

Rotary modules ERMB, electric

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Rotary modules ERMB, electric

Key features

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At a glance

The rotary module ERMB facilitates unlimited and flexible rotation angles. The output interface is the same as on the pneumatic semi-rotary drive DRQD.

The motor's power is transmitted to the output pinion via a recirculating toothed belt with a specific transmission ratio. The drive and output

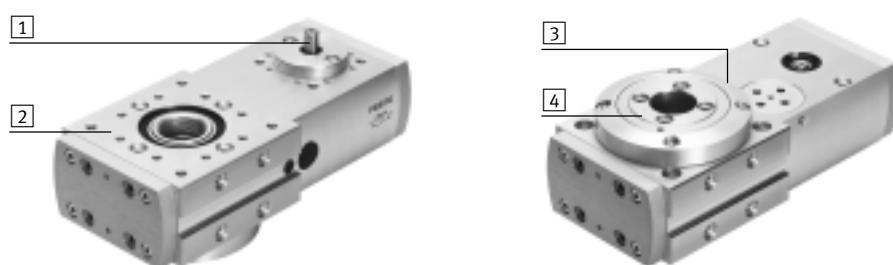
pinions run on separate bearings. The toothed belt is pretensioned at the factory using an eccentric tensioning roller.

Advantages :

- Stable output shaft bearings
- Pretensioned toothed belt means low backlash
- Compact design

The technology in detail

- [1] Interface for motor, through axial kit
- [2] Interface for mounting
- [3] Mounting for proximity sensor SIEN in the retaining ring
- [4] Output interface:
Interface the same as on the semi-rotary drive DRQD (with large through-hole)



Sensing kit EAPS as an accessory

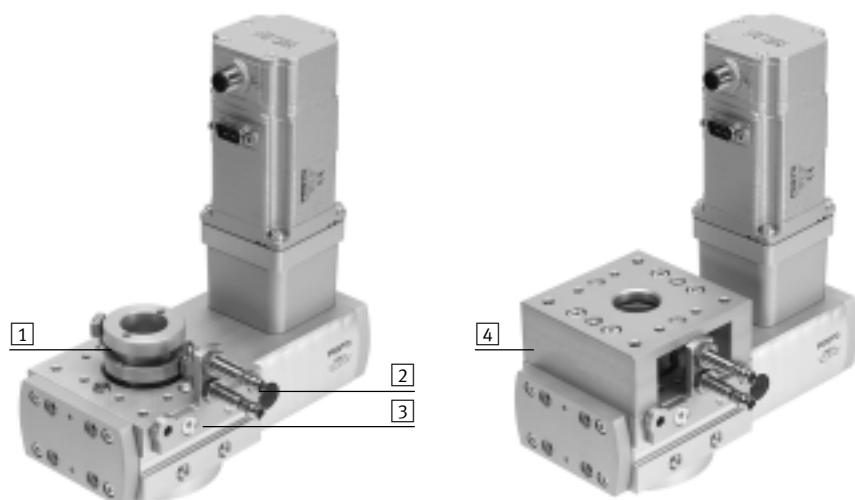
➔ page 16

With the sensing kit, the angle of rotation can be monitored using adjustable cams. The kit can also be used for reference checking.

Without housing

With housing

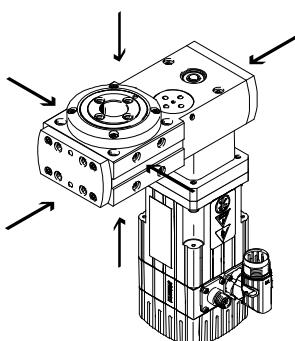
- [1] Trip cam support
- [2] Proximity sensor SIEN
- [3] Sensor bracket
- [4] Housing



Mounting and installation possibilities

Mounting option

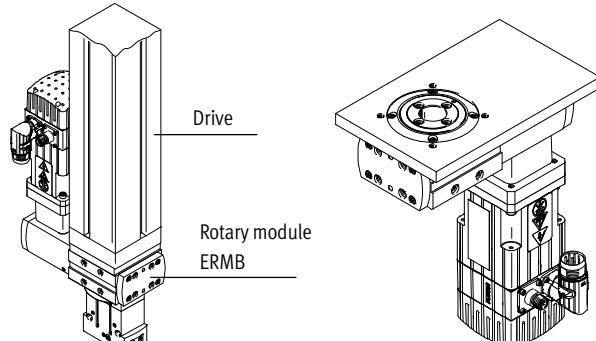
The rotary module can be attached on 6 sides.



Installation option

As a front unit

As a rotary table in a plate



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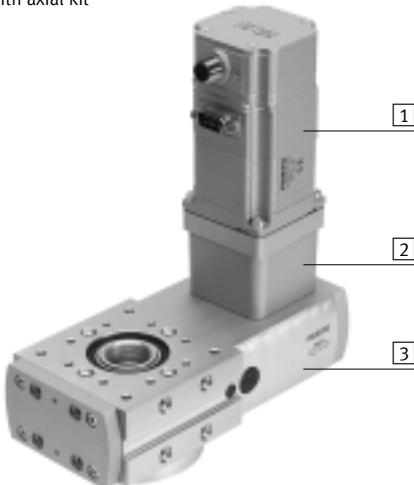
Key features

Total system comprising rotary module, motor and axial kit

Rotary module

→ page 6

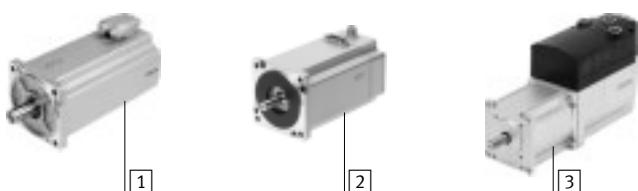
With axial kit



- [1] Motor
- [2] Axial kit
- [3] Rotary module

Motors

→ page 18



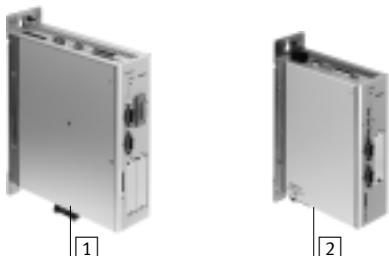
- [1] Servo motor EMME-AS, EMMS-AS
- [2] Stepper motor EMMS-ST
- [3] Integrated drive EMC



A range of specially adapted complete solutions is available for the rotary module ERMB and the motors.

Motor controller

Technical data → Internet: motor controller



- [1] Servo motor controller CMMP-AS
- [2] Stepper motor controller CMMS-ST

Axial kit

→ page 18



Kit comprising:

