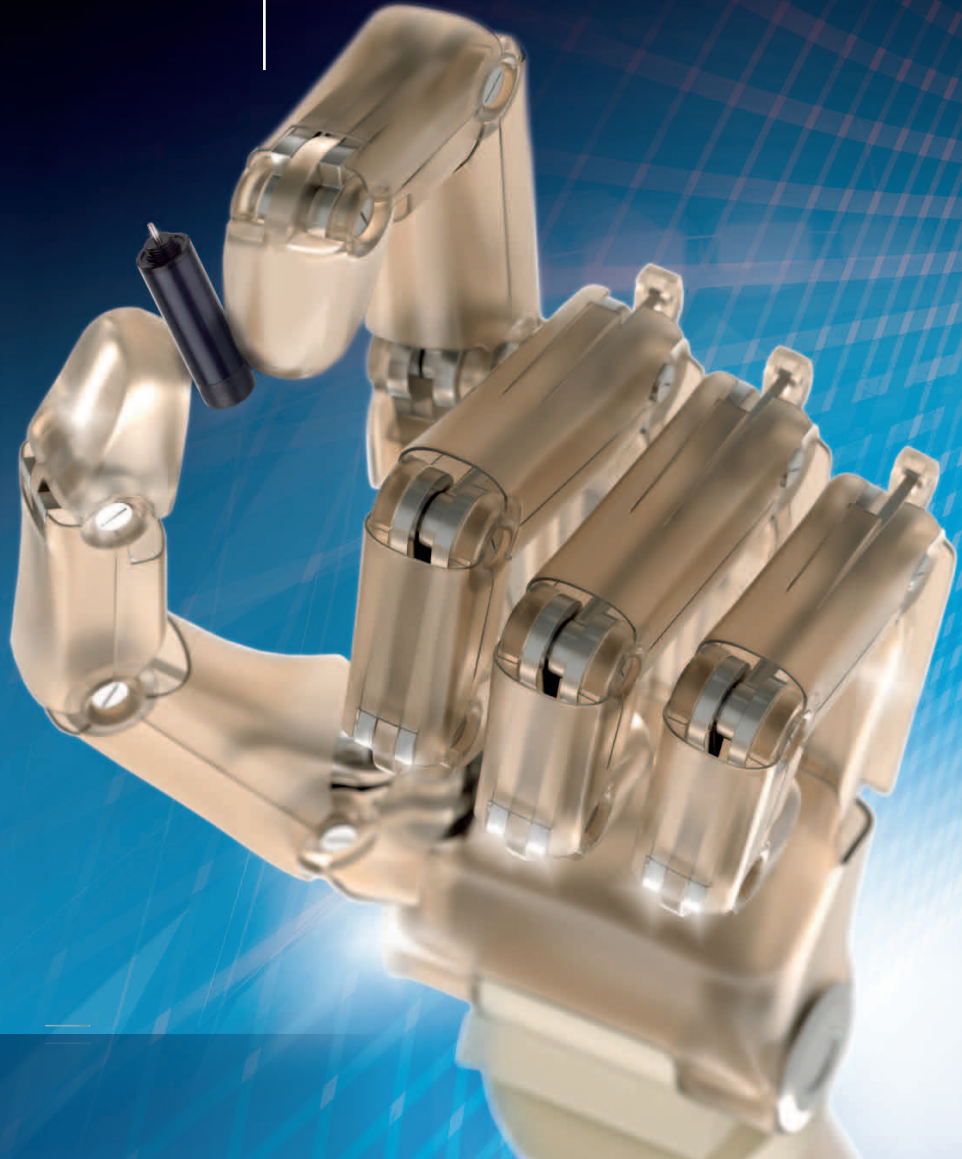


NEW

Highest Performance in the smallest size

Brushless DC-Servomotors
Series 0824... B
Series 1028... B



Use in demanding applications

Optics and Photonics

Optical and photonic motion applications such as zoom and focus or the alignment of optical filters or mirrors in laser systems require ever increasing precision ever shrinking dimensions. These miniature brushless DC servomotors with high resolution integrated encoders, combined with high precision zero backlash gearheads provide unsurpassed precision and resolution in the smallest possible package.



Medical Devices

High reliability, quality, and performance are key for applications in the field of medical device technology. FAULHABER drive systems are proven solutions for a wide range of applications in these fields such as high-tech prosthetics, portable drug delivery devices, micro-dosing pumps, ultrasound diagnostic technology and surgical robotics for minimally invasive procedures.



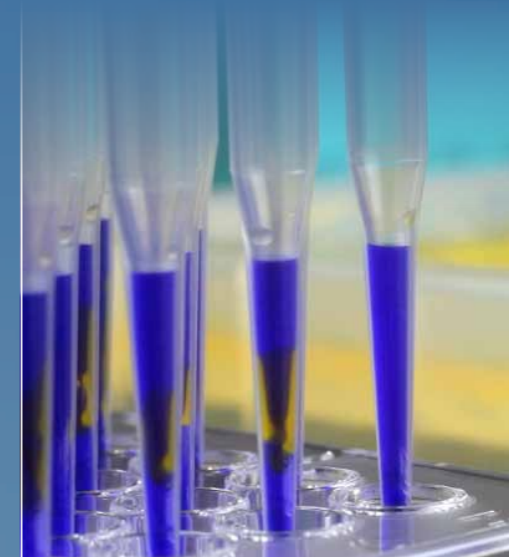
Automation and Robotics

FAULHABER provides the most flexible portfolio of miniature motors for automation and robotics available in the industry today. These new brushless DC servomotors are light, robust, and compact and provide dynamic, precise, repeatable performance for applications in industrial automation such as SMD pick and place machines, handling equipment like an industrial electric gripper or high precision humanoid robotics.



