

NEWSPACE MARKET · COMPANY PROFILE



FAULHABER Drive Systems

Germany · faulhaber.com/en

47

PRODUCTS

43

WITH DATASHEETS

newspacemarket.com/companies/faulhaber-drive-systems/

as of 27 August 2026



FAULHABER Drive Systems

FAULHABER Drive Systems manufactures DC-Motors, Brushless DC-Motors, Motors with integrated Electronics, Stepper Motors, Linear Motors, Precision Gearheads, Linear Actuators, Encoders, and Drive Electronics. They also provide accessories such as Brakes, Braking chopper, and Electronic Filters.

This profile is generated from the live NewSpace Market catalogue. Specifications are as published by the manufacturer; every product links to a page where a request for quotation reaches the company directly.

PRODUCTS

Product catalogue



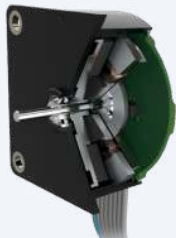
FAULHABER DRIVE SYSTEMS

Absolute Encoders

FAULHABER Absolute Encoders provide precise position feedback for demanding applications in space exploration and satellite systems.

Interface	SSI with BISS-C Protocol
Clock speed	up to 2 MHz
Line Driver	TIA-422 compatible

price on request [datasheet](#)

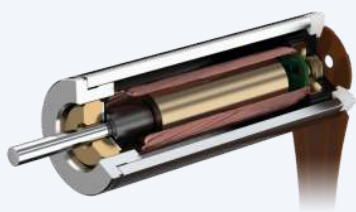


FAULHABER DRIVE SYSTEMS

B-Flat

The FAULHABER B-Flat series offers brushless DC motors with a flat design, ideal for applications requiring compact and powerful drive systems in space and other demanding environm

price on request [datasheet](#)



FAULHABER DRIVE SYSTEMS

B-Micro Brushless DC-Servomotors

FAULHABER B-Micro brushless DC-servomotors offer high performance in a compact design, ideal for demanding space applications requiring precision and reliability.

Nominal voltage	UN
Terminal resistance, phase-phase	R ± 12 %
Efficiency, max.	Kmax.
No-load speed	n0 ± 12 %
Stall torque	MH
Friction torque, static	C0
Operating temperature range	[°C]

[price on request](#) [datasheet](#)



FAULHABER DRIVE SYSTEMS

Braking chopper

The FAULHABER braking chopper is an accessory designed to limit the supply voltage in drive systems, ensuring safe and efficient operation.

[price on request](#) [datasheet](#)



FAULHABER DRIVE SYSTEMS

Brushed DC Motors

FAULHABER's brushed DC motors feature innovative winding technology, offering high performance and reliability for various applications, including those in aerospace and aviation.

Operating temperature	-30 ... +85 °C (optional ve
Winding, max. permissible	+125 °C
Speed up to nmax.	12000 min-1
Number of pole pairs	1
Mass	19 g
Housing material	steel, nickel plated
Magnet material	NdFeB

[price on request](#) [datasheet](#)



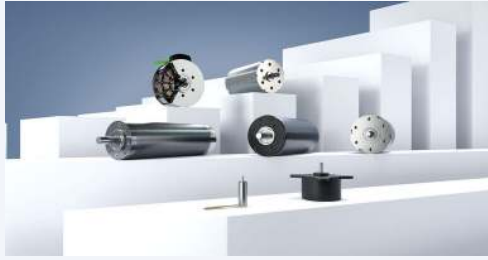
FAULHABER DRIVE SYSTEMS

Brushless DC-motor with integrated Motion Controller | MCS

The FAULHABER MCS is a brushless DC motor with an integrated motion controller, offering a compact and efficient solution for various applications.