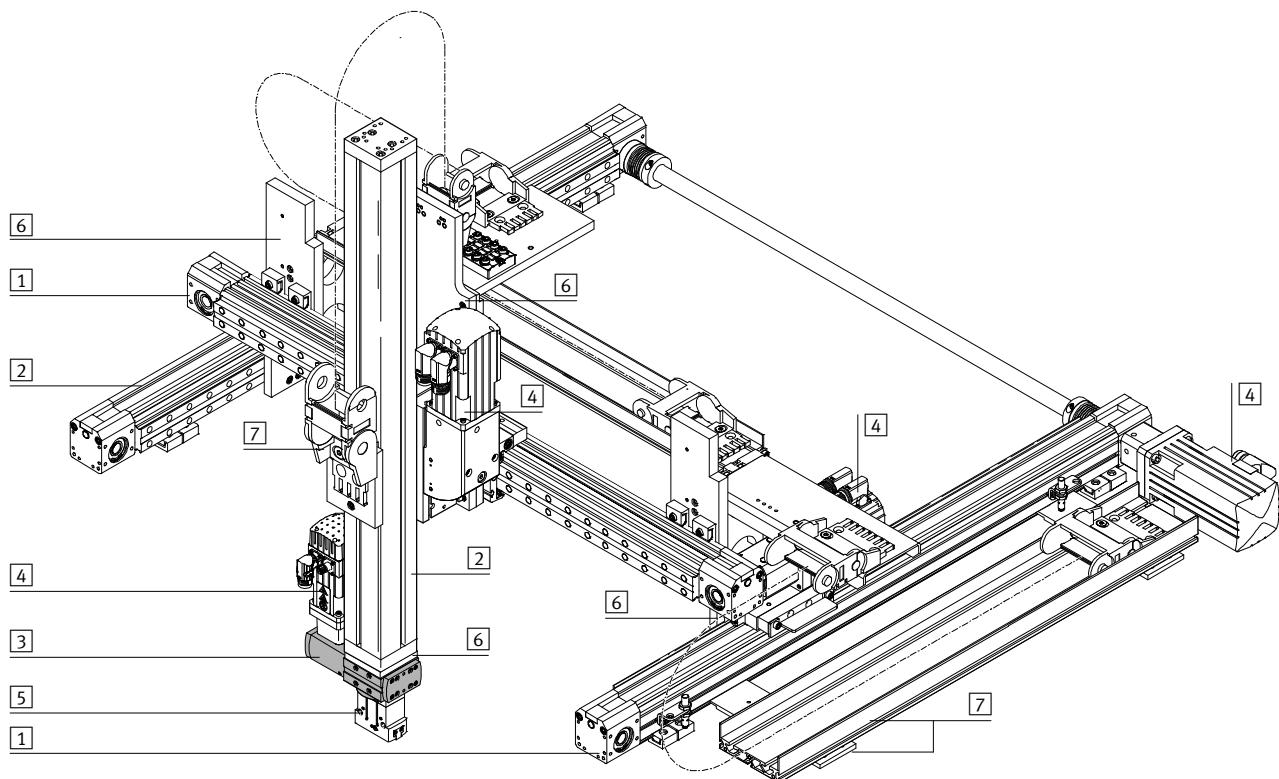
- Motor flange
- Coupling housing
- Coupling
- Screws

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Key features

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System product for handling and assembly technology



System components and accessories

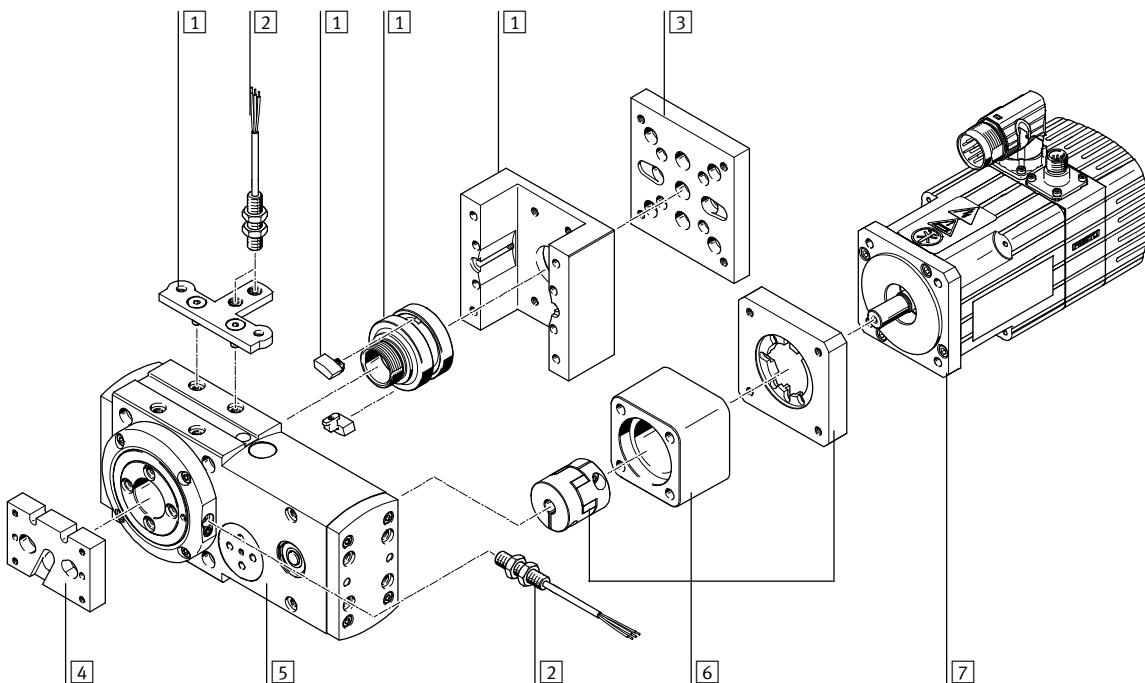
	Description	➔ Page/Internet
[1] Axes	Wide range of combinations possible as part of handling and assembly systems	axis
[2] Guide axes	For supporting force and torque capacity in multi-axis applications	guide axis
[3] Rotary module	Wide range of combinations possible as part of handling and assembly systems	rotary module
[4] Motors	Servo and stepper motors, with or without gearbox	motor
[5] Grippers	Wide range of variations possible within handling and assembly technology	grippers
[6] Adapters	For drive/drive connections For drive/gripper connections	22 grippers
[7] Installation components	For a clear, safe layout of electrical cables and tubes	installation element

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Type codes and peripherals overview

Peripherals overview



Accessories

Type	Description	➔ Page/Internet
[1] Sensing kit EAPS	For indicating impermissible angles of rotation, i.e. obstacles or areas that cannot be approached can be sensed using proximity sensors (Comprising: housing, trip cam support, 2 cams and sensor bracket)	21
[2] Proximity sensor SIEN	For use as a signal or safety check	21
[3] Adapter kit	Interface between the rotary module and drive (the rotary module can be attached to a drive with or without a sensing kit)	adapter kit
[4] Adapter kit	Interface between the rotary module and gripper	adapter kit
[5] Rotary module ERMB	Facilitates unlimited and flexible rotation angles	6
[6] Axial kit EAMM-A	For axial motor mounting (consisting of: coupling, coupling housing and motor flange)	18
[7] Motor EMMS, EMME, EMCA	<ul style="list-style-type: none"> Motors specially matched to the axis, with or without brake The motor can be mounted turned by 90° depending on the requirement. This means the connection side can be freely selected 	18

Type codes

ERMB	-	25
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Type
ERMB Rotary module

Size
20 Size 20
25 Size 25
32 Size 32

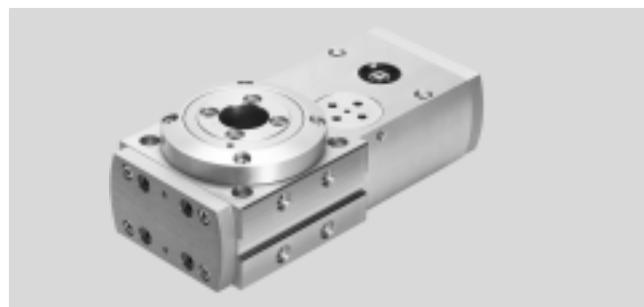
Rotary modules ERMB, electric

Technical data

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- Ø - Size
20, 25, 32

- T - www.festo.com



General technical data

Size	20	25	32
Design	Electromechanical rotary module with toothed belt		
Drive pinion Ø [mm]	6	8	12
Rotation angle	Infinite		
Repetition accuracy ¹⁾			
With servo motor EMMS-AS [°]	±0.03		
With stepper motor EMMS-ST ²⁾ [°]	±0.08		
With integrated drive EMCA [°]	±0.05		
Positioning times	→ page 9		
Transmission ratio	4.5:1	4:1	3:1
Position sensing	Via proximity sensor		
Assembly position	Any		
Product weight [g]	850	1460	3250

1) As per FN 942 027. The specifications apply only when the motor is directly mounted. If a gear unit is also installed, the repetition accuracy will be different.

