Electromechanical Rotary Actuator ERMB

High Capacity, Easy Integration, Smooth Operation

Dynamic and Flexible
Weights of up to 15 kg can be rotated dynamically and flexibly with the freely positionable, electromechanical rotary actuator 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 actuators and grippers. The ERMB allows for 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 full 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.

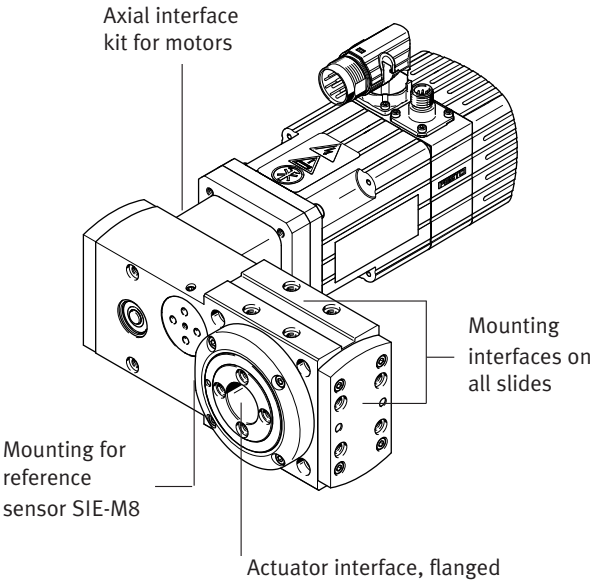
Simply Balanced
The ERMB rotary actuator effectively minimizes vibrations in multi-axis systems, thanks to uniform movements and user-defined acceleration ramps, and thus increases the performance of the entire system. Unlike rotary actuators using shock absorbers, movements to the end position are smooth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

ERMB.PSI.US

For more information: **www.festo.com/us/ermb**

Product Short Information

Electromechanical Rotary Actuator ERMB



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

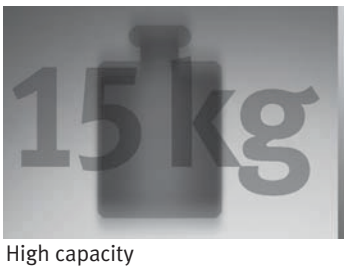
Technical Data

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		

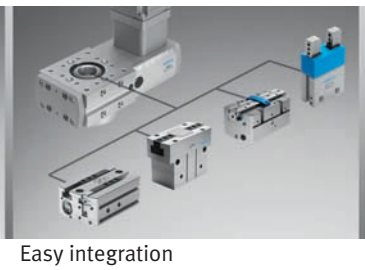
Repeatability	
Repeatability (with servo motors type EMMS-AS)	Max. ±0.03°
Repeatability (with MTR-DCI)	Max. ±0.05°
Repeatability (with stepper motors EMMS-ST I)	Max. ±0.08°

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

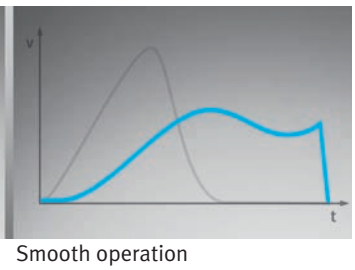
Position sensing/reference switch:
Sensing on the rotary actuator with SIEN-M8 type inductive sensors. This is accomplished by sensing a 90° adjustable indexing pin.



High capacity



Easy integration



Smooth operation

Festo Corporation

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