



Faster development, faster to market:

WITTENSTEIN goes CADENAS...

... with a new addition to the cyber® simco® line toolkit for servo systems

At the SPS 2022 trade fair from November 8 to 10 in Nuremberg, WITTENSTEIN cyber motor (Hall 4, Stand 4-221) will be presenting new services and products for all aspects of the company's servo solutions. For example, selected products from the standard portfolio are now integrated in CADENAS, the electronic product catalog. Worldwide, around 15 million users in the machine and plant engineering industry thus have access to up-to-date 2D and 3D CAD models, CAE models and 3D PDF data sheets for WITTENSTEIN servo solutions at any time. Among other things, these include the cyber® simco® drive 2 (SIM2100), the new servo drive variant which is ideal for mobile applications thanks to optimized performance parameters and enhanced safety features. The cyber® distribution box – a distribution module for cost-efficient wiring of decentralized drives – is another addition to the portfolio of industrial servo solutions.

The integration in CADENAS, the cyber® simco® drive 2 (SIM2100) servo drive variant – now with optimized performance and safety features – and the cyber® distribution box underline WITTENSTEIN's commitment to "efficiency engineering" at all levels. The aim is to excite customers and users again and again and to offer them the greatest possible, measurable benefit.

**Servo solutions in CADENAS, the electronic product catalog:
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By integrating selected products from the standard portfolio into CADENAS, WITTENSTEIN provides users in the machine and plant engineering industry with comprehensive, complete, up-to-date and instantly retrievable technical product data via PARTcommunity, the globally known and established portal, as well as 3Dfindit.com, the new visual search engine. This means an enormous time saving for users of all kinds – developers, mechanical & electrical designers

November 8, 2022

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



Our highlights at SPS 2022: The new servo drive variant cyber® simco® drive 2 for mobile applications (AGV) and the cyber® distribution box for decentralized machine construction

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and project planners – because the data from the 2D and 3D CAD models, CAE models and 3D PDF data sheets is available in about 150 native and neutral CAD formats, putting an end to hours of painstaking research and time-consuming queries, requests for information or converting from generic formats. The electronic product data can be imported directly into numerous design tools without media gaps. What's more, easy-to-understand input and output parameters simplify access to WITTENSTEIN products in CADENAS and help select relevant technical data for a specific servo solution. All of this adds up to more speed during the design process – and faster development also means faster to market.

cyber® simco® drive 2 (SIM2100): The servo drive for more performance and safety in mobile applications

The SIM2100 is WITTENSTEIN cyber motor's new output variant in the cyber® simco® drive 2 product family. The device has IP65 protection and is designed for mobile applications in the fields of intralogistics, assembly and automation. It meets the requirements of autonomous and flexible transport systems from 500 kg to 2 tons, as reflected by its performance data – including an input voltage range from 12 to 60 VDC, continuous current of 100 A and a maximum current of 200 A. This servo drive is suitable for controlling both differential and steering units. It provides extensive safety features, for example Safe Torque Off (STO) to SIL 3 / PL e is integrated as standard. As an option, users can equip their servo drive with a safety board with enhanced safety features. Safe Brake Control (SBC) to SIL3 / PL e and Safe Position (SP) via EnDat FS to SIL3 / PL d are available in the device on request to enable safe speed, position and brake monitoring – as is a safety encoder emulation with a 1 Vpp signal up to SIL2 / PL d. No other safety-relevant components are required and wiring is greatly simplified. In practice, the cyber® simco® drive 2 also impresses with an integration-friendly design. The servo drive can be mounted in any position as well as – thanks to the IP65 protection – close to the drives, with only minimal effort necessary for wiring. All M12 industrial connectors are readily accessible on the front. The multi-Ethernet interface ensures simple and fast integration into different control worlds. An electronic identification plate and several encoder interfaces moreover allow easy integration of permanent magnet synchronous servo motors and actuators.

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cyber® distribution box: Distribution module for decentralized drive axes

The new cyber® distribution box for applications with protective extra-low voltage is another addition to the cyber® simco® line toolkit. This distribution module enables low-effort, cost-efficient wiring of up to six axes in decentralized machines with a large number of distributed servo axes. More axes can be connected if necessary by adding more distribution boxes instead of drives; this cascade capability allows simple topologies to be achieved even in complex machines. The cyber® distribution box has two I/O ports for connecting an Ethernet-based fieldbus; if multiple distribution modules are cascaded, the fieldbus can be looped through via a daisy chain. Furthermore, each distribution box has six outputs for 12 to 60 VDC input voltage, which are ideal for connecting either decentralized cyber® simco® drive 2 servo drives or the servo drive system cyber® dynamic system. Owing to the IP65 protection, the distribution module integrates directly into the machine layout, saving space in the control cabinet and reducing the need for cooling. The cyber® distribution box is typically used in filling lines with servo-driven filling valves, in packaging machines with servo motors for automated format or valve adjustment, in servo-driven dosing, filling and gluing systems or in servo-electric positioners and grippers.

Pictures: (sources for photos: WITTENSTEIN SE)



1. Technical product data for WITTENSTEIN servo solutions is now available in CADENAS. Developers, mechanical & electrical designers and project planners can profit from 3D CAD and CAE models as well as dimension and data sheets. For more speed, simplicity and choice during the design process.

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2. cyber® simco® drive 2 (SIM2100): The perfect solution for mobile applications (AGV) with IP65 protection



3. cyber® simco® drive 2 (SIM2100): The new variant with significantly higher output (5 kW continuous and 10 kW peak) as well as integrated safety features such as STO, SBC, SP and a safety encoder emulation



4. The cyber® simco® line toolkit for servo systems: For use in the control cabinet or in decentralized arrangements for mounting close to the drives

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5. cyber® distribution box: Simplifies wiring of decentralized drive systems



6. Our highlights at SPS: The new servo drive variant cyber® simco® drive 2 (SIM2100) for mobile applications (AGV) and the cyber® distribution box for decentralized machine construction

Texts and photographs in printable quality can be downloaded from presse.wittenstein.de

WITTENSTEIN – one with the future

With around 2800 employees worldwide and sales of €461 million in 2021/22, 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. These 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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