2) Dependent on the encoder resolution.

Mechanical data

Size	20	25	32
Max. driving torque [Nm]	0.7	2.2	8.5
Max. output torque ¹⁾ [Nm]	3.15	8.8	25.5
Average no-load driving torque ²⁾ [Nm]	< 0.07	< 0.18	≤ 0.5
Max. input speed [rpm]	1350	1200	900
Max. output speed [rpm]	300	300	300
Toothed belt pitch	2	3	5
Hollow shaft Ø [mm]	20	24	28

1) Output torque minus friction dependent on speed.

2) At maximum rotational speed.

Operating and environmental conditions

Size	20	25	32
Ambient temperature [°C]	-10 ... +60		
Degree of protection	IP20		
Corrosion resistance class CRC ¹⁾	2		
Noise level L _{pAeq} ²⁾ [dB (A)]	32	49	53

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

2) In combination with servo motor EMMS-AS

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Technical data

Mechanical data			
Size	20	25	32
Max. mass moment of inertia ¹⁾ [kgcm ²]	1000	5000	10000
Max. inertia factor ²⁾			
for servo motor EMMS-AS/EMME-AS	45		
for stepper motor EMMS-ST	30		
for integrated drive EMCA	16		

1) These values specify the upper limit independently of what is determined using the inertia factor.

2) The inertia factor represents the maximum controllable ratio between the inertia of the load and the intrinsic inertia of the motor with brake.

Example:

Rotary/lifting module ERMB-20 → transmission ratio i = 4.5

Motor EMME-AS-40-S with brake → intrinsic inertia 0.055 kgcm²

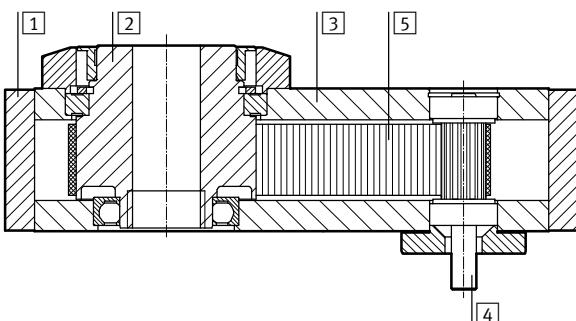
Gearbox EMGA-40-P-G3-40 → transmission ratio i = 3

Limit for the inertia of the load (+ intrinsic inertia) on the output side:

$$0.055 \text{ kgcm}^2 \times 45 \times 3^2 \times 4.5^2 = 451 \text{ kgcm}^2$$

Materials

Sectional view



Rotary module

[1] End cap	Anodised aluminum
[2] Drive shaft	Anodised wrought aluminium alloy
[3] Housing	Anodised wrought aluminium alloy
[4] Drive shaft	High-alloy stainless steel
[5] Toothed belt	Polychloroprene with glass fibre
Note on materials	Contains paint-wetting impairment substances

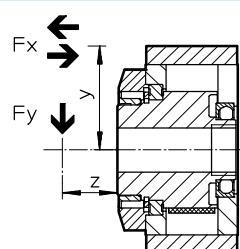
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Technical data

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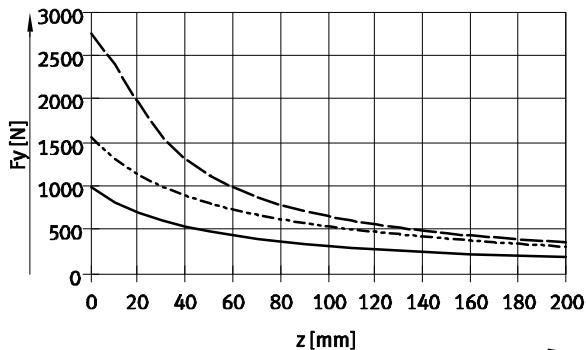
Maximum radial and axial force Fx/Fy on the output shaft as a function of the distance y/z

If the rotary module is subjected to two or more forces at once, the following equation must be satisfied in addition to the maximum loads indicated below.

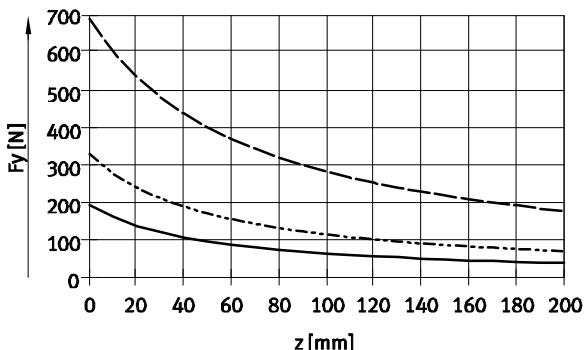


$$\frac{F_y(z)}{F_{y, \text{max.}(z)}} + \frac{F_{x, \text{pushing}(v)}}{F_{x, \text{pushing,max.}(v)}} + \frac{F_{x, \text{pulling}(v)}}{F_{x, \text{pulling,max.}(v)}} \leq 1$$

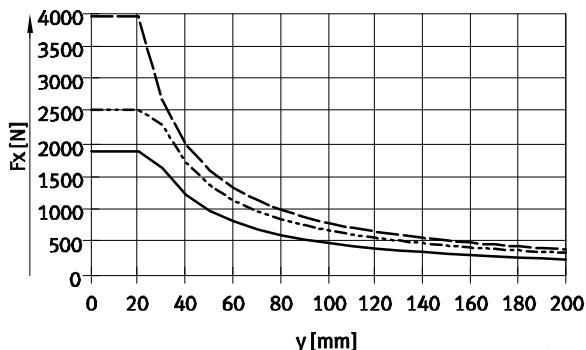
Max. radial force Fy, static



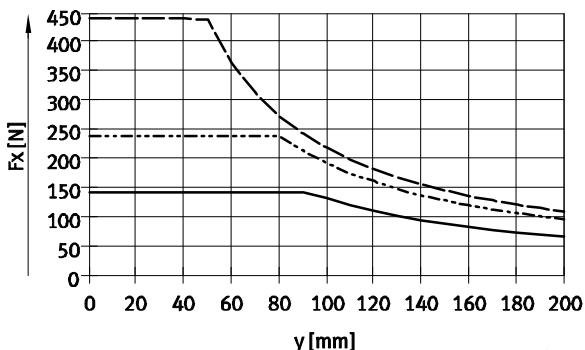
Max. radial force Fy, dynamic



Max. axial force Fx, static, pushing and pulling



Max. axial force Fx, dynamic, pushing and pulling



- ERMB-20
- - - ERMB-25
- - - - ERMB-32

Rotary modules ERMB, electric

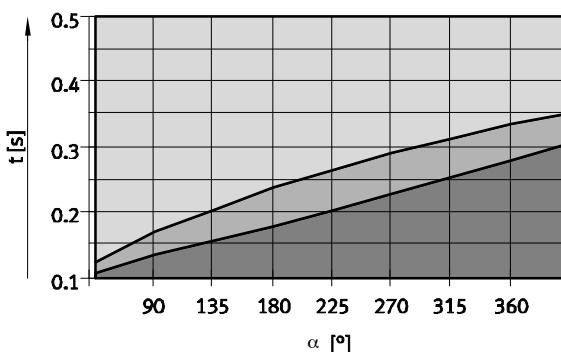
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Technical data

Positioning time t as a function of the rotation angle α

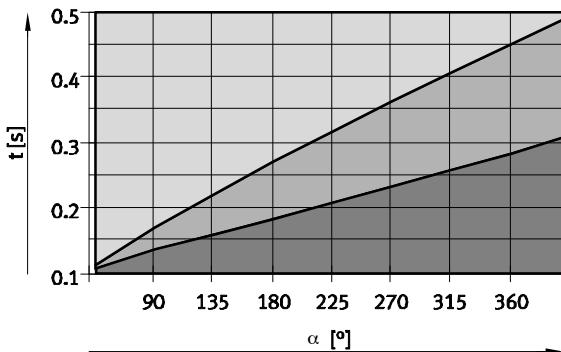
Size: 20

With servo motor EMMS-AS



■ Extended operating range
■ Typical operating range, depending on motor size and load inertia
■ Non-implementable range

With stepper motor EMMS-ST



■ Extended operating range
■ Typical operating range, depending on motor size and load inertia
■ Non-implementable range



The positioning time t ends with the controller signal MC (motion complete), i.e. on the drive side.

