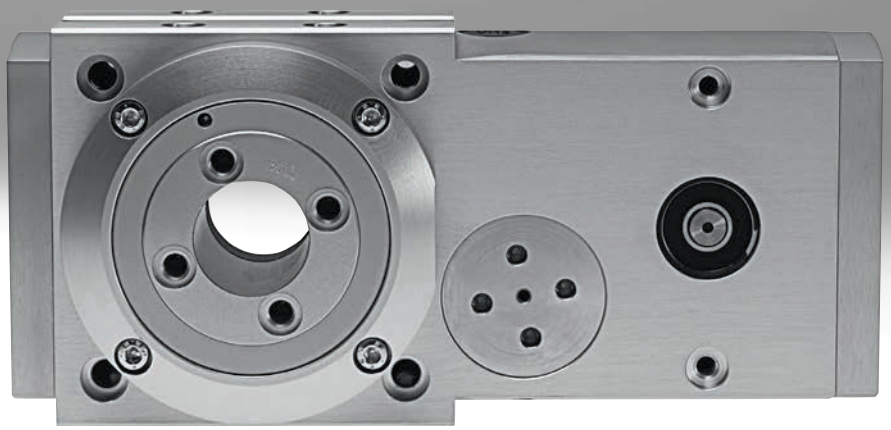
Rotary modules ERMB, electric



Characteristics

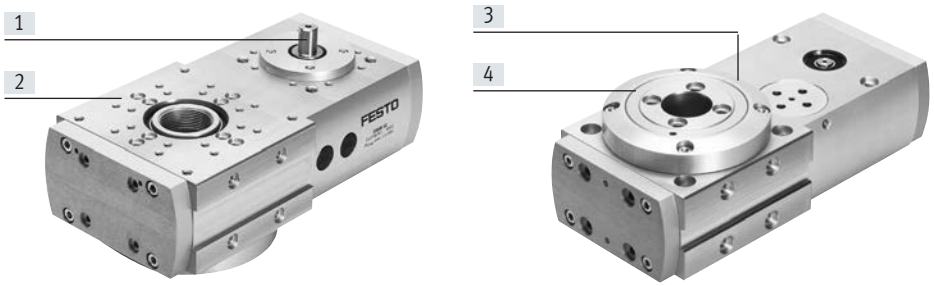
At a glance

The rotary module ERMB facilitates unlimited and flexible rotation angles.
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 with the motor, via axial kit
[2] Interface for mounting
[3] Mounting for proximity switches SIEN in the retaining ring
[4] Output interface

