



WITTENSTEIN SE at automatica 2025

Drive technology and sensors for the next revolution in robotics

Under the motto “We empower the next robotic revolution”, the WITTENSTEIN group will be presenting innovative solutions specifically for industrial and medical robotics at the upcoming automatica from June 24 to 27, 2025 in Munich (Hall 6, Booth 509). The focus there will be on backlash-free, torsionally rigid, miniaturized gearboxes and actuators from the Galaxie® product family, integration-friendly frameless motors from the cyber® kit line and the Resense GmbH joint venture’s portfolio of high-resolution HEX haptic sensors, which upgrade medical, service and industrial robots with an exceptionally precise sense of touch.

Nadine Hehn, Managing Director of WITTENSTEIN galaxie GmbH in Igersheim, has no doubt in her mind: “In the automation and robotics industry, issues like high precision and safety in medical and industrial robots will take center stage in the next few years along with miniaturization and digitalization. Our range of solutions for robotics is designed to specifically address these requirements.”

Galaxie®: Leading in performance and safety

The backlash-free Galaxie® drive systems are characterized by features such as extreme torque density, torsional rigidity and true zero backlash. The same applies to the miniaturized gearboxes and actuators: with their large hollow shaft and safety architecture, they are the perfect solution whenever maximum precision and safety are decisive, yet only limited space is available and low weight is a must – for example, in medical and precision robotics or high performance engineering.

cyber® kit line: Frameless servo motors for plug-and-play integration

High torque, small size, flexible integration – the frameless servo motors in the cyber® kit line product family leave nothing to be desired when it comes to high performance, highly integrated drive solutions for robotics. They can also be supplied with a small and a

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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.



Innovative drive technology from WITTENSTEIN – ideal for upgrading medical, service and industrial robots

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large hollow shaft – opening up countless possibilities to develop unique solutions for specific robotic applications.

HEX haptic sensors: Delicate sensitivity for medical, service and industrial robots

The haptic sensors in the HEX product family are ideal for upgrading medical, service and industrial robots with an exceptionally precise sense of touch. Developed by Resense GmbH, a WITTENSTEIN joint venture, these 6-axis force torque sensors offer high sample rates and resolutions. Objects can now be gripped as carefully as if they were raw eggs. Furthermore, the space-saving design allows integration even into compact grippers, a humanoid robot's "little finger" or surgical instruments. The hollow shaft design additionally simplifies cable and conductor feedthroughs. The HEX8, currently the world's smallest sensor of its kind, deserves special mention here.

Picture (source WITTENSTEIN SE):



wittenstein-antriebstechnik-für-robotik.jpg

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

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➤ **“Focus Healthtech” guided tour
stops off at WITTENSTEIN**

Under the motto “Focus Healthtech”, the German Engineering Federation (VDMA) will be hosting tours of automatica every day at 10.30 am, taking visitors to all the most important exhibitors and exhibits in the fields of production technology and components for medtech and/or solutions for healthcare facilities – stopping off at the WITTENSTEIN booth along the way. Click here to register: [Guided Tours: Guided walks covering selected industry solutions](#)

WITTENSTEIN – one with the future

With around 2800 employees worldwide and sales of €498 million in 2023/24, 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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