Increased positioning times are to be expected at the output shaft depending on the motor type and eccentricity of the moving load.

With servo motor: 50 ... 100 ms
With stepper motor: 100 ... 200 ms



The "PositioningDrives" engineering software compiles the optimum combination of rotary module and motor according application with regard to mass moment of inertia, positioning time, and positioning accuracy.
→ www.festo.com

Rotary modules ERMB, electric

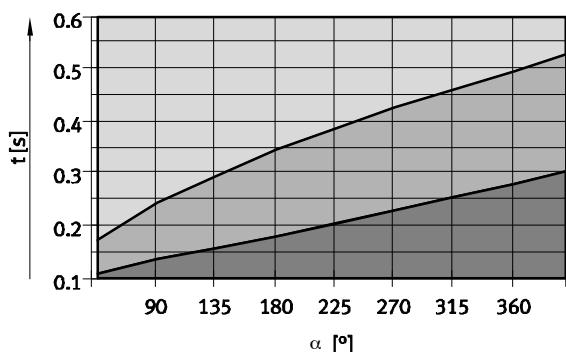
Technical data

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Positioning time t as a function of the rotation angle α

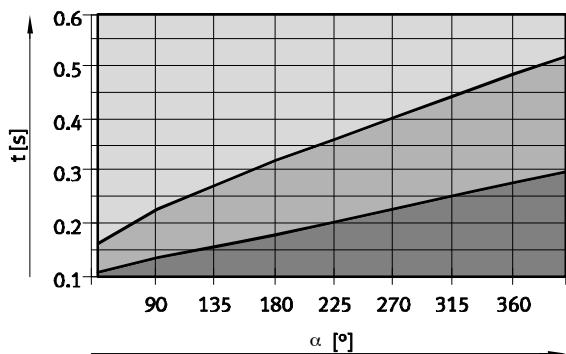
Size: 25

With servo motor EMMS-AS



- Extended operating range
- Typical operating range, depending on motor size and load inertia
- Non-implementable range

With stepper motor EMMS-ST



- Extended operating range
- Typical operating range, depending on motor size and load inertia
- Non-implementable range

Note

The positioning time t ends with the controller signal MC (motion complete), i.e. on the drive side.

Increased positioning times are to be expected at the output shaft depending on the motor type and eccentricity of the moving load.

With servo motor: 50 ... 100 ms
With stepper motor: 100 ... 200 ms

Note

The "PositioningDrives" engineering software compiles the optimum combination of rotary module and motor according application with regard to mass moment of inertia, positioning time, and positioning accuracy.
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Rotary modules ERMB, electric

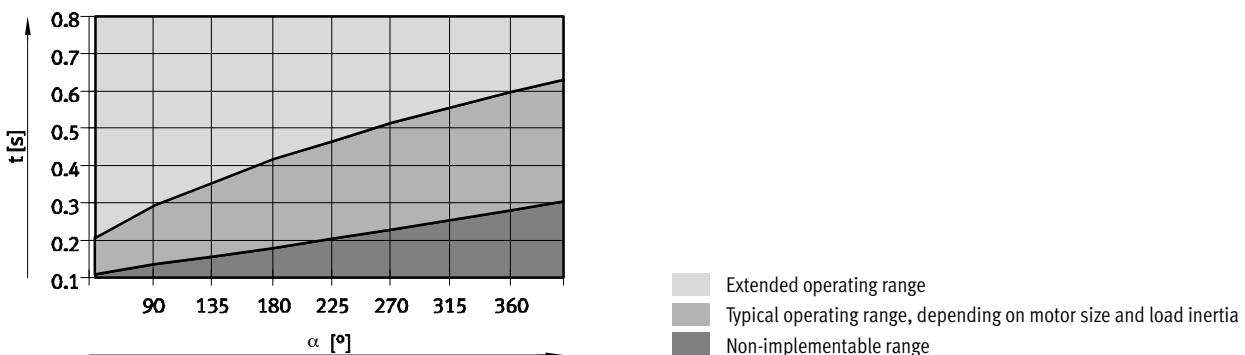
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Technical data

Positioning time t as a function of the rotation angle α

Size: 32

With servo motor EMMS-AS

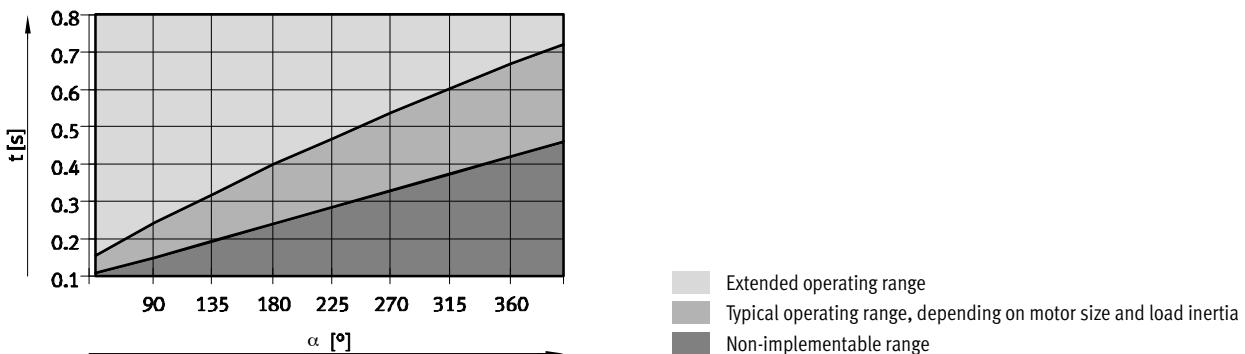


Extended operating range

Typical operating range, depending on motor size and load inertia

Non-implementable range

With stepper motor EMMS-ST



Extended operating range

Typical operating range, depending on motor size and load inertia

Non-implementable range

- Note

The positioning time t ends with the controller signal MC (motion complete), i.e. on the drive side.
With servo motor: 50 ... 100 ms
With stepper motor: 100 ... 200 ms

Increased positioning times are to be expected at the output shaft depending on the motor type and eccentricity of the moving load.

- Note

The "PositioningDrives" engineering software compiles the optimum combination of rotary module and motor according application with regard to mass moment of inertia, positioning time, and positioning accuracy.
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Rotary modules ERMB, electric

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Information on service life values

Within the scope of the product qualification, the specified static stress cycle/switching cycle is reached using 3 test objects.

Definition of stress cycle/switching cycle:

One switching cycle corresponds to two stress cycles: Position A to Position B and back.

Size	20	25	32
Stress cycle reference value [million]	30	40	40
Switching cycle reference value [million]	15	20	20
Mass moment of inertia on output [kgcm ²]	24	80	400
Average angular acceleration on output [°/sec ²]	28000	20000	12000
Maximum angular velocity on output [°/sec]	1800	1800	1800

The static stress cycles/switching cycles specified above were achieved under the following, defined operating conditions: horizontal, hanging installation, 180° swivel angle, frequency 2 Hz, mass moment of inertia, acceleration (vibration-free) and max. angular velocity according to the table, room temperature (23 ±5 °C).

