



PIONEER = (KNOW HOW + VISION + COURAGE)²

**WITTENSTEIN AG
at the Hanover Fair 2012**

March 14, 2012

**WITTENSTEIN in Hall 15, Stand F08 (Industrial Automation)
and at the "MobiliTec" exhibition in Hall 25, Stand M11
(VDMA joint "E-motive" stand)**

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 1.400 employees. With a blend of dedication and enthusiasm, we set benchmarks – every day – worldwide.

The WITTENSTEIN Group will portray itself at the Hanover Fair 2012 as a supplier of high-end components for resource-efficient drives in a very wide range of applications. Outstanding pioneering achievements by all Business Units in the field of mechatronic drive technology will be on show from April 23 to 27, 2012 under the motto "PIONEER = (KNOW HOW + VISION + COURAGE)²": for example, even more powerful drive solutions and systems for handling and packaging machines, wind turbines for private homes or tomorrow's e-sports cars.



A classic now better than ever: the new LP⁺ Generation 3 series from WITTENSTEIN alpha sets new performance benchmarks in its class.

Technology for people – made by WITTENSTEIN

The WITTENSTEIN Group has taken "greentelligence" – the theme of this year's Hanover Fair – and applied it to its own core competencies: high-tech products and systems made by WITTENSTEIN fly into space and win Formula One races; they control machines for extracting natural gas on the sea bed and help stimulate the growth of human bones. Future novel technologies will increasingly reflect the worldwide desire for resource efficiency and sustainability.

WITTENSTEIN AG

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WITTENSTEIN alpha GmbH: LP⁺ Generation 3

Innovations are driven by market and user needs. Noise reduction, energy efficiency and downsizing are the three main trends in drive technology.

WITTENSTEIN alpha has responded to this demand by subjecting one of its true "classics" to a comprehensive overhaul with the result that is now better than ever: the third generation of the LP⁺ planetary gearhead series, which will be launched to coincide with the Hanover Fair, represents yet another milestone in gearbox development in this performance class. This versatile performer, which made its début back in 1993 and was upgraded in 2004 with significantly improved characteristics, has now been further optimized to provide designers of feed axes, handling systems, packaging machines and industrial machinery in general with multiple technical and economic benefits.

New design and machining processes have enabled WITTENSTEIN alpha to realize an impressive performance leap. The transmitted torques are now up to 75% higher than the industry standard. The new gearhead is also much quieter thanks to the optimized gearing parts and tooth flank geometry – the noise level has been more than halved. At the same time, LP⁺ Generation 3 gearheads open up important downsizing options for users.

The new LP⁺ Generation 3 series from WITTENSTEIN alpha sets new performance benchmarks in its class.

WITTENSTEIN as a partner for renewable energy projects

WITTENSTEIN cyber motor, a subsidiary of the WITTENSTEIN Group, has come up with something to arouse the interest of energy conscious homeowners: an integrated generator built by WITTENSTEIN cyber motor is a key component of the ENFLO 0110, a compact wind turbine from WindTec Systems that can be installed without a permit. The permanently excited synchronous motors, which were optimized specifically for this customer application, feature not only very quiet running and a space-saving design but also a greatly reduced weight / power ratio (kg / kW) and far higher efficiency – up to 98% – than can be achieved with asynchronous technology. The wind turbine is thus more than just a simple "rotor plus motor". It was the fine tuning work undertaken together with the customer during the design and optimization of the generator that helped make the development of this novel wind turbine such an exciting project.

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High-performance motors for tomorrow's world

WITTENSTEIN's experience as a mechatronics specialist in a variety of industries has also been applied with considerable success in the electromobility sector. At the "MobiTec" flagship exhibition in Hanover, the WITTENSTEIN Group will present itself as a development partner for "high-performance motors for tomorrow's world".

The aim is not to serve the mainstream but to capture and retain niche segments. Several cooperative ventures have already been launched with automotive manufacturers. A WITTENSTEIN motor and power electronics are installed in every hybrid vehicle taking part in VW's "twinDRIVE" fleet test, for example. The powertrain for an e-sports car will testify to WITTENSTEIN's development expertise in this field at the VDMA's joint "E-motive" stand.

Photo:

From noise reduction through energy efficiency to downsizing – with its manifold innovations, the new LP⁺ Generation 3 from WITTENSTEIN alpha sets new performance benchmarks in its class.

Photographs in printable quality can be downloaded from
<http://www.wittenstein.de/presse.html>.

WITTENSTEIN AG: Being one with the future

With around 1400 employees worldwide and sales of €197 million in 2010/11, WITTENSTEIN AG 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 eight 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 (www.wittenstein.de) is additionally represented in all the world's major technology and sales markets.

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