



## WITTENSTEIN at SPS 2023

September 2023

# Innovations in the cybertronic product world

**“Shaping the world of cybertronic motion” – this will be the WITTENSTEIN group’s motto when innovations from the mechatronic and cybertronic product world go on show at SPS 2023 from November 14-16, 2023 in Nuremberg (Hall 4, Stand 4-221). The latest Smart Services for gearboxes with cynapse® functionality, the precision-oriented Galaxie® accuracy line product family and the new cyber® kit line medium series of frameless motors are just a few examples.**

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

The goal: to play a key role in shaping digital transformation in drive technology and machine construction. With this in mind, WITTENSTEIN is now transferring the functionality of selected mechatronic products and systems – with integrated electronics, sensors and firmware – to cybertronic products and systems that can also communicate and interconnect with each other.



The new Galaxie® accuracy line series of gearboxes

WITTENSTEIN’s Smart Services, such as the smart Anomaly-Check function, further expand the solution space of these products and systems, providing an easy way to analyze and process machine data.

### Digitalization is so easy

Gearboxes with cynapse® functionality collect operating data independently from machines and plants and communicate it in the IIoT.

Smart Services add functionality to the cynapse® feature. The three basic functions are data collection, visualization and analysis. The core know-how that WITTENSTEIN has built up over 40 years of developing low-backlash planetary gearboxes, in combination with operating data, enables a gearbox’s condition to be computed and displayed in the Smart Services.

In the end, it’s the added value for customers that results from cynapse® and the Smart Services that is the decisive factor. Condition monitoring and predictive maintenance help to avoid failures or detect anomalies before it’s too late.

### WITTENSTEIN SE

Walter-Wittenstein-Str. 1  
97999 Igersheim · Germany

**Contact: Sabine Maier**  
Press Officer  
Phone +49 7931 493-10399  
Email [sabine.maier@wittenstein.de](mailto:sabine.maier@wittenstein.de)  
[www.wittenstein.de](http://www.wittenstein.de)

## **Galaxie® gearbox: Portfolio expanded and restructured with “accuracy line” and “robustness line”**

The upcoming exhibition will simultaneously mark the “product premiere” of the Galaxie® gearboxes in the “accuracy line” series. The kinematics, bearing, ratios and even larger hollow shaft diameters were specifically designed to meet the requirements of high-precision applications. The series additionally includes miniaturized gearbox variants that are installation-compatible with strain wave gearboxes in terms of dimensions. The new series is available in five different sizes and rated for maximum torques of 150 Nm to 6000 Nm.

To coincide with the market launch of the Galaxie® accuracy line, the proven variants of the Galaxie® gearbox have been united in the Galaxie® “robustness line” series. They share the same nominal torque, outer diameter and torsional rigidity values, but with their better overload capacity and more robust bearings they are targeted at applications with higher mechanical requirements.

Both product lines come in several product variants – flange, hollow shaft and right-angle gearboxes as well as compact servo actuators. All Galaxie® gearboxes have identical DNA: with their zero backlash, maximum torsional rigidity, high torque density, extremely smooth running and large hollow shaft, they set the standard in the market for precision gearboxes.

## **Frameless servo motor family expanded with cyber® kit line medium**

The cyber® kit line product family has just gained a new member: this frameless motor series has been expanded with the new cyber® kit line medium in sizes 100 and 112. These torque-optimized, highly integrated motors score with their compact design and high torque density. Versions with either a small or a large hollow shaft are available. The modular toolkit provides enormous design flexibility with different sizes, lengths and voltage classes for 60 V and 600 V applications. The motor series is moreover compatible with the cyber® simco® drive 2 servo drive.

As highly dynamic drive solutions, these rugged frameless motors have proven themselves in robotics, machine tools, actuators,

---

### **WITTENSTEIN SE**

Walter-Wittenstein-Str. 1  
97999 Igersheim · Germany

**Contact: Sabine Maier**  
Press Officer  
Phone +49 7931 493-10399  
Email [sabine.maier@wittenstein.de](mailto:sabine.maier@wittenstein.de)  
[www.wittenstein.de](http://www.wittenstein.de)

testing and measurement technology and semiconductor manufacturing, amongst others.

The new cyber® kit line medium is the perfect complement to the successful cyber® kit line small and large series.

**Picture (source: WITTENSTEIN SE)**



**wittenstein-galaxie-product-family-accuracy-line**

Galaxie® accuracy line: New Galaxie® gearbox series with 4 product variants

Texts and photographs in printable quality can be downloaded from [presse.wittenstein.de](https://presse.wittenstein.de)

**WITTENSTEIN – one with the future**

With around 2900 employees worldwide and sales of €519 million in 2022/23, 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](http://www.wittenstein.de)) is represented in all major technology and sales markets.

---

**WITTENSTEIN SE**

Walter-Wittenstein-Str. 1  
97999 Igersheim · Germany

**Contact: Sabine Maier**  
Press Officer  
Phone +49 7931 493-10399  
Email [sabine.maier@wittenstein.de](mailto:sabine.maier@wittenstein.de)  
[www.wittenstein.de](http://www.wittenstein.de)