Under deviating operating conditions, a shorter or longer service life may be achieved.

In addition, the working conditions and safety regulations specified in the product documentation must be observed.

Rotary modules ERMB, electric

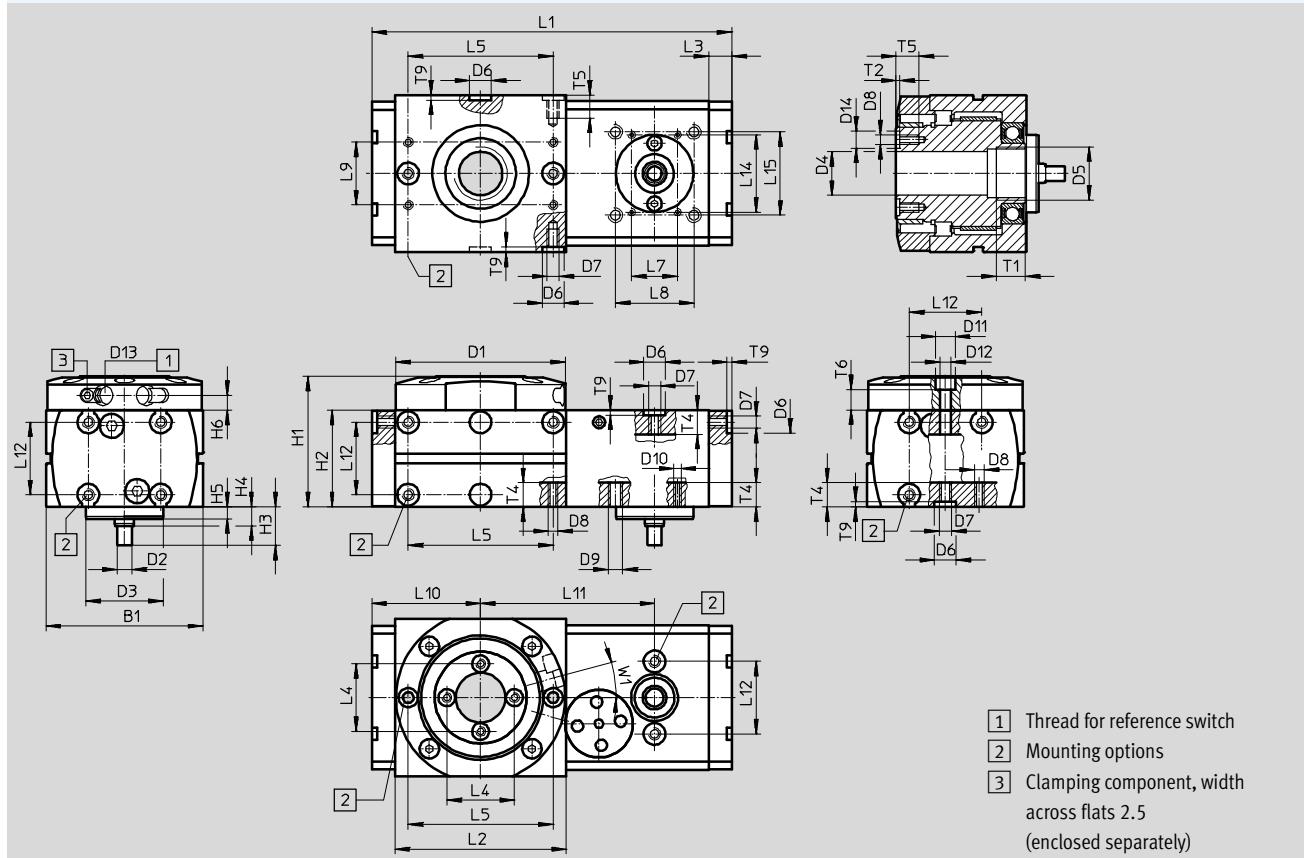
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Technical data

Dimensions

Size 20

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Size	B1	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13
20	65	70	6	32	20	M22x1	9	M5	M4	M6	M3	8	4.5	M8x1

Size	D14	H1	H2	H3	H4	H5	H6	L1	L2	L3	L4 ¹⁾	L5 ¹⁾	L7	L8
20	7	54	40	15.9	7.9	5	6.15	149	71	9.5	28	60	19	32.5

Size	L9 ¹⁾	L10	L11	L12 ¹⁾	L14	L15	T1	T2	T4	T5	T6	T9	W1
20	26	45	72	30	32	32.5	12	1.6	10	9.6	8.4	2.1	15°

1) Tolerance for centring hole ± 0.02 mm.

Tolerance for thread ± 0.1 mm.

Rotary modules ERMB, electric

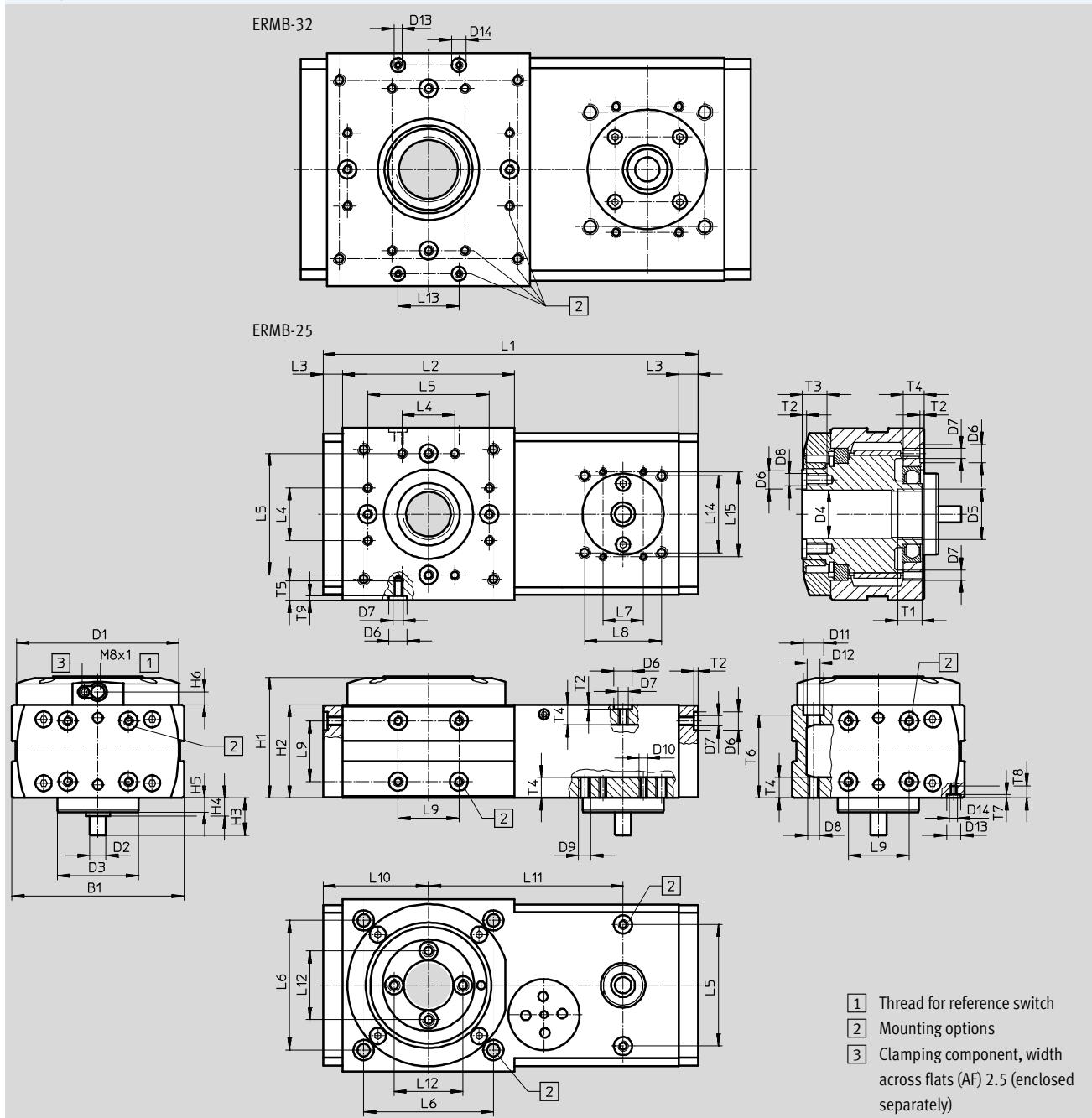
Technical data

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Dimensions

Size 25/32

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Rotary modules ERMB, electric

