



## Premium Linear System from WITTENSTEIN alpha: further optimized rack-and-pinion systems

The re-engineered Premium Linear System, which supersedes the familiar Performance and High Performance Linear Systems, will be introduced by WITTENSTEIN alpha at the EMO Hannover from September 18 to 23, 2017. It exploits the improved dynamics and the increased torque and power density offered by the new XP+ and RP+ planetary gearhead generations in both the coaxial and the right-angle versions. Furthermore, INIRA – the quick and easy assembly system for racks – and the R flange guarantee ultra-simple and reliable installation. The Premium Linear System is offered by WITTENSTEIN alpha in various perfectly matched, preferred configurations. This product family simultaneously opens up a world of opportunities for bespoke drive configurations, for example using the cymex® 5 sizing software.

“WITTENSTEIN alpha in all axes” – not just the Premium Linear System but also the Value and Advanced Linear Systems have been repositioned by the company with this claim. If the high performance Premium Linear System, for instance, is used in the main axis of a machining center, the Value and Advanced Linear Systems are the ideal solution for the tool changer of the same application.

### Fast system selection – all from one supplier

There is a fundamental correlation between the performance of a linear system and the interaction of the individual components. The gearhead, pinion, rack and lubrication system of preferred linear systems are perfectly matched for this reason. Hence, not only the individual components of preferred systems – which are available between 2 kN and 112 kN in the decentralized drive – are optimally utilized; the entire system delivers the best possible performance in terms of moving force, movement speed and rigidity. Designers can select the perfect solution fast and source everything from one supplier. All kinds of interface risks typically associated with

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WITTENSTEIN develops customized products, systems and solutions for highly dynamic motion, maximum-precise positioning and smart networking for mechatronic drive technology.



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individual sourcing from multiple suppliers are avoided in this way – even with customized systems.

### **Customized design interactively**

Preferred systems enable a broad spectrum of regularly recurring tasks and requirements to be covered efficiently. If a customer is seeking a rack-and-pinion solution with special performance features, WITTENSTEIN alpha's experienced sales and application engineers optimize the configuration of the drive solution using the cymex® 5 sizing software. This could entail improving the natural frequencies in the drive configuration together with the user or accommodating other specific wishes such as a configuration with master slave / drives.

### **Simple and efficient assembly**

All linear systems are designed to ensure simple, fast and reliable assembly, be they preferred systems or bespoke rack-and-pinion solutions. The INIRA assembly system provides more degrees of freedom for designing the machine bed and less than half of the usual labor time is required for installation by the fitter – while assembly precision is increased. INIRA pinning, for instance, reduces the time to pin a rack to about a minute compared to 45 minutes with the standard method – regardless of the mounting position and module. The optional R flange likewise reduces the design and assembly effort significantly for machine manufacturers because the positioning mechanism is already integrated in the gearhead output interface. And last but not least, the flange permits even more solid and more rigid bed designs.

### **Suitable solutions for all axes and requirements**

The new Premium Linear System takes the place of WITTENSTEIN alpha's existing Performance and High Performance Linear Systems. The Value and Advanced Linear Systems – which are also available as preferred linear systems – are optimized for applications with lower moving force, positioning accuracy and smooth running requirements.

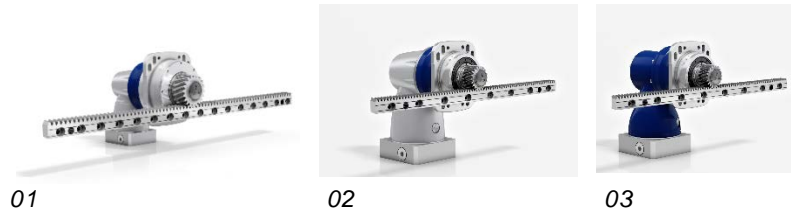
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**Pictures:**



- 01 **WITTENSTEIN Premium Linear System RPC+:**
- 02 **WITTENSTEIN Premium Linear System XPCR:**
- 03 **WITTENSTEIN Premium Linear System XPKR:**

The Premium Linear System is optimized for applications with high to very high smooth running, positioning accuracy and moving force requirements.



**02\_WITTENSTEIN Value Linear System NPR:**

The Value Linear System is adapted to linear applications in the value segment with comparatively low smooth running, positioning accuracy and moving force requirements.

Texts and photographs in printable quality can be downloaded from [presse.wittenstein.de](http://presse.wittenstein.de).

**WITTENSTEIN SE – one with the future**

With around 2400 employees worldwide and sales of approximately €339 million in 2016/17, 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](http://www.wittenstein.de)) is additionally represented in all the world's major technology and sales markets.

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