Motor diameter	15 ... 31 mm
Motor length	25 ... 53 mm
Nominal voltage	6 ... 24 V
Speed	up to 25.000 min ⁻¹
Torque	up to 5.9 mNm
Continuous output	up to 17.5 W

[price on request](#) [datasheet](#)



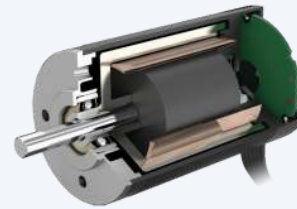
FAULHABER DRIVE SYSTEMS

Brushless DC-Motors

FAULHABER's brushless DC-motors offer high precision and dynamic performance, making them ideal for demanding applications in space exploration and satellite systems.

Hall sensors	3 discrete digital Hall sensors with a 120° phase shift
Magnet material	SmCo and NdFeB

[price on request](#) [datasheet](#)



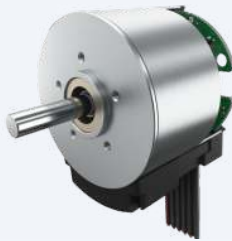
FAULHABER DRIVE SYSTEMS

Brushless DC-Motors with integrated Speed Controller | BRC

FAULHABER BRC series brushless DC-motors with integrated speed controllers offer a compact and efficient solution for various applications, including those in aerospace and aviation.

Motor diameter	15 ... 31 mm
Motor length	25 ... 53 mm
Nominal voltage	6 ... 24 V
Speed	up to 25.000 min ⁻¹
Torque	up to 5,9 mNm
Continuous output	up to 17,5 W

[price on request](#) [datasheet](#)



FAULHABER DRIVE SYSTEMS

Brushless DC-motors with integrated Speed Controller | BXT SC

The BXT SC series offers brushless DC-motors with an integrated speed controller, providing a compact and efficient solution for various applications.

Power supply for electronics	[V DC]
Power supply for motor	[V DC]
PWM switching frequency	[kHz]
Electronics efficiency	[%]
Standby current for the electronics	[A]
Speed range	[min ⁻¹]
Shaft load, max. permissible	[N]

[price on request](#) [datasheet](#)



FAULHABER DRIVE SYSTEMS

Brushless DC-servomotors 2 pole technology | FAULHABER

FAULHABER offers brushless DC-servomotors with 2-pole technology, suitable for demanding applications in aerospace and other high-precision industries.

Nominal voltage	24...48 V
Speed	up to 100.000 min ⁻¹
Torque	up to 217 mNm
Continuous output	up to 282 W
Motor diameter	6 ... 44 mm
Motor length	18 ... 90 mm

[price on request](#) [datasheet](#)



FAULHABER DRIVE SYSTEMS

Brushless DC-Servomotors 2 pole technology | FAULHABER B

FAULHABER B series brushless DC-servomotors with 2-pole technology are designed for high-performance applications in space and other demanding industries.

Nominal voltage	UN
Terminal resistance, phase-phase	R
Efficiency, max.	Kmax.
No-load speed	n0
Stall torque	MH
Friction torque, static	C0

[price on request](#) [datasheet](#)



FAULHABER DRIVE SYSTEMS

Brushless DC-servomotors 4 pole technology

FAULHABER's BX4 series of brushless DC-servomotors offers high performance and efficiency in a compact design, suitable for demanding applications including those in aerospace.

Hall sensors	3 discrete digital Hall sensors with a 120° phase shift
Magnet material	SmCo and NdFeB

[price on request](#) [datasheet](#)



FAULHABER DRIVE SYSTEMS

Brushless flat DC-Micromotors with integrated Speed Controller

FAULHABER B-Flat SC series offers compact, high-performance brushless DC-micromotors with integrated speed controllers, ideal for demanding space applications.

