



WITTENSTEIN at SPS IPC Drives 2012

October 22, 2012

A perfect match: two top players – the ideal team

cyber dynamic line of brushless DC motors and simco drive smart servo amplifiers

At the SPS IPC Drives exhibition from November 27 to 29, WITTENSTEIN AG will once again show an array of innovative new and optimized products. Four Business Units will be represented at the Group's Stand 221 in Hall 4:

WITTENSTEIN alpha GmbH – Specialist for precise driving, operating and controlling

WITTENSTEIN cyber motor GmbH – Leader for dynamic AC servo motors and actuator systems

WITTENSTEIN motion control GmbH – Partner for integrated rotary and linear servo systems

WITTENSTEIN electronics GmbH – Intelligent electronic and software components for mechatronic and drive technologies

Among the numerous innovative exhibits, the double première of a new servo amplifier series and a new family of brushless DC motors will be a particular highlight.

simco drive: Innovative, smart servo amplifiers

The "simco drive" series was specially developed by WITTENSTEIN motion control for electronically commutated (EC) servo motors with up to 500 W continuous power and 1 kW peak power. Designed with IP65 protection, these amplifiers can be installed in the field at distributed locations, i.e. directly adjacent to the actuators. This not only means far less wiring compared to centrally arranged servo amplifiers; it also allows the entire actuator solution to be flexibly integrated into the architecture of a wide range of machines. The operating personnel are guided by an intuitive graphical user interface whenever the machine is started up, diagnosed or serviced, enabling integration or maintenance work to be completed very efficiently in minimal time. simco drives offer maximum openness

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.

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and flexibility when data is transferred to the control level or when communicating with the actuators. Depending on the version, fieldbus integration can be realized using CANopen or EtherCAT interfaces – with a choice between ENDAT 2.2, BiSS C or resolver, STO (Safe Torque Off) to SIL2, high resolution current control and event logging with a real-time clock for the encoder interfaces.

cyber dynamic line: More than just a brushless DC motor

cyber dynamic line is a new family of brushless DC motors with a 17, 22, 32 or 40 mm diameter that enlarges WITTENSTEIN cyber motor's portfolio of three-phase permanent magnet synchronous motors. This electronically commutated motor series, which was designed for performance ranges between 25 and 335 W, creates new opportunities for machine design with a set of advanced and innovative features. Thanks to the high dynamic factor, it achieves higher acceleration values as a starting point for correspondingly higher throughputs and cycle rates. Another advantage of the motors in the cyber dynamic line is their high torque constant. All motors in the series have a magnetic encoder with a resolution of 1024 increments and an open BiSS interface as standard.

Precise traversing and positioning tasks at high speeds, for example in the packaging and component placement industries or in robotics and handling systems, are just one of the typical challenges mastered by the new brushless DC motors. The cyber dynamic line opens up a number of avenues to new markets. Protected by a rugged, one-piece stainless steel housing, these new motors are much more compact and lighter than rival products with comparable torque. This, and the high efficiency resulting from their optimal use of energy, paves the way for novel applications in battery powered and often mobile devices because the operating cycles between two charging processes are now considerably longer – with positive repercussions for availability. And since this high efficiency goes hand in hand with dramatically reduced heat input, measuring applications also stand to profit from cyber dynamic line motors.

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

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**WITTENSTEIN AG press briefing
at SPS IPC Drives 2012**

When? Wednesday, November 28, 2012, from 2 to 2:30 p.m.

Where? WITTENSTEIN AG, Hall 4, Stand 221

Subject: A perfect match: cyber dynamic line of brushless DC motors and simco drive smart servo amplifiers

Speakers: Dieter Uhl, Sales Engineer WITTENSTEIN cyber motor GmbH, and Siegfried Wallauer, Product Manager WITTENSTEIN motion control GmbH

WITTENSTEIN AG – being one with the future

With around 1500 employees worldwide and sales of €233 million in 2011/12, 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 (WITTENSTEIN bastian GmbH), 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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