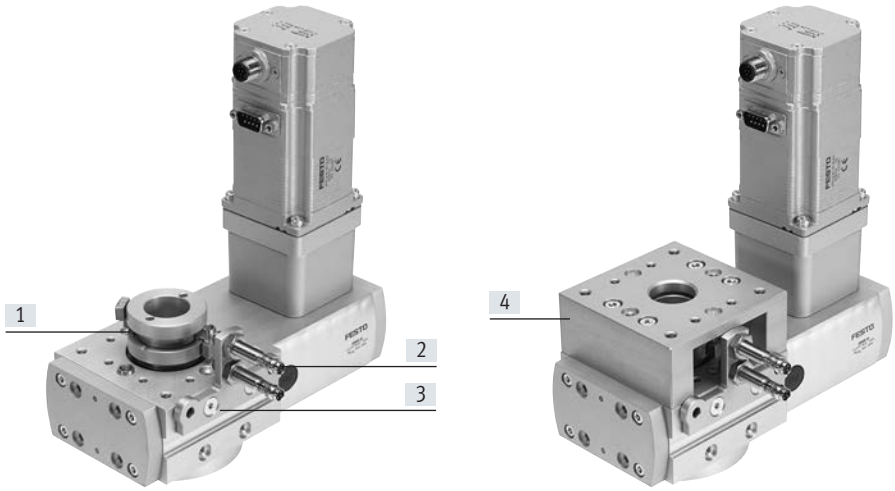


Sensing kit EAPS as an accessory

→ Page 23

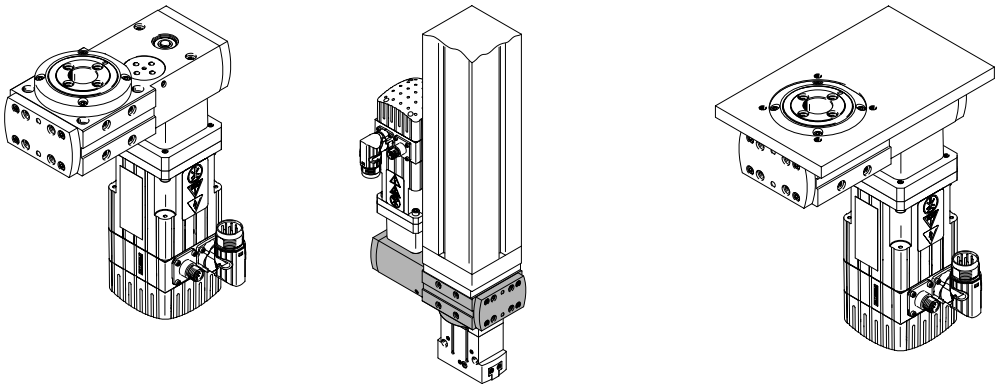
With the sensing kit, the angle of rotation can be monitored using adjustable cams. The kit can also be used for reference checking.

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



Mounting and installation options

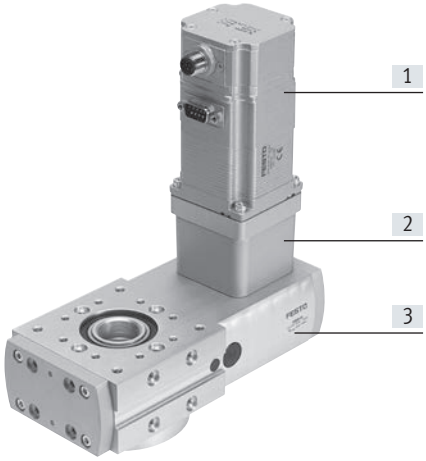
Mounting option	Installation option	
The rotary module can be mounted on 6 sides.	As a front unit	As a rotary table in a plate



Characteristics

Total system comprising rotary module, motor and axial kit

Rotary module → Page 6



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

Motors → Page 18



- Servo motor EMME-AS, EMMS-AS
- Stepper motor EMMS-ST
- Integrated drive EMCA

Note

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

Motor controllers Data sheets → Internet: motor controller



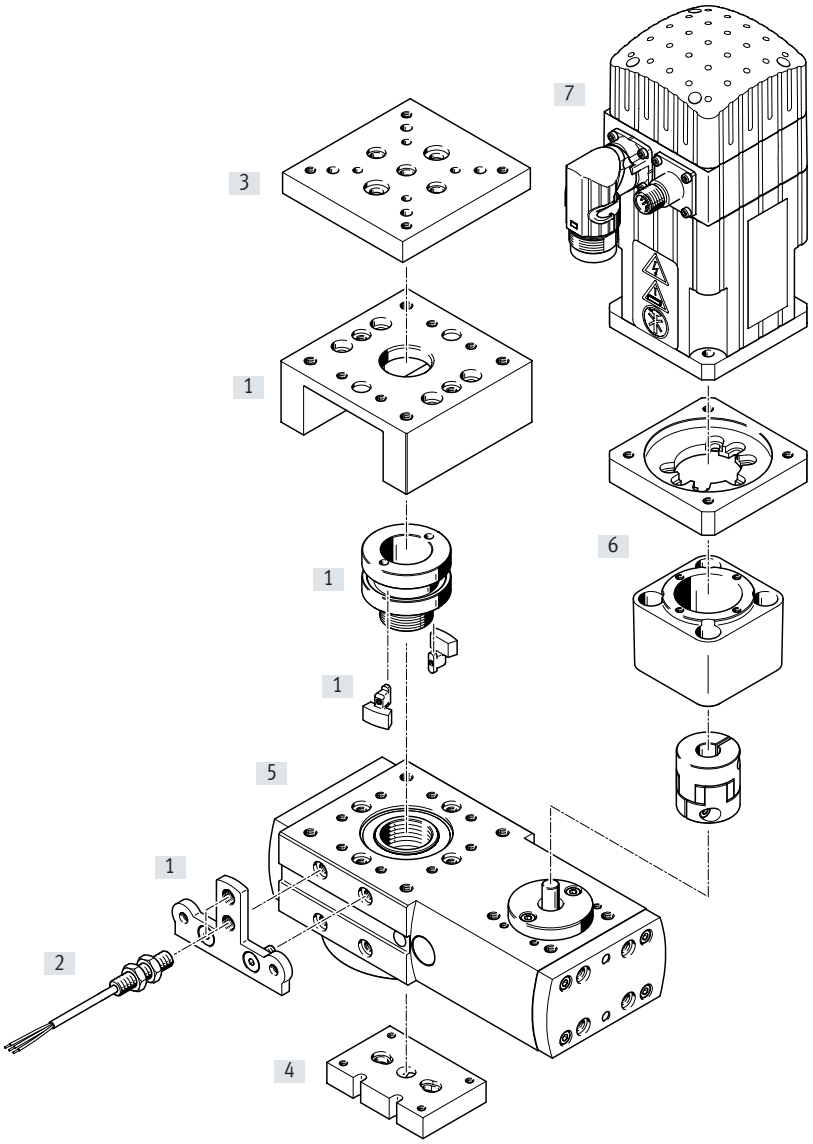
- Servo motor controller CMMP-AS
- Stepper motor controller CMMT-ST

