

Market Solution

Drive system for
smart logistics



WE CREATE MOTION

The logistics sector calls for solutions. FAULHABER delivers.

Our motors are at home everywhere compact drive systems are needed for demanding automation solutions. In logistics, they drive intelligent robots that do their job autonomously around the clock via digital networks.

Upgrade for Your Logistics in a Double Pack

Frequent load changes, stop-and-go operation and constant loads call for drive solutions that are both extremely powerful as well as absolutely reliable. With the new DualGear from FAULHABER, the intralogistics of the future is getting a true upgrade: The combination of proven BX4 and GPT technology ensures maximum performance, robustness and dynamics.

Precise speed control with high torque

Modern conveying systems benefit from powerful drive solutions.





For dynamic warehouse movements
Automated intralogistics make storage and retrieval possible around the clock.

Long-lasting and durable
Reliable and intelligent logistics robots play an important role in smooth processes.



FAULHABER DualGear

The new dual drive system for logistics applications

The new FAULHABER DualGear was specifically designed for the requirements in automated warehouse logistics – especially for applications in storage and retrieval machines and in compact wheel drives of autonomous logistics systems. One particular advantage of the new drive system is its compactness: Two powerful movements can be realized with a single drive, thereby eliminating the need for two separate systems.

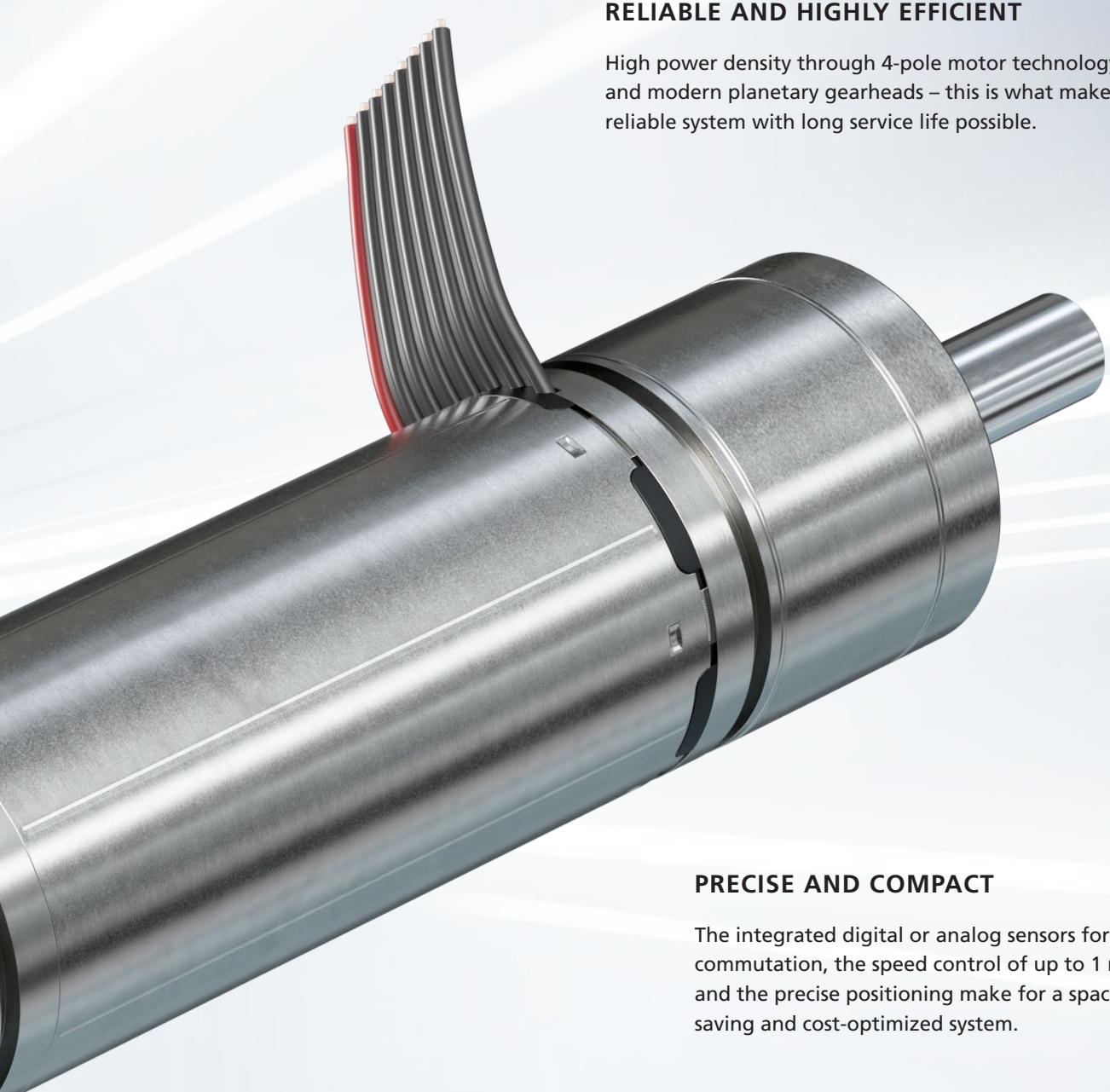
SYSTEM COMPONENTS

- Diameter 32 mm
- Two motor lengths: 42 mm and 68 mm
- Symmetrical gearhead fastening on both sides of the motor
- Planetary gearheads with up to three stages
- Digital and analog Hall sensors



BALANCED TORQUE DISTRIBUTION

The system power is uniformly distributed to the gearhead outputs on both sides: This means a lower load on each gearhead.