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Technical data

Size	B1 ± 0.2	D1 \emptyset f9	D2 \emptyset H6	D3 \emptyset g7	D4 \emptyset H7	D5	D6 \emptyset H7	D7	D8	D9	D10
25	85	80	8	40	24	M25x1	9	M5	M6	M6	M4
32	115	112	12	60	28	M32x1.5	9	M5	M6	M8	M5

Size	D11 \emptyset	D12 \emptyset	D13 \emptyset H7	D14	H1 ± 0.5	H2 ± 0.1	H3	H4	H5	H6	L1 ± 0.5
25	10	6.2	—	—	60	46	18.45	—	7	6.45	185
32	10	6.2	7	M4	76.05	60	23.5	6.5	6	9.4	222

Size	L2 ± 0.2	L3 ± 0.1	L4 ± 0.1	L5 ¹⁾ ± 0.1	L6	L7	L8	L9 ¹⁾ ± 0.1	L10	L11	L12 ¹⁾ ± 0.1	L13 ¹⁾ ± 0.1
25	85	9.5	26	60	64 ± 0.15	20	38	30	52	96	34	—
32	100	13	36	80	88 ± 0.1	31	56.5	40	63	108	45	30

Size	L14 ± 0.15	L15 ± 0.15	L16 +0.2	T1	T2 +0.1	T3	T4	T5 Min.	T6	T7 +0.1	T8 Min.	T9 +0.2
25	38	42	—	12	2.1	12	10	9.6	40.8 ± 0.2	—	—	2.1
32	56.5	62	103	12	2.1	12	10	10	54.3	1.6	7.6	2.1

1) Tolerance for centring hole ± 0.02 mm.

Tolerance for thread ± 0.1 mm.

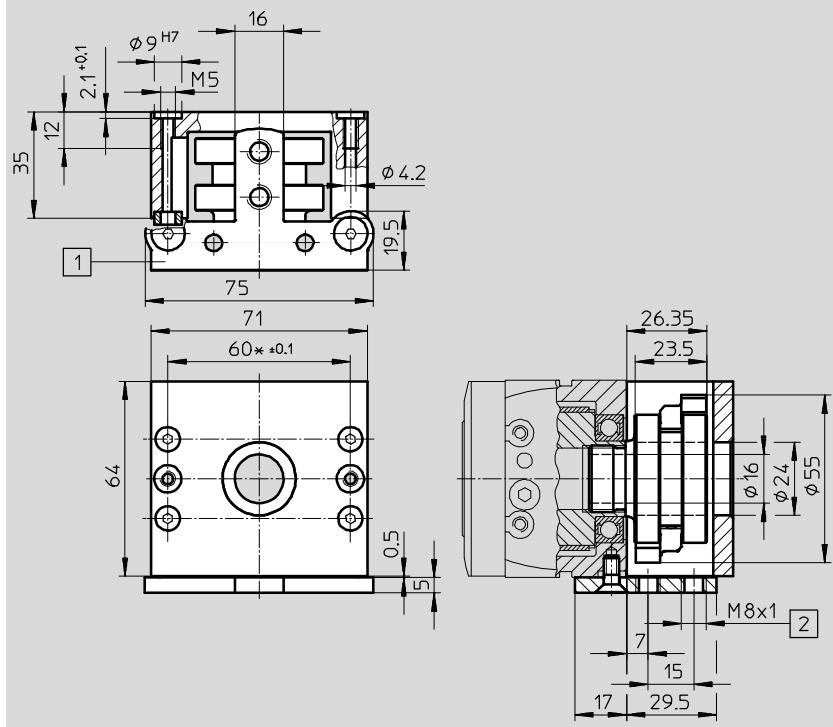
Rotary modules ERMB, electric

Technical data

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Dimensions

Sensing kit EAPS-R1-20-S for size 20

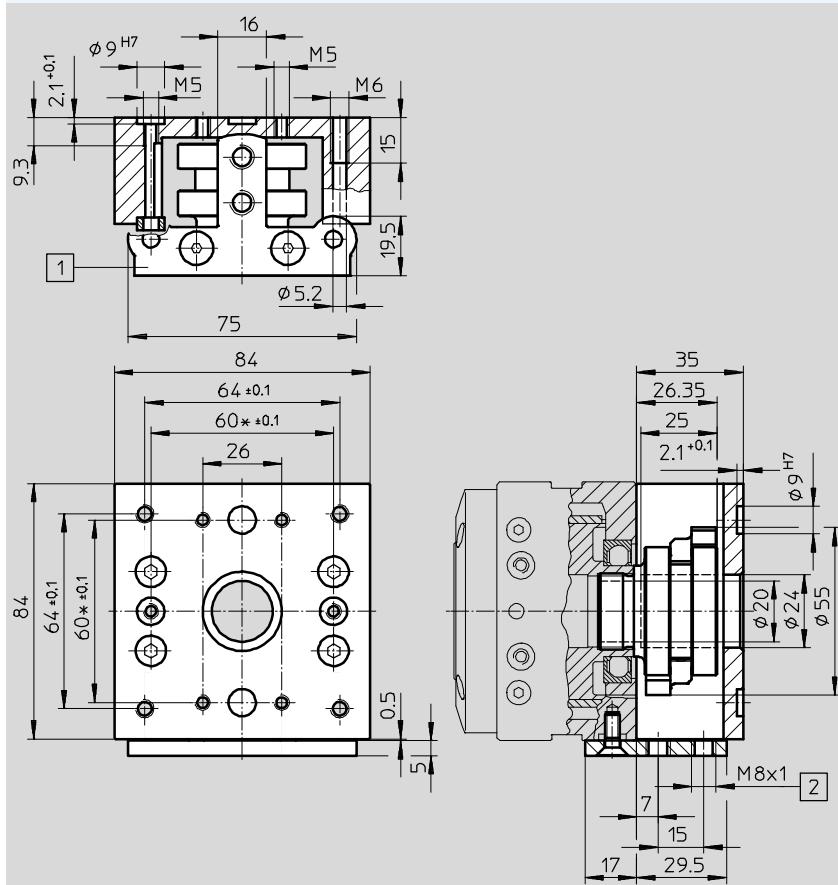


Download CAD data → www.festo.com

- - - Note
Ordering data → page 21

- * Tolerance between the centring holes ± 0.02 mm
- [1] Sensor bracket for proximity sensor SIEN-M8B
- [2] Thread for proximity sensors SIEN-M8B

Sensing kit EAPS-R1-25-S for size 25



- - - Note
Ordering data → page 21

- * Tolerance between the centring holes ± 0.02 mm
- [1] Sensor bracket for proximity sensor SIEN-M8B
- [2] Thread for proximity sensors SIEN-M8B