Axial kit → Page 18



Kit comprising:
- Motor flange
- Coupling housing
- Coupling
- Screws

Peripherals overview



Peripherals overview and type codes

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 switches (comprising: housing, trip cam support, 2 cams and sensor bracket)	23
[2]	Proximity switch SIEN	For use as a signal or safety check	23
[3]	Adapter kit	Interface between the rotary module and drive (the rotary module can be mounted on 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	23
[6]	Axial kit EAMM-A	For axial motor mounting (consisting of: coupling, coupling housing and motor flange)	18
[7]	Motor EMMS, EMME, EMCA	• Motors specially matched to the axis, with or without brake • The motor can be turned 90° when mounting, depending on the requirement. This means the connection side can be freely selected	18

Type codes

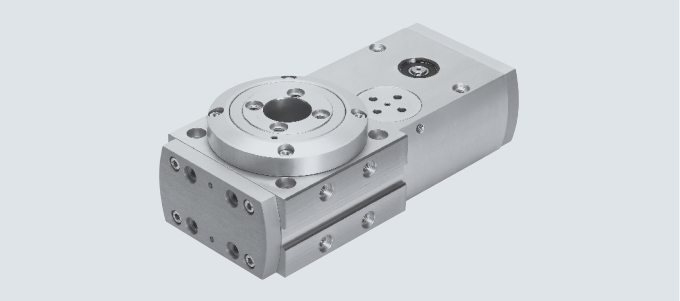
001	Series	
ERMB	Rotary module	

002	Size	
20	20	
25	25	
32	32	

Data sheet

Size
20, 25, 32

www.festo.com



General technical data				
Size		20	25	32
Design		Electromechanical rotary module with toothed belt		
Drive pinion diameter	[mm]	6	8	12
Rotation angle		Infinite		
Repetition accuracy[1]				
with servo motor EMMT-AS, 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 switch		
Mounting 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 diameter	[mm]	20	24	28

1) Output torque minus friction is dependent on rotational 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 CRC[1]		2		
Sound pressure level[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 can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.
2) In combination with servo motor EMMS-AS

Data sheet

Mechanical data				
Size		20	25	32
Max. mass moment of inertia[1]	[kgcm²]	1000	5000	10000
Max. inertia factor[2]				
for servo motor EMMT-AS/EMME-AS		45		
for stepper motor EMMS-ST		30		
for integrated drive EMCA		16		

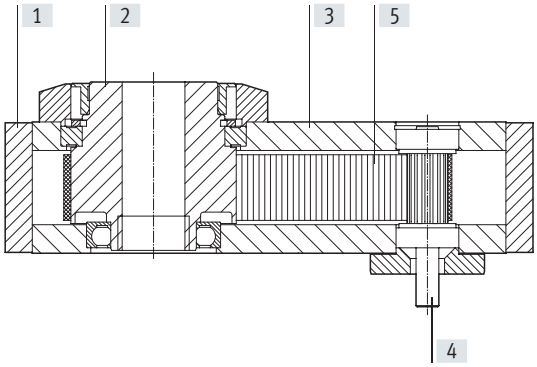
1) These values specify the upper limit independently of what is determined using the inertia factor.
2) The inertia factor represents the maximum controllable ratio between the inertia of the load and the intrinsic inertia of the motor with brake.

