



## **Mechatronic drive innovations:**

### **WITTENSTEIN motion control has even more power in the pipeline**

**Compact and modular design, significantly improved performance and energy efficiency and attuned to innovative, digital encoder technologies – these are the hallmarks of WITTENSTEIN motion control GmbH's latest generation of servo actuators. The brand new series will be unveiled at this year's SPS IPC Drives exhibition in Nuremberg under the heading "THE SERVO ACTUATOR" as an upcoming product to be launched in the first six months of 2015.**

It isn't just the impressive specifications – with their groundbreaking, contemporary design, these servo actuators will be a genuine eye-catcher at the WITTENSTEIN booth in Hall 4, Stand 4-221.

#### **"Factor TWICE" sets a new benchmark**

The new generation pushes back traditional power density boundaries in mechatronic drive technology: the SERVO ACTUATOR has an almost identical physical volume yet delivers up to twice as much power. It's a similar story when it comes to energy efficiency: up to 80% more torque with virtually no increase in current consumption represents another new benchmark. The actuators can still be used with the same servo amplifiers – but in future with double the output.

The SERVO ACTUATOR will be available in several sizes, probably for all torques from 60 to 2000 Nm. The reduction ratios will also cover a wide range, with the emphasis planned on preferred ratios between  $i=10$  and  $i=100$ .

#### **"Factor Innovation" – not just through digital encoder technologies**

As far as integrated encoders for transferring parameter and control data are concerned, the SERVO ACTUATOR's interface portfolio will focus on Endat 2.2, DRIVE-CLiQ and HIPERFACE® DSL, the three

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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 1800 employees. With a blend of dedication and enthusiasm, we set benchmarks – every day – worldwide.



WITTENSTEIN motion control will unveil a new generation of servo actuators at SPS IPC Drives 2014.

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digital standards that are predicted to dominate tomorrow's market. The one-cable connection with HIPERFACE® DSL technology in particular has a number of points in its favour – for example, less cable material and fewer connectors, space-saving wiring arrangements in cable carriers or bushings and weight reductions on the vertical and handling axes.

By rating these products for 750 V DC bus voltage, WITTENSTEIN motion control moreover mirrors the trend towards higher servo amplifier speeds with the same torque as a strategy for further increasing performance.

The design of the new SERVO ACTUATOR series is innovative and future oriented – indeed, one could even say futuristic. The absolutely smooth surface with no dead spaces, the elimination of almost all visible threads and screw heads and the modern, stylish housing simultaneously mean a new benchmark in terms of look & feel.

### **“Factor S” opens the door to safety applications**

The many different aspects of safety, security and reliability in mechatronic drive technology are also systematically implemented in the new servo actuators. Amongst other things, they will have a significantly higher holding torque that is developed at 1.5 times the static torque. In addition, they will meet the requirements of relevant international standards for functional safety in conjunction with the digital encoder variants for Endat 2.2, DRIVE-CLiQ and HIPERFACE® DSL. A set of integrated safety functions, such as the availability of redundant position data, will likewise open up numerous safety applications for the SERVO ACTUATOR.

### **Photos**

WITTENSTEIN motion control GmbH's latest generation of servo actuators.

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

**WITTENSTEIN AG – one with the future**

With around 1900 employees worldwide and sales of €254 million in 2013/14, 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](http://www.wittenstein.de)) is additionally represented in all the world's major technology and sales markets.

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