Rotary modules ERMB, electric

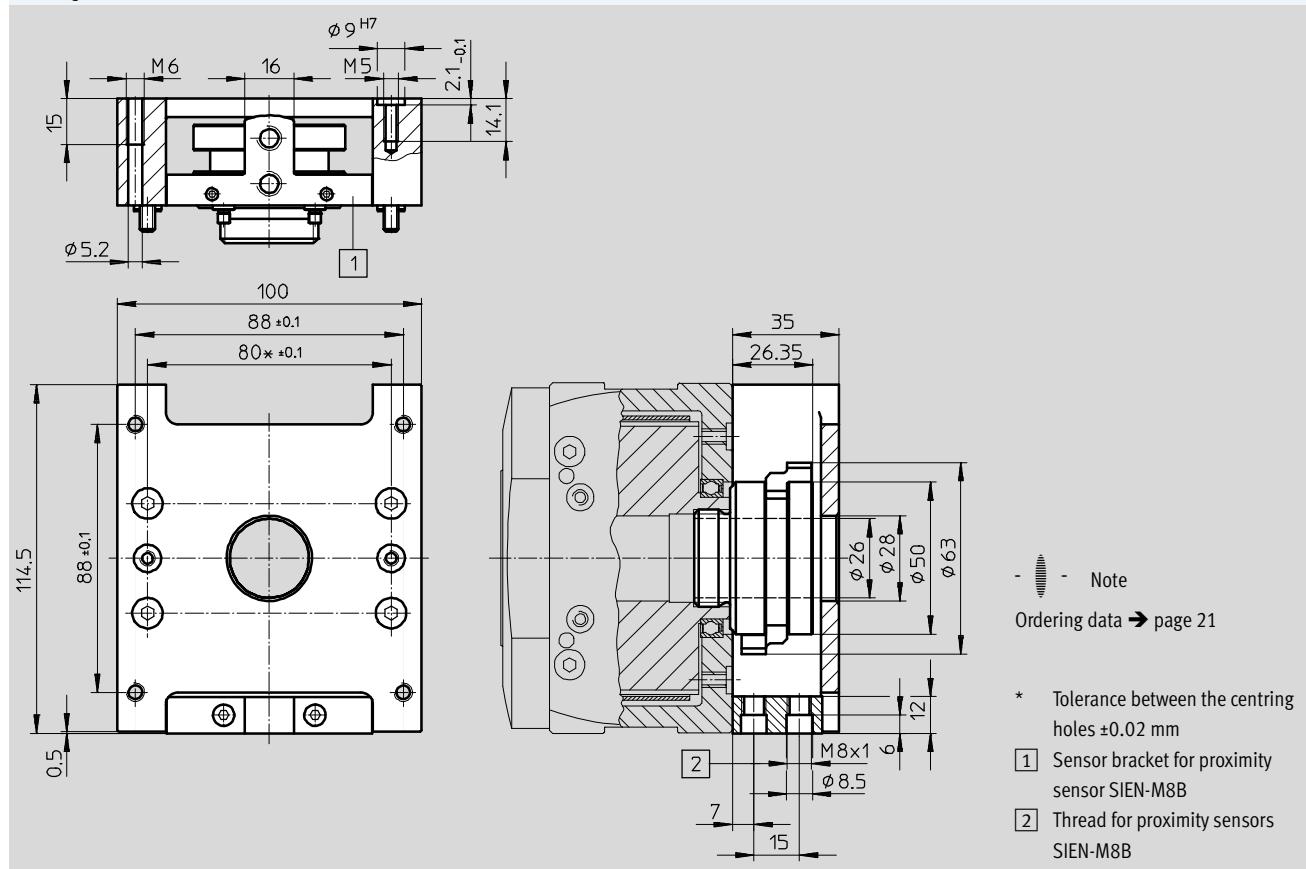
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Technical data

Dimensions

Sensing kit EAPS-R1-32-S for size 32

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Rotary modules ERMB, electric

Technical data and accessories

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Ordering data				
	Size	Part No.	Type	
	20	552706	ERMB-20	
	25	552707	ERMB-25	
	32	552708	ERMB-32	

Accessories



Note

Depending on the combination of motor and drive, it may not be possible to reach the maximum feed force of the drive.

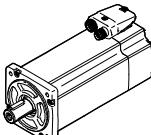
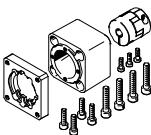
Permissible axis/motor combinations with axial kit – Without gear unit					Technical data ➔ Internet: eamm-a
Motor ¹⁾	Axial kit	Axial kit comprises:			
		Motor flange	Coupling	Coupling housing	
Type	Part No. Type	Part No. Type	Part No. Type	Part No. Type	
ERMB-20					
With servo motor					
EMME-AS-40-...	2207441 EAMM-A-D32-35A-40P	–	533708 EAMC-30-32-6-8	2207509 EAMK-A-D32-35-40P	
EMMS-AS-40-...	560281 EAMM-A-D32-35A-40A	–	558312 EAMC-30-32-6-6	560280 EAMK-A-D32-35-40A	
With stepper motor					
EMMS-ST-42-...	543148 EAMM-A-D32-42A	552164 EAMF-A-28B-42A	543419 EAMC-16-20-5-6	552155 EAMK-A-D32-28B	
EMMS-ST-57-...	550980 EAMM-A-D32-57A	530081 EAMF-A-44A/B-57A	551002 EAMC-30-32-6-6.35	551006 EAMK-A-D32-44A/C	
With integrated drive					
EMCA-EC-67-...	1454239 EAMM-A-D32-67A	1476305 EAMF-A-44A/B/C-67A-S1	551003 EAMC-30-32-6-9	551006 EAMK-A-D32-44A/C	

1) The input torque must not exceed the maximum permissible transferable torque of the axial kit.

Rotary modules ERMB, electric

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Accessories

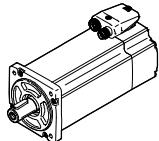
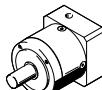
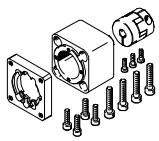
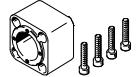
Permissible axis/motor combinations with axial kit – Without gearbox			Technical data → Internet: eamm-a	
Motor ¹⁾	Axial kit	Axial kit comprises:		
		Motor flange	Coupling	Coupling housing
				
Type	Part No. Type	Part No. Type	Part No. Type	Part No. Type
ERMB-25				
With servo motor				
EMMS-AS-55-...	543153 EAMM-A-D40-55A	529942 EAMF-A-44A/B-55A	543423 EAMC-30-32-8-9	552157 EAMK-A-D40-44A/C
EMME-AS-60-...	1977000 EAMM-A-D40-60P	1956846 EAMF-A-44C-60P	562682 EAMC-30-32-8-14	552157 EAMK-A-D40-44A/C
EMMS-AS-70-...	550981 EAMM-A-D40-70A	529943 EAMF-A-44A/B-70A	551004 EAMC-30-32-8-11	552157 EAMK-A-D40-44A/C
With stepper motor				
EMMS-ST-57-...	543154 EAMM-A-D40-57A	530081 EAMF-A-44A/B-57A	543421 EAMC-30-32-6.35-8	552157 EAMK-A-D40-44A/C
With integrated drive				
EMCA-EC-67-...	1454243 EAMM-A-D40-67A	1476305 EAMF-A-44A/B/C-67A-S1	543423 EAMC-30-32-8-9	552157 EAMK-A-D40-44A/C
ERMB-32				
With servo motor				
EMMS-AS-70-...	543161 EAMM-A-D60-70A	529945 EAMF-A-64A/B-70A	543424 EAMC-42-50-11-12	552160 EAMK-A-D60-64B
EMME-AS-80-...	1977073 EAMM-A-D60-80P	1977113 EAMF-A-64A/C-80P	551005 EAMC-42-50-12-19	551007 EAMK-A-D60-64C
EMME-AS-100-...	550983 EAMM-A-D60-100A	529947 EAMF-A-64A/C/D-100A	551005 EAMC-42-50-12-19	551007 EAMK-A-D60-64C
EMMS-AS-100-...	550983 EAMM-A-D60-100A	529947 EAMF-A-64A/C/D-100A	551005 EAMC-42-50-12-19	551007 EAMK-A-D60-64C
With stepper motor				
EMMS-ST-87-...	543162 EAMM-A-D60-87A	533140 EAMF-A-64A/B-87A	543424 EAMC-42-50-11-12	552160 EAMK-A-D60-64B

1) The input torque must not exceed the maximum permissible transferable torque of the axial kit.