Example:
Rotary lifting module ERMB-20 ➔ transmission ratio i = 4.5
Motor EMME-AS-40-S with brake ➔ intrinsic inertia 0.055 kgcm²
Gear unit EMGA-40-P-G3-40 ➔ transmission ratio i = 3

Limit for inertia of the load (+ intrinsic inertia) on the output side:
$0.055\ kgcm^2 \times 45 \times 3^2 \times 4.5^2 = 451\ kgcm^2$

Materials

Sectional view

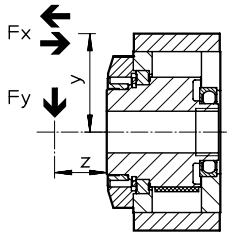


Rotary module		
[1]	Cover	Anodised aluminium
[2]	Output shaft	Anodised wrought aluminium alloy
[3]	Housing	Anodised wrought aluminium alloy
[4]	Drive shaft	High-alloy stainless steel
[5]	Toothed belt	Polychloroprene with glass fibre
	Note on materials	Contains paint-wetting impairment substances

Data sheet

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

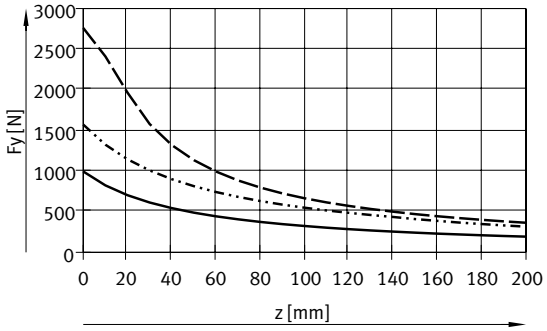
If the rotary module is simultaneously subjected to several forces, the following equation must be satisfied in addition to the maximum loads indicated below.



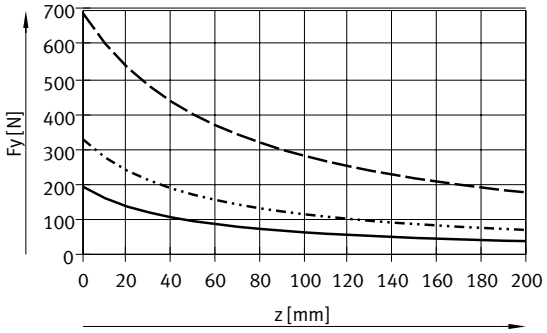
$$\frac{F_{y\,(z)}}{F_{y\,max.\,(z)}} + \frac{F1_{x\,(v)}}{F1_{x\,max.\,(v)}} + \frac{F2_{x\,(v)}}{F2_{x\,max.\,(v)}} \leq 1$$

