WITTENSTEIN | cyber motor

Small servo drive system setting new standards

connective
dynamic
compact

A plus in performance:

small servo drive system redefined.

Compactness

Motor and servo drives combinations for space-saving drive solutions in control cabinets and decentralized applications

Connectivity

Multi-Ethernet version for maximum flexibility and a variety of real-time capable fieldbus interfaces

Flexibility

Modular principle enables solutions for a wide range of applications

Precision

Outstanding high-precision control thanks to the use of absolute encoders with a resolution of 12 bits in conjunction with a high current resolution of 14 bits

Dynamics

Realization of short cycle times thanks to inertia-optimized motors, decentralized control intelligence and high overload capability

Nearly endless possibilities

The new generation of WITTENSTEIN cyber motor's industrial small servo drive system guarantees a plus in performance in terms of connectivity, compactness and configurability:

The highlight is the cyber® dynamic line servo motors in the new 60 mm size for highly dynamic and precise motion. At the same time, the entire motor family with high power density receives multiple technical upgrades: additional cable solutions with a 90° radial outlet for space-saving installations, new encoder and brake options, as well as an extended cable selection for applications with cable carriers or torsional stress. Optionally, the motors can be equipped with holding brakes, planetary gearboxes or spindles. The compact and connected cyber® simco® drive 2 servo drives impress with CIP Sync real-time functionality and STO safety features. In addition, the motor-integrated version cyber® dynamic system stands out with its decentralized intelligence directly at the axis, helping to save space in the control cabinet.

This creates new freedom in your machine design.

Discover more about the new generation of the small servo drive system.

Interfaces

5 Fieldbus interfaces

CANopen

EtherNet/IP

CIP Sync

sercos the automation bus

EtherCAT Technology Group

PROFINET

1 Industry 4.0 interface

OPC FOUNDATION

Accessories

cyber® power supply

24-55 V_{DC}

120-1440 W

1-/3-phase power supply

cyber® distribution box

Distribution box up to 6 axes

IP65

cyber® simco® line

4 Performance classes

750 W – 10 kW

2 Designs

IP20

IP65

6 Encoder interfaces

EnDat 2.2	BISS C
SSI	Resolver
SIN/COS	Incremental (SIM2050/ SIM2100)

cyber® dynamic line

5 Sizes

17–60 mm

3 Designs

Standard Design

Inox Design

Hygienic Design (sizes 40/60)

3 Encoders

Incremental encoder

Absolute encoder Singleturn

Absolute encoder Multiturn (sizes 32/40/60)

cyber® dynamic system

1 Drive system

IP65

300 W

Motor size 40

2 Encoders

Absolute encoder Singleturn

Absolute encoder Multiturn

Options

2 Planetary gearboxes

GCP-Gearbox 1–3-stage

NP-Gearbox 1–2-stage

4 Linear drive units

Ball screw drive (short and long stroke) (sizes 17-40)

1 Brake

Holding brake (sizes 40/60)

Excellent solutions for complex motion tasks

Bonding and Dispensing

Brushless servo motors with the highest reliability for challenging and precise bonding and dispensing systems.

Positioning

Highly dynamic and precise positioning of sensitive components.

Filling

Precise filling with servo motor-controlled filling valves through flexible control of the filling volume.

Gripping

Servo electric grippers with high power density and minimal weight for sophisticated pick & place applications.

Measuring and Testing

Low-noise and reliable drives for innovative measurement and testing solutions to set industrial standards.

Discover the WITTENSTEIN Service Portal for yourself

The WITTENSTEIN Service Portal supports you throughout the entire life cycle of your WITTENSTEIN product – from installation to drive replacement. You will receive the relevant and current product information and documentation for your product, as well as a dedicated point of contact.

www.wittenstein.de/service-portal-en

WITTENSTEIN | cyber motor

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WITTENSTEIN – one with the future

www.wittenstein-cyber-motor.de

Broschure_WCM-Small_servo_drive_system_en_2025_I Subject to changes!