40 countries, WITTENSTEIN SE (www.wittenstein.de) is additionally represented in all the world's major technology and sales markets.

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