F1x = pushing
F2x = pulling

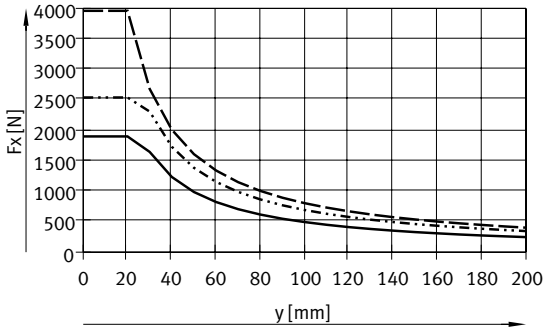
Max. radial force Fy, static



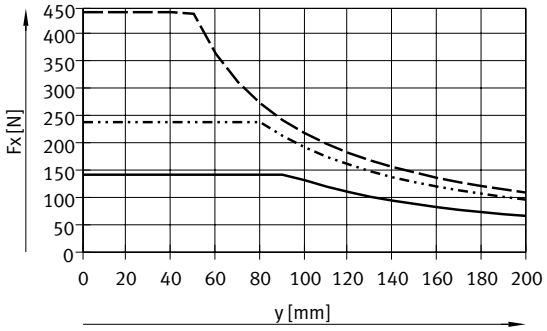
Max. radial force Fy, dynamic



Max. axial force Fx, static, pushing and pulling



Max. axial force Fx, dynamic, pushing and pulling



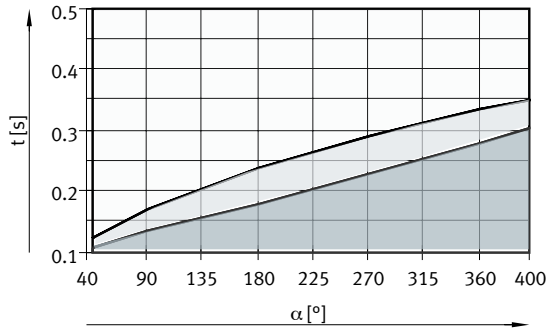
ERMB-20
ERMB-25
ERMB-32

Data sheet

Positioning time t as a function of the rotation angle á

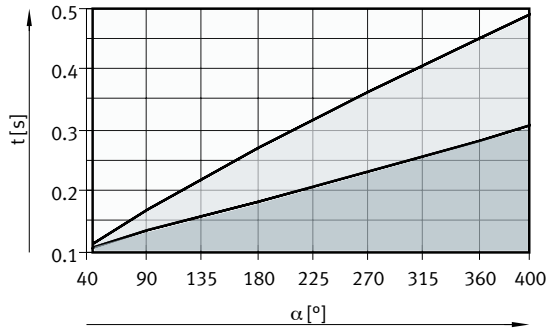
Size 20

With servo motor EMMS-AS



Extended operating range
Typical operating range, depending on the size of the motor and the inertia of the load
Non-viable range

With stepper motor EMMS-ST



Extended operating range
Typical operating range, depending on the size of the motor and the inertia of the load
Non-viable 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.

For servo motor: 50 ... 100 ms

For stepper motor: 100 ... 200 ms

The engineering software "Electric Motion Sizing" compiles the optimum combination of rotary module and motor according to the application with regard to mass moment of inertia, positioning time, and positioning accuracy

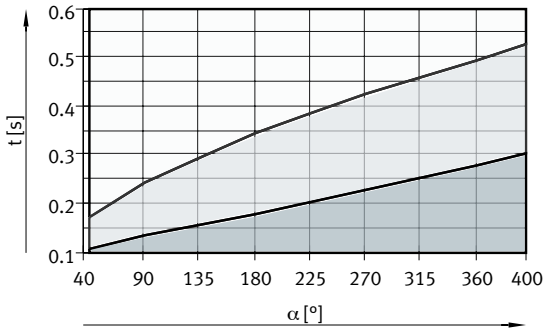
➔ www.festo.com/x/electric-motion-sizing

Data sheet

Positioning time t as a function of the rotation angle α

Size 25

With servo motor EMMS-AS

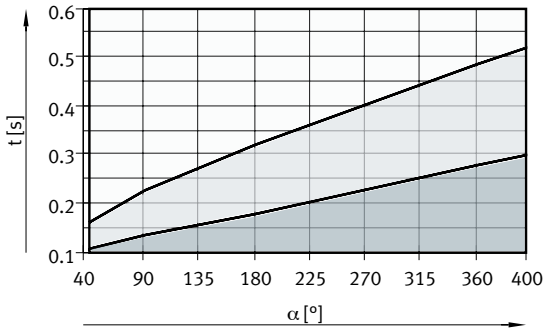


Extended operating range

Typical operating range, depending on the size of the motor and the inertia of the load

Non-viable range

With stepper motor EMMS-ST



Extended operating range

Typical operating range, depending on the size of the motor and the inertia of the load

Non-viable 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.

For servo motor: 50 ... 100 ms

For stepper motor: 100 ... 200 ms

The engineering software "Electric Motion Sizing" compiles the optimum combination of rotary module and motor according to the application with regard to mass moment of inertia, positioning time, and positioning accuracy

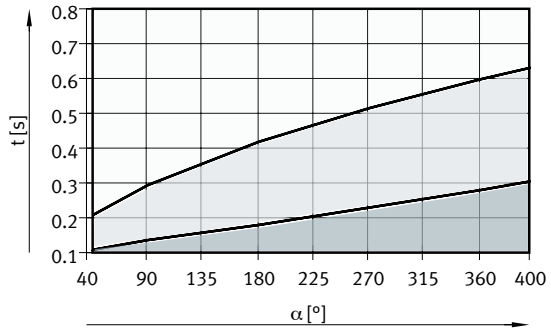
➔ www.festo.com/x/electric-motion-sizing