RELIABLE AND HIGHLY EFFICIENT

High power density through 4-pole motor technology and modern planetary gearheads – this is what makes a reliable system with long service life possible.

PRECISE AND COMPACT

The integrated digital or analog sensors for commutation, the speed control of up to 1 rpm and the precise positioning make for a space-saving and cost-optimized system.

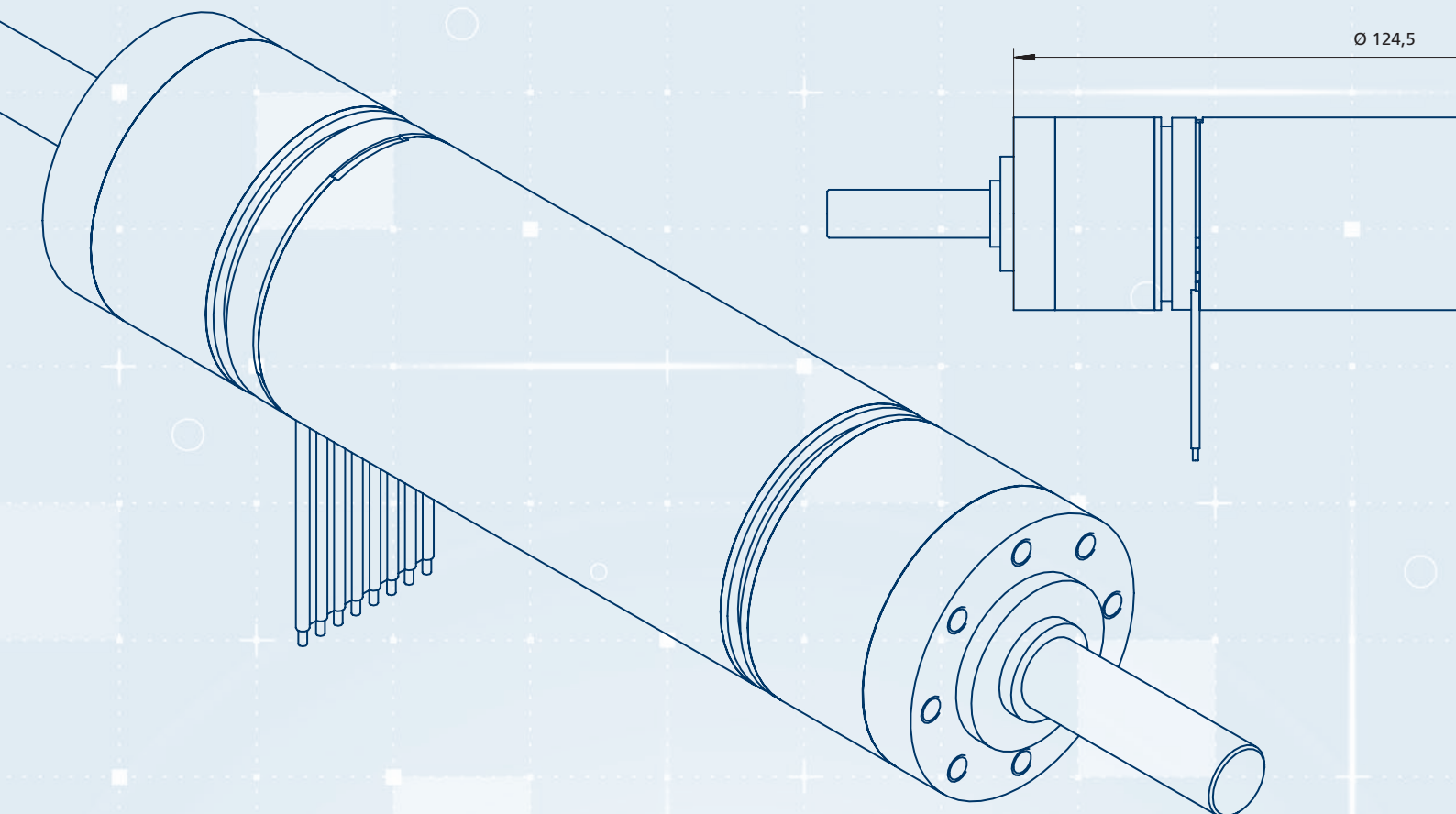
ONE CONTROLLER, TWO MOVEMENTS

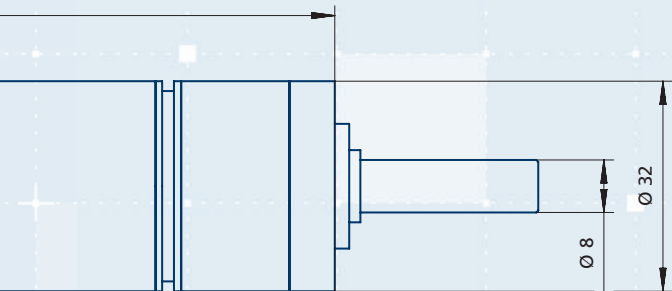
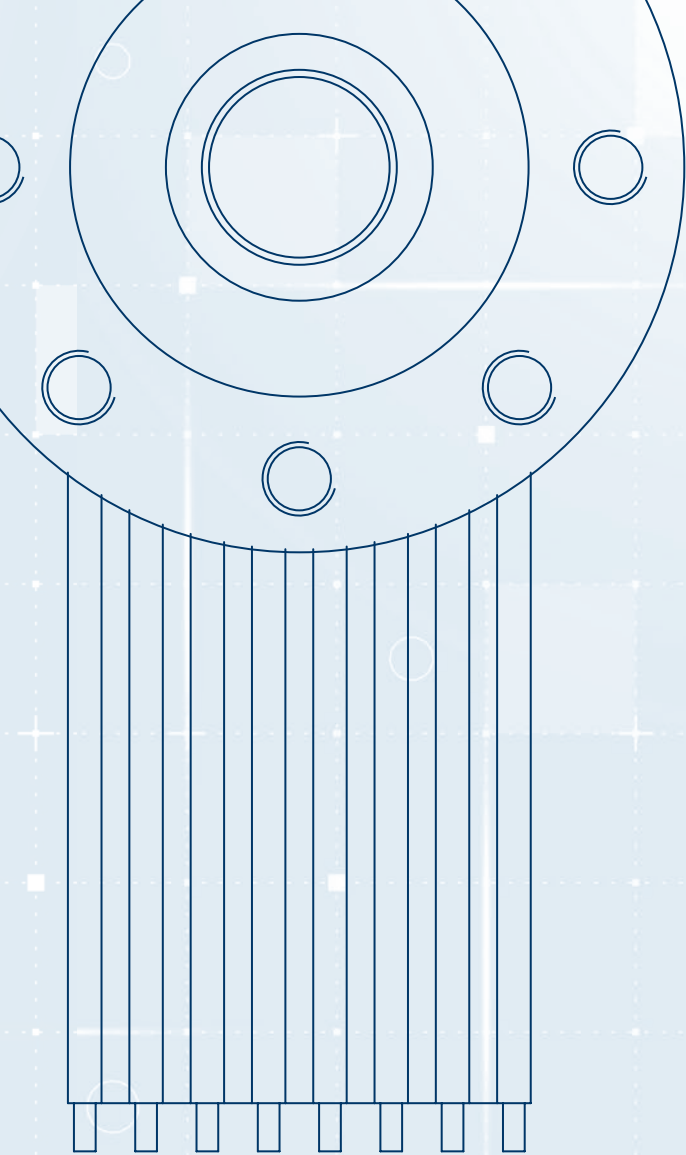
A synchronized movement on both gearhead outputs is easily realized with a single control system.

FAULHABER DualGear

Facts & data

The new FAULHABER DualGear combines a powerful 4-pole technology with two planetary gearheads to create an especially compact and efficient drive system. Thanks to its diameter-compliant design of just 32 mm as well as the integrated sensors, it is ideally suited for space-critical applications in modern logistics and conveying technology. The result is a solution that combines high efficiency, reliable operation and a long service life – a true upgrade for conveyor technology and intralogistics systems of the next generation.





