



WITTENSTEIN

alpha

High Performance Linear System The Revolution in Linear Technology

Maximum performance
Qualified partner
Perfect design



Absolutely world class



Doubled performance in less space!

The [High Performance Linear System](#) adds a new dimension in performance to the rack and pinion system. While other companies are still laboring to adapt existing solutions to new requirements, WITTENSTEIN alpha's sophisticated linear systems are several steps ahead. The innovative [High Performance Linear System](#) assemblies are ideally suited for advanced applications requiring more options than traditional linear motion. The [High Performance Linear System](#) is the future of linear systems, achieving a 120% improvement on present industry standards!

Three components – one system, from a single source!

Gears, pinions, and the perfect rack from a single source – with the expertise of a system supplier based on 30 years of experience. Minimize the time, effort and expense of coordinating different component suppliers. Maximize your performance through our consultation – including assistance in your development, on-site installation and post-sale customer service.

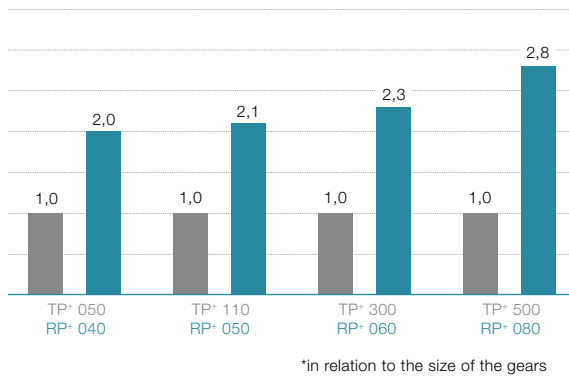
The new design of the [High Performance Linear System](#) gives you the direct benefit of our state-of-the-art rack and pinion system and improved efficiency for any application you choose. Expect to be surprised by the difference!

3 x 1 = one

High Performance Linear Systems impress with their maximum power density

- When your drive needs maximum performance
- When you care about getting the best possible consulting
- When your system needs to be even more compact

Comparison of power density in standard products and our High Performance Linear System*



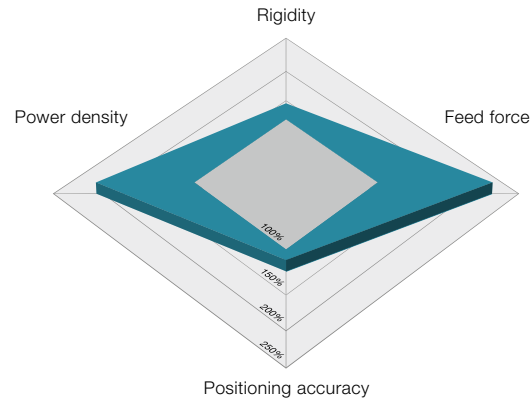
The revolutionary High Performance Linear System

- Gears, rack and pinion from a single source!
- 3 components – one unsurpassed peak performance
 - 3 components – one perfectly designed system
 - 3 components – one contact person

Positioning accuracy [μm]	< 5*
Ratios [-]	4 - 220
Max. feed force per drive [N]	112,000
Feed speed [m/min]	400
Efficiency [%]	\leq 97
System rigidity [%]**	+ 50

* direct measurement system needed ** compared to the industry standard

Comparison of standard rack and pinion systems with our High Performance Linear System



Maximum freedom in design



50% less labor required for installation



The High Performance Linear System convinces also with many design features.

High Performance Linear System



Consulting and engineering

Take advantage of the many years of experience and expert skill set of our highly qualified staff. You can count on the comprehensive engineering services offered by WITTENSTEIN. We work with you to develop the ideal drive solution to meet your requirements.

Available options

The RP+ gear system is also available in an RPM+ Actuator version. The RPM+ Actuator is exceptionally dynamic, even more compact and perfectly suited to linear applications that use rack and pinion systems. In the motor version, maximum power density and functional design are fused into a unit featuring visible length benefits with an even more compact design! The motor ensures plus performance – the special design of its permanently activated actuator provides maximum power density at all times.



Gearhead, rack, pinion from a single source



The High Performance Linear System is also available in combination with the Actuator RPM+.

Your benefits at a glance

- More safety built into the design
- Maximum power yield
- Potential use of smaller gears - all resulting in reduced costs
- Maximum freedom in design

- 120% more feed force
- 100% higher power density
- 50% higher system rigidity
- 50% less labor required for installation
- 15% more accurate positioning

Trailblazing – your partner for the future

30 years of experience

An uncompromising will to innovate and the constant readiness to adapt – for 30 years these have been success factors for WITTENSTEIN alpha, the global market leader for mechanical servo drive systems. But the real drivers of our success are you, our customers, who have repeatedly put our unique core competencies to the test and presented fresh challenges to our engineering skills. As we see it, this is being one with the future. Standstill means going backwards. With our [High Performance Linear System](#), you are guaranteed to be best equipped to meet future challenges!



Partnership

We cultivate a very personal relationship with our customers, based on mutual trust and shared values. We work with you to develop future-oriented solutions to meet the needs of a market that is constantly changing. Our dialog with you forms the basis for our shared success.

If you have a challenge for us, we will be happy to meet it! We offer you clear benefits. Just put our values to the test. In collaboration with you, we aim to boost your competitiveness and so ensure the future of your company.



Dr.-Ing. E. h. Manfred Wittenstein
President of WITTENSTEIN AG

Quality and reliability

We define quality as a philosophy that is lived in practice. Our quality is guaranteed by a thorough QM system, backed by state-of-the-art measurement and testing methods. With our 100% final control inspections, we guarantee the quality and reliability of your [High Performance Linear System](#) from a single source.

Sales and service all over the world

Never mind where you need us – our closely meshed sales and service network means you can find us easily and get expert support anywhere in the world.

Our professional teams at the local level will be happy to answer any questions you may have.



Want to find out more about our new **High Performance Linear System**?
Please contact our expert sales engineers. Give them a call at +49 7931 493-10800.



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WITTENSTEIN alpha – intelligent drive systems

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