Data sheet

Positioning time t as a function of the rotation angle á

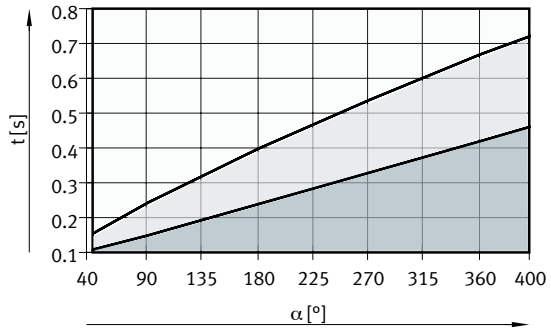
Size 32

With servo motor EMMS-AS



Extended operating range
Typical operating range, depending on the size of the motor and the inertia of the load
Non-viable range

With stepper motor EMMS-ST



Extended operating range
Typical operating range, depending on the size of the motor and the inertia of the load
Non-viable 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.

For servo motor: 50 ... 100 ms

For stepper motor: 100 ... 200 ms

The engineering software "Electric Motion Sizing" compiles the optimum combination of rotary module and motor according to the application with regard to mass moment of inertia, positioning time, and positioning accuracy

➔ www.festo.com/x/electric-motion-sizing

Data sheet

Information on service life values

Within the scope of the product qualification, the specified static stress cycles/ switching cycles were 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.

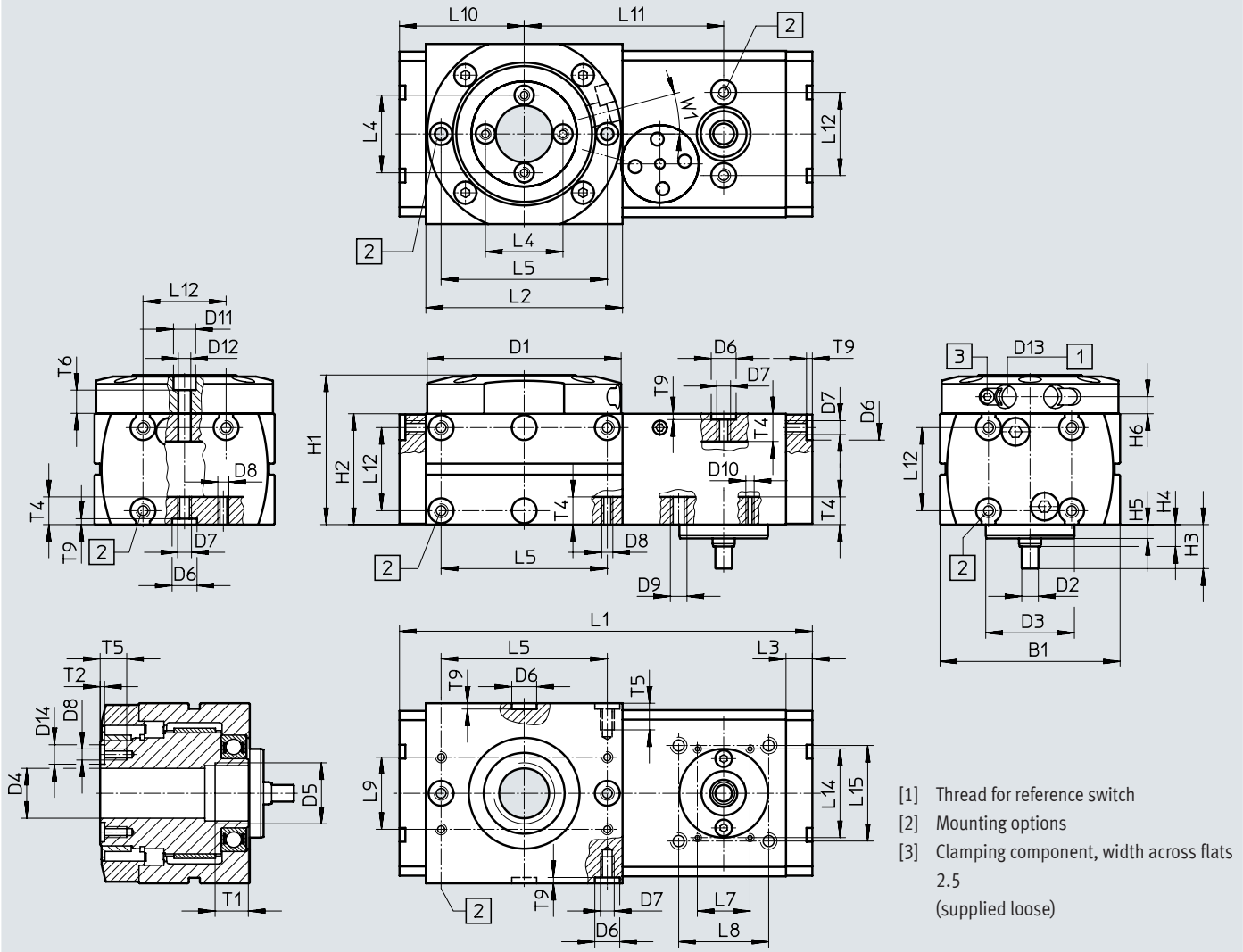
Size		20	25	32
Stress cycle reference value	[million]	30	40	40
Switching cycle reference value	[million]	15	20	20
Mass moment of inertia on output	[kgcm^2]	24	80	400
Average angular acceleration on output	[°/sec^2]	28000	20000	12000
Maximum angular velocity on output	[°/sec]	1800	1800	1800