Laboratory Automation

Automated laboratory analysis equipment is being pushed to new levels of testing accuracy and output every day. New areas of testing with ever increasing demands require smaller and more powerful brushless DC servomotors. Whether for precision dosing systems, miniature handling devices, conveyor systems, or x-y positioning stages, FAULHABER has the right combination of small size and highly dynamic performance.



The complete System Performance

NEW Brushless DC-Servomotors

Series 0824 ... B

Series 1028 ... B

- Compact dimensions of 8 or 10 mm motor diameter and 24 or 28 mm length with very low weight
- High continuous output torque of up to 1,1 or 2,1 mNm and a flat slope of the n/M curve
- Factory configurable with or without high resolution encoder without additional costs

Technical Data	
Motor diameter	8 / 10 mm
Motor length	24 / 28 mm
Nominal voltage	6 / 12 V
Speed	up to 85 000 rpm
Continuous output torque	1,1 / 2,1 mNm



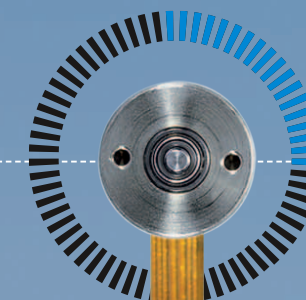
NEW Encoder

Series IEM3-1024 Incremental Encoder

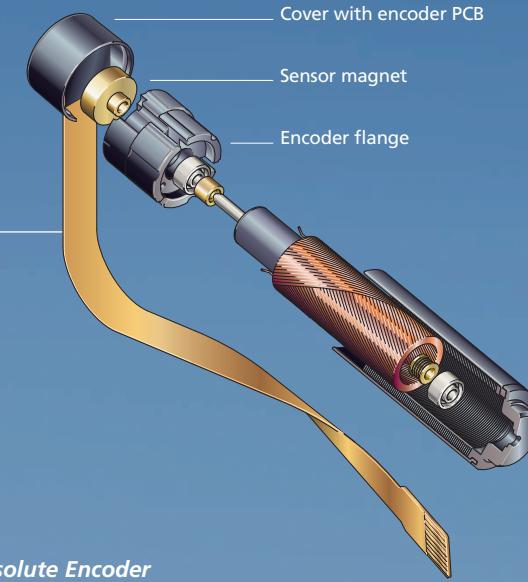
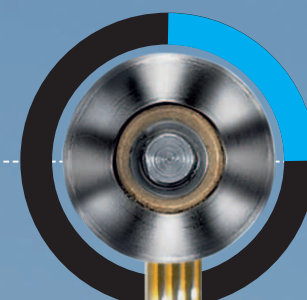
Series AESM-4096 Absolute Encoder

- Available as integrated incremental 3 channel encoder with a resolution of up to 1024 pulses per revolution or as 12 Bit (4096 steps) single turn absolute encoder
- Connection of power supply for encoder and motor as well as the output signals via flexboard

Incremental Encoder



Absolute Encoder



Gearheads

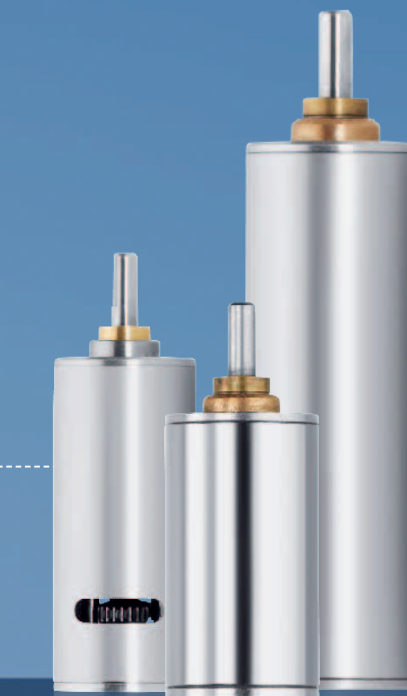
for Series 0824 ... B

- 08/1 Planetary
- 08/3 Spur, zero backlash
- 08/2 Spur

for Series 1028 ... B

- 10/1 Planetary
- 12/4 Planetary
- 12/3 Spur
- 12/5 Spur, zero backlash

- Wide variety of reduction ratios
- Available with different shaft bearings including sintered, ceramic, and ball bearings
- Modified versions for extended temperature and special environmental conditions on request
- Zero backlash versions for precise positioning applications



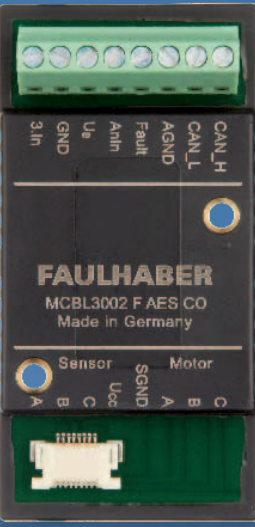
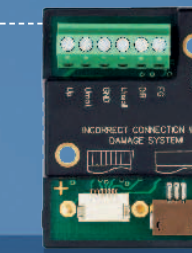
Controllers

Speed Controller Series SC 1801

- Highly dynamic speed controllers, optimized for the operation of DC and brushless motors
- Compact dimensions
- Flexible reconfiguration
- Plug-and-play connection in the motor version with absolute encoder

Motion Controller Series MCBL3002

- Free selectable operating mode for 2 pole or 4 pole brushless drives
- Controlled via RS232 or CAN interface
- Available with housing or as PCB version
- Comfortable programming of the Speed and Motion Controllers with the FAULHABER Motion Manager Software 5



CANopen

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