Power supply electronic	UP
Power supply motor	U _{mot}
Nominal voltage for motor	UN
No-load speed (at UN)	n0
Peak torque (S2 operation for max. 3s/2s)	M _{max.}
Torque constant	k _M
PWM switching frequency	f _{PWM}

[price on request](#) [datasheet](#)

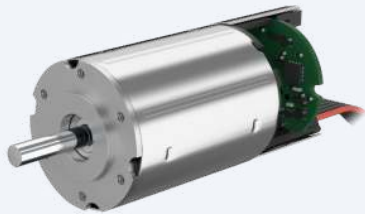


FAULHABER DRIVE SYSTEMS

BX4 IMC

Compact brushless motors with integrated Motion Controller, suitable for applications in satellites and space exploration.

[price on request](#) [datasheet](#)



FAULHABER DRIVE SYSTEMS

BX4 SC

The BX4 SC is a brushless DC-motor with an integrated speed controller, offering a compact and powerful solution for various applications.

Peak torque 17.5 mNm

[price on request](#) [datasheet](#)



FAULHABER DRIVE SYSTEMS

DC-Micromotors with graphite commutation | FAULHABER CR

FAULHABER CR series DC-Micromotors with graphite commutation offer high performance and reliability for demanding applications, including those in aerospace and aviation.

Operating temperature -30 ... +85 °C

Max winding temperature +125 °C

[price on request](#) [datasheet](#)



FAULHABER DRIVE SYSTEMS

DC-Micromotors with graphite commutation | FAULHABER CXR

The FAULHABER CXR series offers powerful and robust DC-micromotors with graphite commutation, designed for continuous operation and high performance in demanding applications.

Operational Lifetime 1000 to 5000 hours

PWM signal minimum frequency 20 kHz

[price on request](#) [datasheet](#)



FAULHABER DRIVE SYSTEMS

DC-Micromotors with precious metal commutation

FAULHABER DC-Micromotors with precious metal commutation are ideal for applications requiring high performance, reliability, and compact size, including those in aerospace and avia

Nominal voltage UN [V]

Terminal resistance R [Ω]

Rotor inductance L [μH]

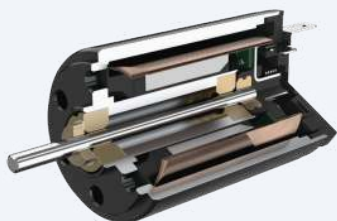
Efficiency, max. ηmax. [%]

No-load speed n0 [min-1]

Stall torque MH [mNm]

Rotor inertia J [gcm2]

[price on request](#) [datasheet](#)



FAULHABER DRIVE SYSTEMS

DC-Motors with precious metal commutation | FAULHABER SR

FAULHABER SR DC-Motors with precious metal commutation are designed for high-performance applications, offering reliability and precision.

Thermal resistance: winding to housing	11 K/W
Thermal resistance: housing to ambient (external plastic flange)	28 K/W
Thermal resistance: housing to ambient (external metal flange)	6 K/W
Thermal time constant: winding	8.1 s
Thermal time constant: housing (external plastic flange)	220 s
Thermal time constant: housing (external metal flange)	48 s
Operating temperature range	-30...+85 °C

[price on request](#) [datasheet](#)



FAULHABER DRIVE SYSTEMS

DM-Micro

Two-phase stepper motors with a magnetic disc, offering high power density and precise positioning in a compact design.

Outer diameter	6 mm
Number of steps per revolution	20
Holding torque	0.25 mNm

[price on request](#) [datasheet](#)



FAULHABER DRIVE SYSTEMS

DM-Ring

The DM-Ring is a ring stepper motor featuring a very large aperture, designed for applications requiring precise motion control in compact spaces.

Motor design	DM
Motor diameter	6 mm
Steps per revolution	20

[price on request](#) [datasheet](#)



FAULHABER DRIVE SYSTEMS

Electronic Filters

FAULHABER offers motor-side and input-side electronic filters designed to suppress electromagnetic interference (EMI) in drive systems, ensuring reliable operation in sensitive applications.