DATA SHEET

32 ... BX4 32GPT*

Nominal voltage	12 ... 48 V
No-load speed (motor) (at 24 V)	5500 min ⁻¹
Torque constant (at 24 V)	43.3
Housing	Stainless steel
Gearhead gear set	Stainless steel
Backlash, without load	0.6 °
Bearings of the output shafts	Ball bearings
Fastening* (installation instructions)	A-side recommended
Radial force on shaft, max.	220 N
Play	
- radial (10 mm from flange)	≤0.07 mm
- axial	0 mm
Operating temperature range	-30 ... 120°C
Torque (continuous)	1.1 Nm
Torque (max, intermittent)	7 Nm
Max. power (continuous)	40 W

Gear stages	Reduction (rounded)	Length (3242BX4)	Length (3268BX4)
1	3:1	98.5 ± 1.4	124.5 ± 1.4
	3.6:1		
	4.5:1		
	6.6:1		
2	9:1	115.3 ± 1.4	141.3 ± 1.4
	11:1		
	14:1		
	16:1		
	20:1		
	24:1		
	30:1		
3	44:1	132.1 ± 1.4	158.1 ± 1.4
	41:1		
	49:1		
	59:1		
	72:1		
	89:1		
	108:1		
	131:1		
	158:1		
	196:1		

*For detailed data, see motor/gearhead data sheet

More information



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