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.

Data sheet

Dimensions Download CAD data ➔ www.festo.com

Size 20



[1] Thread for reference switch
[2] Mounting options
[3] Clamping component, width across flats 2.5
(supplied loose)

Size	B1	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13
		ø	ø	ø	ø		ø					ø	ø	
	±0.2	f9	h6	g7	H7		H7							
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
	ø													
	H7	±0.5	±0.1					±0.5	±0.2	±0.1			±0.15	±0.15
20	7	54	40	15.9	7.9	5	6.15	149	71	9.5	28	60	19	32.5

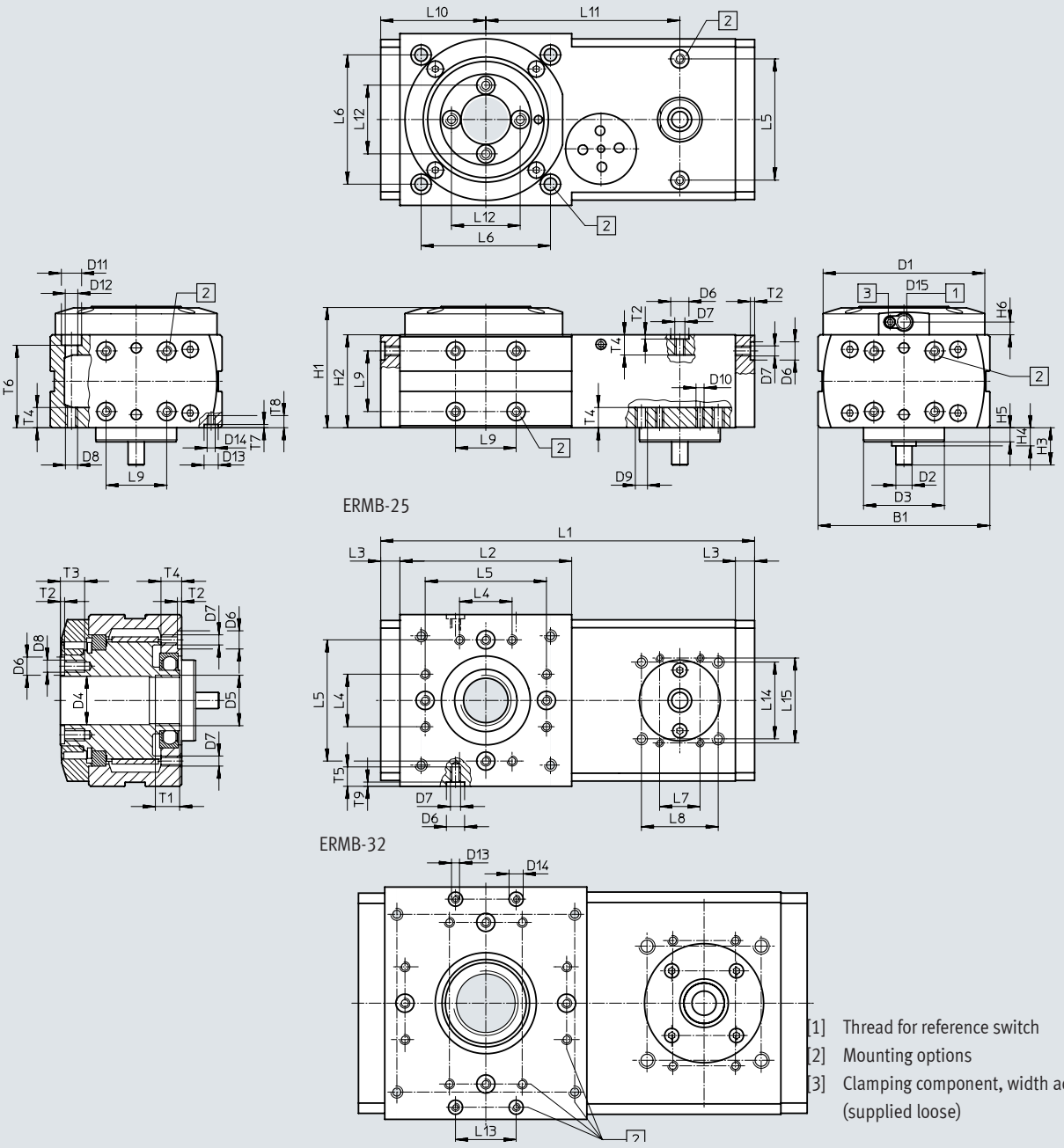
Size	L9[1]	L10	L11	L12[1]	L14	L15	T1	T2	T4	T5	T6	T9	W1
			±0.05		±0.15	±0.15		+0.1		min		+0.2	
20	26	45	72	30	32	32.5	12	1.6	10	9.6	8.4	2.1	15°