Supply voltage	0...50 V
Max. continuous power losses	100 W
Continuous output current	2 A
Operating temperature	-25...+65 °C
Storage temperature range	-25...+85 °C
Dimensions (L x W x H)	40 x 57 x 33.2 mm
Mass	37 g

[price on request](#) [datasheet](#)



FAULHABER DRIVE SYSTEMS

Encoders for DC Micro Motors

FAULHABER offers a range of incremental and absolute encoders designed for precise motion control in conjunction with DC micro motors, suitable for demanding applications including

[price on request](#)



FAULHABER DRIVE SYSTEMS

FAULHABER Accessories

FAULHABER offers a range of accessories including brakes, braking choppers, and electronic filters to complement their drive systems for various applications, including aerospace.

PWM switching frequency	96 kHz
Efficiency electronic	95 %

[price on request](#) [datasheet](#)



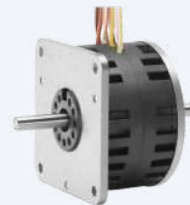
FAULHABER DRIVE SYSTEMS

FAULHABER AM

The FAULHABER AM series offers two-phase stepper motors with single magnets, providing precise positioning and high torque in a compact design, suitable for demanding applications

Number of angular degrees the motor moves per full-step	1.8 °
Max. acceleration	2000 rad/s ²
Max. operating frequency at no load	100 Hz
Thermal time constant	70 s
Max. ambient temperature	70 °C

[price on request](#) [datasheet](#)



FAULHABER DRIVE SYSTEMS

FAULHABER DM-Dynamic

The FAULHABER DM-Dynamic is a 4-coil stepper motor designed for highly dynamic movement and precise positioning in demanding applications.

Step angle (full step)	18 degree
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[price on request](#) [datasheet](#)



FAULHABER DRIVE SYSTEMS

FAULHABER GPT Planetary Gearheads

FAULHABER GPT planetary gearheads offer high torque, precision, and efficiency in a compact design, ideal for demanding space applications.

Gearhead diameter	22 ... 42 mm
Material	stainless steel
Continuous torque	0.45 ... 18 Nm
Continuous input speed	up to 15,000 min-1
Intermittent torque	0.6 ... 25 Nm
Intermittent input speed	up to 20,000 min-1
Radial load	up to 390 N

[price on request](#) [datasheet](#)



FAULHABER DRIVE SYSTEMS

FAULHABER GXR

The FAULHABER GXR series offers DC-motors with graphite commutation, providing high performance and reliability in a compact design.

Mass	19
Number of pole pairs	1
Operating temperature	-30 ... +85 °C
Operating temperature winding, max. permissible	+125 °C
Shaft bearings	sintered bearings
Shaft diameter	1,5
Radial shaft load max. dynamic at 3 000 min-1 (3 mm from bea	1,2

[price on request](#) [datasheet](#)



FAULHABER DRIVE SYSTEMS

FAULHABER SXR

DC-micromotors with innovative winding technology, suitable for demanding applications in aerospace and aviation.

Nominal voltage	UN
Terminal resistance	R [Ω]
Rotor inductance	L
Efficiency, max.	ηmax. [%]
No-load speed	n0 [min-1]
Stall torque	MH [mNm]
Rotor inertia	J [gcm2]

[price on request](#) [datasheet](#)



FAULHABER DRIVE SYSTEMS

Flat brushless motors with external rotor technology

FAULHABER's BXT series of flat brushless DC motors offers high torque in a compact design, ideal for space-constrained applications.