Rotary modules ERMB, electric

Accessories

FESTO

Permissible axis/motor combinations with axial kit – With gearbox				Technical data → Internet: eamm-a	
Motor ¹⁾	Gear unit	Axial kit	Axial kit comprises:		
			Motor flange	Coupling	Coupling housing
					
Type	Type	Part No. Type	Part No. Type	Part No. Type	Part No. Type
ERMB-20					
With motor unit					
EMCA-EC-67-...	EMGC-40-...	1454238 EAMM-A-D32-40G	1460095 EAMF-A-44C-40G-S	562681 EAMC-30-32-6-10	551006 EAMK-A-D32-44A/C
	EMGC-60-...	2946760 EAMM-A-D32-60H	1460105 EAMF-A-44C-60G/H-S1	1233256 EAMC-30-32-6-14	551006 EAMK-A-D32-44A/C
ERMB-25					
With servo motor					
EMME-AS-40-...	EMGA-40-P-G-...-EAS-40	560282 EAMM-A-D40-40G	550986 EAMF-A-44A/B-40G	558029 EAMC-30-32-8-10	552157 EAMK-A-D40-44A/C
EMMS-AS-40-...	EMGA-40-P-G-...-SAS-40	560282 EAMM-A-D40-40G	550986 EAMF-A-44A/B-40G	558029 EAMC-30-32-8-10	552157 EAMK-A-D40-44A/C
With stepper motor					
EMME-ST-42-...	EMGA-40-P-G-...-SST-42	560282 EAMM-A-D40-40G	550986 EAMF-A-44A/B-40G	558029 EAMC-30-32-8-10	552157 EAMK-A-D40-44A/C
With integrated drive					
EMCA-EC-67-...	EMGC-40-...	560282 ²⁾ EAMM-A-D40-40G	550986 EAMF-A-44A/B-40G	558029 EAMC-30-32-8-10	552157 EAMK-A-D40-44A/C
		2256398 EAMM-A-D40-40G-G2	1460095 EAMF-A-44C-40G-S	558029 EAMC-30-32-8-10	552157 EAMK-A-D40-44A/C
	EMGC-60-...	1454242 EAMM-A-D40-60H	1460105 EAMF-A-44C-60G/H-S1	562682 EAMC-30-32-8-14	552157 EAMK-A-D40-44A/C
ERMB-32					
With servo motor					
EMMS-AS-55-...	EMGA-60-P-G-...-SAS-55	560283 EAMM-A-D60-60G	550987 EAMF-A-64A/B-60G	543424 EAMC-42-50-11-12	552160 EAMK-A-D60-64B
EMMS-AS-70-...	EMGA-60-P-G-...-SAS-70	560283 EAMM-A-D60-60G	550987 EAMF-A-64A/B-60G	543424 EAMC-42-50-11-12	552160 EAMK-A-D60-64B
With stepper motor					
EMMS-ST-57-...	EMGA-60-P-G-...-SST-57	560283 EAMM-A-D60-60G	550987 EAMF-A-64A/B-60G	543424 EAMC-42-50-11-12	552160 EAMK-A-D60-64B
With integrated drive					
EMCA-EC-67-...	EMGC-60-...	1454245 EAMM-A-D60-60H	2256289 EAMF-A-64B-60G/H-S1	1455671 EAMC-42-50-12-14	552160 EAMK-A-D60-64B

1) The input torque must not exceed the maximum permissible transferable torque of the axial kit.

2) Type to be discontinued



Note

Note the maximum permissible driving torque of the ERMB.

The motor current may need to be limited.

Rotary modules ERMB, electric

FESTO

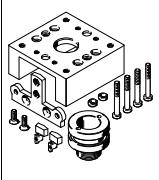
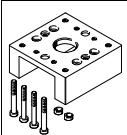
Accessories

Ordering data – Centring sleeves

	For size	Brief description	Number	Part No.	Type	PU ¹⁾
	20	For centring loads and attachments (centring sleeves are included in the scope of delivery of the rotary module)	2	186717	ZBH-7	10
	25, 32		2	150927	ZBH-9	
			4			

1) Packaging unit

Ordering data

	For size	Brief description	Weight [g]	Part No.	Type	PU ¹⁾
Sensing kit EAPS-...-S						
	20	Kit with housing (trip cam support, 2 cams, sensor bracket)	258	558392	EAPS-R1-20-S	1
	25		406	558393	EAPS-R1-25-S	
	32		560	558394	EAPS-R1-32-S	
Sensing kit without housing EAPS-...-S-WH						
	20	Kit without housing (trip cam support, 2 cams, sensor bracket)	86	558395	EAPS-R1-20-S-WH	1
	25		90	558396	EAPS-R1-25-S-WH	
	32		136	558397	EAPS-R1-32-S-WH	
Cam EAPS-...-CK						
	20, 25, 32	For sensing positions (2 cams included in the scope of delivery)	5 each	558398	EAPS-R1-CK	2
Sensor bracket EAPS-...-SH						
	20, 25	For attaching proximity sensors to the rotary module	24	558399	EAPS-R1-20-SH	1
	32		30	558400	EAPS-R1-32-SH	
Housing EAPS-...-H						
	20	For protecting the sensing kit and as mounting interface for the drive	172	560673	EAPS-R1-20-H	1
	25		316	560674	EAPS-R1-25-H	
	32		424	560675	EAPS-R1-32-H	

Ordering data – Proximity sensor, inductive

Technical data → Internet: sien

	Contact	Connection	Part No.	Type
	N/O contact	Cable, 2.5 m	150386	SIEN-M8B-PS-K-L
		Plug connector	150387	SIEN-M8B-PS-S-L
	N/C contact	Cable, 2.5 m	150390	SIEN-M8B-PO-K-L
		Plug connector	150391	SIEN-M8B-PO-S-L

Ordering data – Connecting cables

Technical data → Internet: nebu

	Electrical connection, left	Electrical connection, right	Cable length [m]	Part No.	Type
	Straight socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541333	NEBU-M8G3-K-2.5-LE3
			5	541334	NEBU-M8G3-K-5-LE3

Rotary modules ERMB, electric

Accessories

FESTO

Adapter kit HAPB, HMSV

Materials:

Wrought aluminium alloy
Free of copper and PTFE
RoHS compliant



Note

The kit includes the individual mounting interface as well as the necessary mounting material.

Permissible drive/drive combinations with adapter kit				Download CAD data → www.festo.com	
Combination	[1] Drive	[2] Drive	Adapter kit	Part No.	Type
D GSL/ERMB	D GSL	ERMB	HAPB		
	16, 20, 25	20	2	558306	HAPB-38
	20, 25	25		558307	HAPB-39
	25	32		558308	HAPB-40
SLT/ERMB	SLT	ERMB	HAPB		
	20	20	2	558306	HAPB-38
	25	25		558307	HAPB-39
EGSL/ERMB	EGSL	ERMB	HAPB		
	45, 55, 75	20	2	558306	HAPB-38
	75	25		558307	HAPB-39
	75	32		558308	HAPB-40
D GEA/ERMB	D GEA	ERMB	HAPB		
	18, 25	20	2	558306	HAPB-38
	25, 40	25		558307	HAPB-39
	40	32		558308	HAPB-40

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.