



cyber® kit line medium – modular frameless motors directly integrated in the machine

The new cyber® kit line medium from WITTENSTEIN cyber motor rounds off a cohesive portfolio of frameless, torque-optimized servo motors in integration-friendly designs. These new frameless motors are available in compact sizes with an outer diameter of 100 mm or 112 mm – as well as in three different lengths, namely 30 mm, 60 mm and 120 mm. A PT1000 and a PTC temperature sensor are integrated every time, to protect against thermal overload and enable constant monitoring of the drive temperature. The modular motor system also provides enormous design flexibility due to the choice between small or large hollow shafts as well as voltage classes for 60 VDC and 600 VDC / 750 VDC. Furthermore, the cyber® kit line medium is compatible not only with WITTENSTEIN cyber motor's cyber® simco® drive 2 servo drive but also with other standard servo drives worldwide.

The modularly configurable frameless motors in the cyber® kit line medium series are optimally adaptable to specific tasks and operating conditions owing to the large number of possible variants. This opens up numerous innovative design options for highly dynamic drive solutions in OEM machines.

cyber® kit line medium bridges the performance gap in a range of applications

The motors, which can also be used as direct drives, are both frameless and bearingless. With their compact dimensions and reduced weight, they are just perfect for direct, space-saving integration into machines. Thanks to the hollow-shaft concept cable, compressed air, vacuum, fiber optic and laser feedthroughs for gripping elements or sensors, among others, can be elegantly implemented when only limited space is available. The frameless servo motors are no less impressive in use, setting benchmarks in terms of torque density and dynamics.

As far as performance is concerned, the cyber® kit line medium bridges the gap very neatly between the successful cyber® kit line small and cyber® kit line large series of frameless motors. Collaborative and industrial robotics, machine tools, packaging

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



The new cyber® kit line medium:
Frameless servo motors from
WITTENSTEIN cyber motor

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technology, actuators for assembly, transfer and handling systems, testing and measuring machines or tasks in semiconductor manufacturing are typical applications for these highly dynamic and robust servo motors.

New encoder module for cyber® kit line small

WITTENSTEIN has simultaneously introduced a new encoder module for the cyber® kit line small that can be built in as an option for four different feedback signals.

It provides >16 bit system accuracy as well as repeatability of $\pm 0.1^\circ$ and ships in two versions: either with BiSS-C and SSI interfaces or for incremental and Hall signals. In combination with the cyber® simco® drive 2 servo drive, the frameless motors in the smallest series with an integrated encoder module are the perfect system solution for 48 VDC applications.

SPS 2023: WITTENSTEIN to show innovations from the mechatronic and cybertronic product worlds

WITTENSTEIN will be showing both of these innovations – the new cyber® kit line medium and the new encoder module for the cyber® kit line small – at the SPS 2023 trade fair (Hall 4, Stand 4-221) under the motto “Shaping the world of cybertronic motion”. Smart Services for gearboxes with cynapse® functionality as well as the precision-oriented “Galaxie® accuracy line” product family will likewise be among the exhibits.

Links to further information:

<https://cyber-motor.wittenstein.de/en-en/products/cyber-kit-line-medium-frameless-servo-motors/>

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Pictures (source: WITTENSTEIN SE)



01_WSE_cyber_kit_line_medium_100_112: cyber® kit line medium: Frameless servo motors from WITTENSTEIN cyber motor in 100 mm or 112 mm sizes and with a small or large hollow shaft



02_WSE_cyber_kit_line_medium_family: Available in various lengths, these frameless motors are the ideal solution, e.g. for robotic applications, machine tools, packaging technology and actuators for assembly, transfer and handling systems.

Texts and photographs in printable quality can be downloaded from 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) is represented in all major technology and sales markets.

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