Tolerance for no-load speed	±12 %
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[price on request](#) [datasheet](#)



FAULHABER DRIVE SYSTEMS

Flat DC-Micromotors and DC-Gearmotors

FAULHABER flat DC-micromotors and DC-gearmotors are ideal for applications requiring high power in a compact design, offering a robust and reliable solution for various drive tasks

Thermal resistance: – winding to housing	11 K/W
Thermal resistance: – housing to ambient (external plastic f	28 K/W
Thermal resistance: – housing to ambient (external metal fla	6 K/W
Thermal time constant: – winding	8,1 s
Thermal time constant: – housing (external plastic flange)	220 s
Thermal time constant: – housing (external metal flange)	48 s
Operating temperature range	-30 ... +85 °C

[price on request](#) [datasheet](#)



FAULHABER DRIVE SYSTEMS

Geared linear actuators

FAULHABER's geared linear actuators are powerful and robust, designed for precise linear motion in demanding applications, including those in aerospace and aviation.

Continuous output speed, max	120 mm/s
Peak output speed, max	150 mm/s
Continuous input speed, max	15000 min ⁻¹
Peak input speed, max	20000 min ⁻¹
Continuous axial force, avg.	305 N
Peak axial force, dynamic, max	580 N
Peak axial force, static, max	670 N

[price on request](#) [datasheet](#)



FAULHABER DRIVE SYSTEMS

High torque brushless DC-motors 4 pole technology

FAULHABER's BP4 series offers high torque brushless DC motors with 4-pole technology, designed for demanding applications requiring high power density and reliability.

[price on request](#) [datasheet](#)



FAULHABER DRIVE SYSTEMS

Incremental Encoders

FAULHABER Incremental Encoders provide precise position and speed feedback for various drive systems, available in optical or magnetic versions.

Resolution	1024 lines per revolution
Supply voltage	5 V

[price on request](#) [datasheet](#)

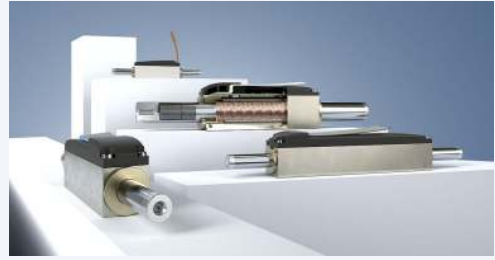


FAULHABER DRIVE SYSTEMS

Linear actuators from FAULHABER

FAULHABER offers a range of linear actuators, including geared and direct drive options, designed for very high force applications.

[price on request](#)



FAULHABER DRIVE SYSTEMS

Linear Motors

FAULHABER's compact linear motors offer high dynamics and precision, making them ideal for demanding applications in various industries, including aerospace and aviation.

Continuous force	3.6 N
Peak force	10 N
Continuous current	0.5 A
Peak current	1.6 A
Back-EMF constant	5.2 V/m/s

[price on request](#)

[datasheet](#)



FAULHABER DRIVE SYSTEMS

Linear stepper motors from FAULHABER

FAULHABER's linear stepper motors offer precise positioning and high dynamic performance, making them ideal for demanding applications in various industries, including aerospace.

Resolution	10 μm
Axial play	30 μm

[price on request](#)

[datasheet](#)



FAULHABER DRIVE SYSTEMS

Modified Drive Solutions

FAULHABER offers adaptable drive solutions tailored to specific customer requirements, ensuring optimal performance in demanding space applications.

[price on request](#)



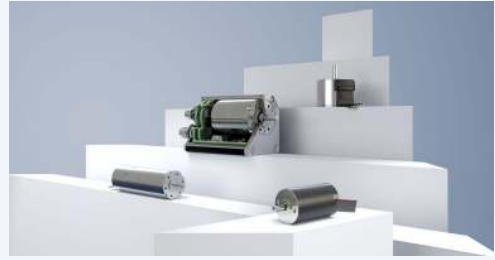
FAULHABER DRIVE SYSTEMS

Motion Controllers for DC Micro motors

FAULHABER motion controllers are designed for precise control of DC micro motors, offering high performance and reliability for demanding applications.

