



WITTENSTEIN at SPS 2025: Shaping the world of cybertronic motion

“Shaping the world of cybertronic motion” will be the WITTENSTEIN group’s motto at SPS 2025 in Nuremberg (Hall 4, Stand 4-221) from November 25 to 27, 2025, where it will be exhibiting mechatronic and digital innovations to move and inspire.

The WITTENSTEIN group, with core competencies in the field of mechatronic and cybertronic drive technology, will present innovative solution packages ranging from drive, measurement and control technology to software. The mechatronic products and systems chosen for the exhibition, which are in effect cybertronic products due to their integrated electronics, sensors and firmware, are at the forefront of technology. They achieve new levels of performance and can analyze and optimize operating behavior using Smart Services. At SPS 2025, WITTENSTEIN will once again demonstrate just how multi-faceted and sophisticated motion can be when it is automated and digitalized.

Understanding utilization and extending service life with the new “utilization radar” analysis tool

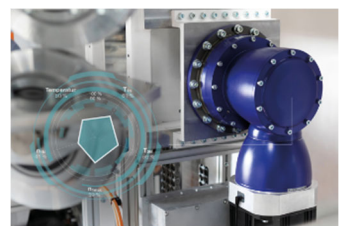
WITTENSTEIN alpha introduces the new “utilization radar” feature in the Smart Service cynapse® Analyze – Health Index. This analysis tool provides information on critical gearbox operating states, with the aim of achieving and extending gearbox service life and optimizing operating points based on the collected data. The utilization radar is also of particular interest for machines with varying load profiles, high-availability systems in continuous operation, applications with high dynamics and use scenarios involving gearboxes that are hard to access or result in high maintenance costs for other reasons.

cyber® dynamic line redefined: New size 60 and technical upgrade for servo motors

The new size 60 servo motors from the cyber® dynamic line are set to extend the current range of the small servo drive system from WITTENSTEIN cyber motor. At the same time, the entire series of high power density motors will benefit from a technical upgrade

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



Smart Service cynapse® Analyze – Health Index with new “utilization radar” feature

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covering several aspects: additional cable solutions with 90° radial outlet for space-saving and flexible installation, new encoder and brake options, plus an extended choice of cables for applications with drag chains or torsional loads. This modular expansion gives design engineers even more freedom for implementing sophisticated machine concepts that are tailored to specific applications.

New sizes of frameless motors in the cyber® kit line medium

In further news, two new sizes – 130 and 155 – have been added to the frameless motor range in the cyber® kit line medium series from WITTENSTEIN cyber motor. The two servo motors are available with both a small and a large hollow shaft, and are suitable for various lengths. With its compact, torque-optimized motors, the expanded cyber® kit line family now offers even greater scope for devising drive solutions in typical applications such as robotics, machine tools, packaging technology and actuators.

Expanded portfolio: Modular linear motors with high dynamics and force density

With its acquisition of a long-established Czech manufacturer in 2024, WITTENSTEIN cyber motor has expanded its portfolio to include adaptable drive solutions – including rotary and linear servo motors and servo actuators – and in particular the iron-core linear motors from the cyber® linear motor L3S/L3SK product line. Both the air-cooled L3S motors and the liquid-cooled L3SK versions are equally suitable for use in highly dynamic applications and tasks in which extremely high dynamics or kinematics with short strokes and large numbers of cycles have to be reliably mastered.

Galaxie®: Leading in performance and safety

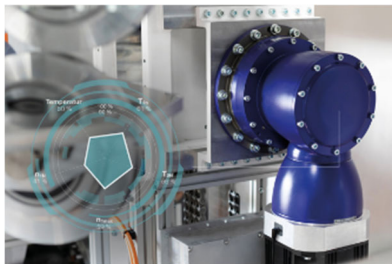
WITTENSTEIN galaxie presents its zero-backlash Galaxie® drive systems with outer diameters ranging from 90 to 300 mm, for innovative solutions aimed specifically at high performance engineering and precision and medical robotics. Their impressive features include extreme torque density, torsional rigidity, low synchronization error, positioning accuracy and absolutely zero backlash.

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Picture: (Source: WITTENSTEIN SE)



01-WSE-Health-Index-Utilization-Radar: The Smart Services cynapse® Analyze – Health Index tool with its new “utilization radar” feature provides information on gearbox operating states, with the aim of achieving and extending their service life.

Texts and photographs in printable quality can be downloaded from <https://www.wittenstein.de/en-en/company/press/>

WITTENSTEIN – one with the future

With around 2900 employees worldwide and sales of €526 million in 2024/25, WITTENSTEIN SE enjoys an impeccable reputation for innovation, precision and excellence in the field of cybertronic motion – not just in Germany but internationally. The group possesses exceptional expertise for the mastery and further development of all technologies relevant to mechatronic drives and comprises six innovative Strategic Business Divisions. We develop, produce and sell products such as high-precision servo drives and linear systems, servo systems and motors as well as cybertronic drive systems for many areas of application including machine and plant construction, aerospace or oil and gas exploration. Nanotechnology and software components round off the portfolio. With 25 sites in more than 45 countries, the WITTENSTEIN group (www.wittenstein.de) is represented in all major technology and sales markets.

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