



## Frameless servo motors enable customized OEM drive solutions

**WITTENSTEIN cyber motor GmbH has just announced a new product family of frameless servo motors – cyber® kit line small – that provides countless innovative design options for drive solutions in OEM machines. The frameless, bearingless concept and the large number of configurable variants give users maximum flexibility when designing a machine. The compact dimensions and reduced mass of the cyber® kit line small ensure exceptionally high power density. The torque-optimized motor design with best-in-class performance data supports space-saving drive technology where high dynamics are a must, for example in combination with WITTENSTEIN cyber motor's new cyber® simco® drive 2 drive family with a Multi-Ethernet-Interface.**

Thanks to the special design of the stators – 24 individual teeth which are bent into a round shape and sealed with a high copper fill factor – the servo motors in the cyber® kit line small achieve continuous torques more than ten percent better than any other comparable motor available in the market. For many users, this represents a real revolution. The same applies to the specified speeds: with up to 8000 rpm, they set benchmarks in terms of dynamics for a servo motor of this type.

Yet another significant differentiator of these frameless motors is the large hollow shaft, which greatly simplifies the design in robot axes and other applications where space is a critical factor. Cable, compressed air, vacuum, fiber optic and laser feedthroughs for gripping elements or sensors, among others, can be safely implemented in a small space in this way. It is also possible to integrate a screw into the hollow shaft in order to reduce the actuator's overall length.

### Modular principle ensures efficient drive solutions

The new cyber® kit line small comprises two sizes with 50 mm and 85 mm outer diameter, each offered in three lengths, as well as two

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



The new frameless servo motors in WITTENSTEIN's cyber® kit line small

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voltage classes (60 V and 600 V) and two hollow shaft versions of different sizes. Furthermore, the integrated temperature sensors (PTC and PT1000) and the optional Hall sensor open up numerous possibilities when it comes to connectivity. Users profit from a variety of combination options plus efficient, single-source drive solutions – in collaborative or industrial robotics, packaging and textile machinery, machine tools or assembly and production machines.

- More information on the planned market launch is available from WITTENSTEIN cyber motor GmbH on request

**Picture:**



**wittenstein-cyber-kit-line-small.jpg**

The new frameless servo motors in WITTENSTEIN's cyber® kit line small provide countless technical design options for customized servo drive solutions, for example in collaborative or industrial robotics, packaging and textile machinery, machine tools or assembly and production machines. (Photo: WITTENSTEIN SE)

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

**WITTENSTEIN – one with the future**

With around 2900 employees worldwide and sales of €426.6 million in 2019/20, 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.

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