Voltage ranges - Motor	max. 30V
Voltage ranges - Electronics	max. 30V, optionally separated
Continuous current	2A
Peak current	3A
Motor types	DC + Encoder
Inputs/outputs - DigIn	max. 5
Inputs/outputs - DigOut	max. 1

[price on request](#) [datasheet](#)



FAULHABER DRIVE SYSTEMS

Motors with integrated Electronics

FAULHABER offers compact motors with integrated electronics, providing precise control and high performance for various applications, including space exploration.

PWM switching frequency **high**

[price on request](#) [datasheet](#)



FAULHABER DRIVE SYSTEMS

Permanent magnet brakes for DC motors

FAULHABER permanent magnet brakes are designed for DC motors, offering reliable holding and emergency stop functions in various applications, including those in aerospace.

[price on request](#) [datasheet](#)



FAULHABER DRIVE SYSTEMS

Planetary Gearheads

FAULHABER Planetary Gearheads are designed for maximum torque transmission in a compact form factor, ideal for demanding applications.

Gearhead diameter	22 ... 42 mm
Material	stainless steel
Continuous torque	0.45 ... 18 Nm
Continuous input speed	up to 15,000 min-1
Intermittent torque	0.6 ... 25 Nm
Intermittent input speed	up to 20,000 min-1
Radial load	up to 390 N

[price on request](#) [datasheet](#)



FAULHABER DRIVE SYSTEMS

Precision Gearheads

FAULHABER offers a comprehensive range of precision gearheads, including planetary, spur, and zero-backlash spur gearheads, designed for demanding applications in various industries.

[price on request](#)



FAULHABER DRIVE SYSTEMS

Speed Controllers

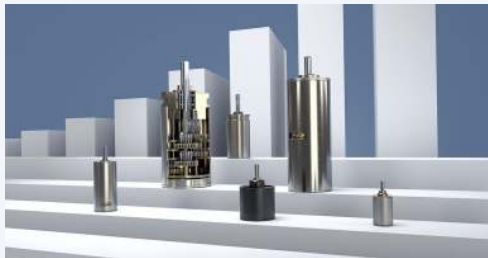
FAULHABER speed controllers are designed for DC and BLDC motors, offering precise control and high performance for various applications, including those in aerospace and aviation.

PWM switching frequency 96 kHz

Efficiency electronic 95 %

[price on request](#)

[datasheet](#)



FAULHABER DRIVE SYSTEMS

Spur Gearheads and Spur Gearheads zero backlash

FAULHABER Spur Gearheads offer high efficiency and precise speed reduction, available with or without zero backlash for demanding applications.

Zero Backlash Versions Available

[price on request](#)

[datasheet](#)



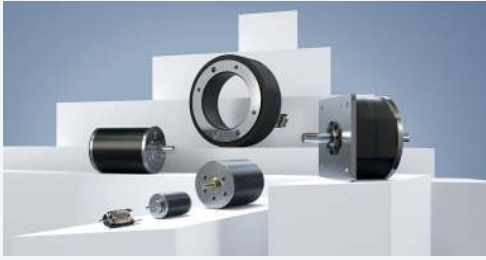
FAULHABER DRIVE SYSTEMS

Stepper Motor Controllers with Microstepping

FAULHABER offers a range of stepper motor controllers designed for precise positioning and motion control, featuring microstepping capabilities for smooth operation.

[price on request](#)

[datasheet](#)



FAULHABER DRIVE SYSTEMS

Stepper Motors

FAULHABER Stepper Motors are known for their long-lasting performance and compact design, making them ideal for precise positioning in various applications, including space exploration.

Series	DM0620
Outer diameter	6 ... 66 mm
Motor length	9,5 ... 32,6 mm
Number of steps per revolution	20 / 24 / 100 / 200
Holding torque	0,25 (0,39) ... 307 (581) mNm
Speed range up to	16 000 min-1

[price on request](#)

[datasheet](#)

Contact FAULHABER Drive Systems

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

<https://newspacemarket.com/companies/faulhaber-drive-systems/>

<https://www.faulhaber.com/en/>

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