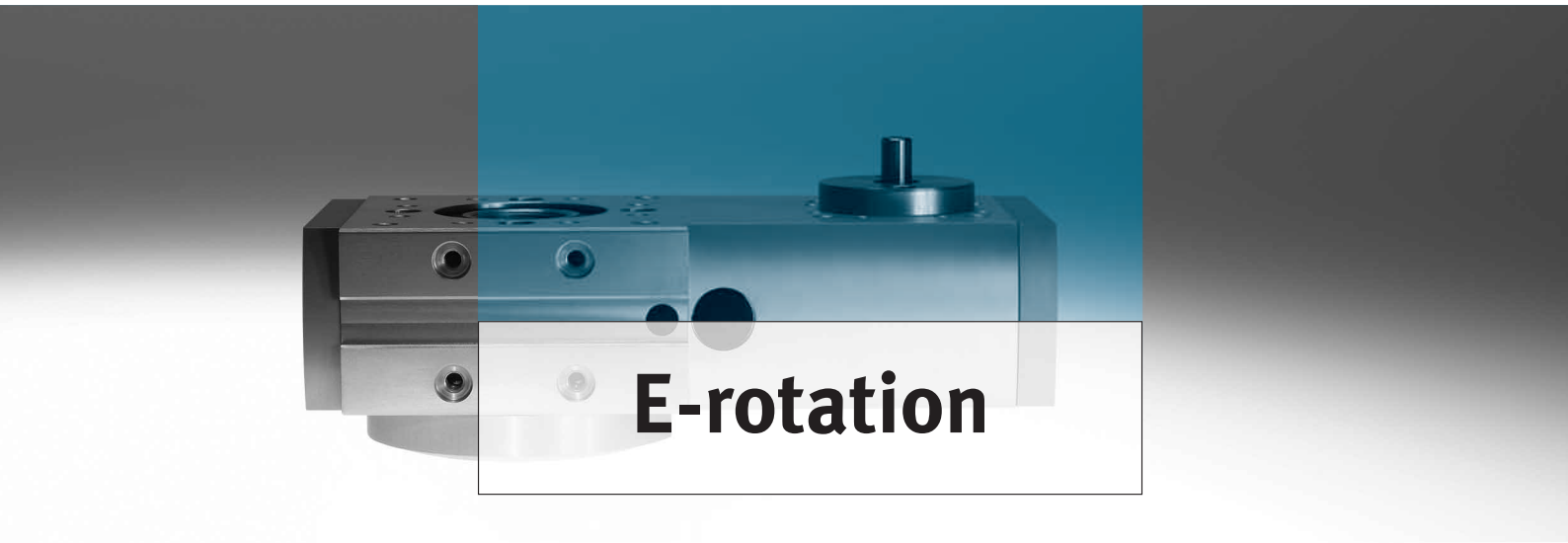
Electric rotary drive module ERMB



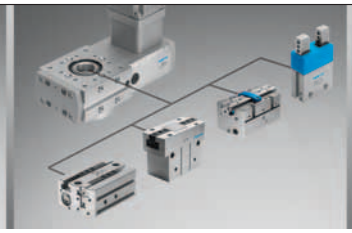
E-rotation

Weights of up to 15 kg can be rotated dynamically and flexibly with the freely positionable, electric rotary drive module ERMB. The ERMB can naturally be systematically incorporated in a mechatronic multi-axis modular system: as a phi axis with any rotation angle ›360° or “stand alone” as a small NC controlled rotary table.

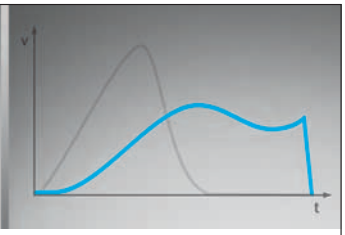
Quicker to install
Standardized adapter plates serve as a mechanical connection between linear axes and grippers. The ERMB is impressive with mounting interfaces on all sides and a high-strength rotary flange with large hollow shaft diameter. This concept enormously reduces planning and design costs. A harmonised range of motors are available for driving the ERMB. A uniform controller concept simplifies the use of servo and stepper motors and a comprehensive software platform simplifies commissioning and control. The ERMB’s performance adapts to requirements dependent on the motor technology used.

Simply balanced
The ERMB rotary module effectively minimises vibrations in multi-axis systems, thanks to uniform movements and user-defined acceleration ramps, and thus increases the performance of the entire system. Unlike rotary modules using shock absorbers, movements to the end position are smooth and wear-free.

Strong



Compatible



Smooth

151.1.**PSI** →
Product Short Information

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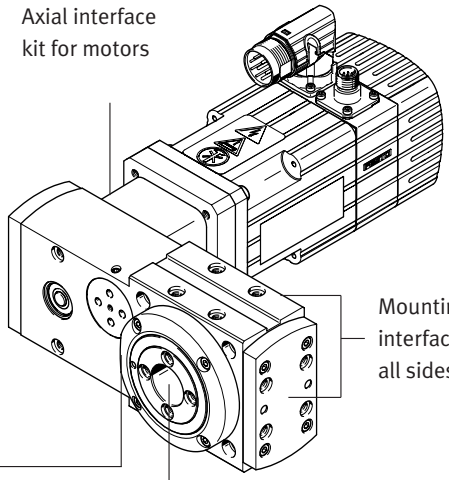

The EAPS sensing module, available as an accessory, makes it is possible to define impermissible areas using 2 inductive sensors and trip cams.

EAPS with casing

EAPS without casing

Technical data

Size	ERMB-20	ERMB-25	ERMB-32
Max. output torque [Nm]	3.15	8.8	25.5
Gear unit ratio [i]	4.5:1	4:1	3:1
Max.output speed [r.p.m.]	300	300	300
Rotation angle [°]	Endless		

Position sensing/reference switch:
Sensing on the rotary module takes place with SIEN-M8 type inductive sensors. This is accomplished by sensing a 90° adjustable indexing pin.

Repetition accuracy	
Repetition accuracy (with servo motors type EMMS-AS)	Max. ±0.03°
Repetition accuracy (with MTR-DCI)	Max. ±0.05°
Repetition accuracy (with stepper motors EMMS-ST I)	Max. ±0.08°

Mass moments of inertia and positioning times			
Max. mass moment of inertia [kgcm²]			
with EMMS-AS	50	200	1000
with EMMS-ST	30	100	500
with MTR-DCI-...-G7	50	300	1000
with MTR-DCI-...-G14	200	1200	3700
Min. positioning times [180°/s], dependent on load and motor	‹0.3	‹0.3	‹0.3

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