1) Tolerance for centring hole ±0.02 mm
Tolerance for thread ±0.1 mm

Data sheet

Dimensions Download CAD data ➔ www.festo.com

Size 25/32



[1] Thread for reference switch
[2] Mounting options
[3] Clamping component, width across flats 2.5 (supplied loose)

Data sheet

Size	B1 ±0.2	D1 ø f9	D2 ø h6	D3 ø g7	D4 ø H7	D5	D6 ø 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 ø	D12 ø	D13 ø 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 ±0.15	L8 ±0.15	L9[1)] ±0.1	L10	L11 ±0.05	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

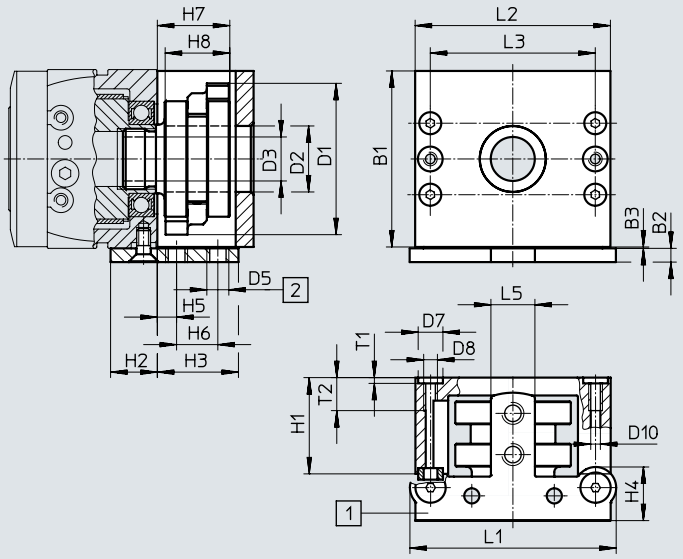
Size	L14 ±0.15	L15 ±0.15	L16 +0.2	T1	T2 +0.1	T3 min	T4	T5 min	T6	T7 +0.1	T8 min	T9 +0.2
25	38	42	–	12	2.1	12	10	9.6	40.8±0.2	–	–	2.1
32	56.5	62	103	12	2.1	12	10	10	54.3	1.6	7.6	2.1

1) Tolerance for centring hole ±0.02 mm
Tolerance for thread ±0.1 mm

Data sheet

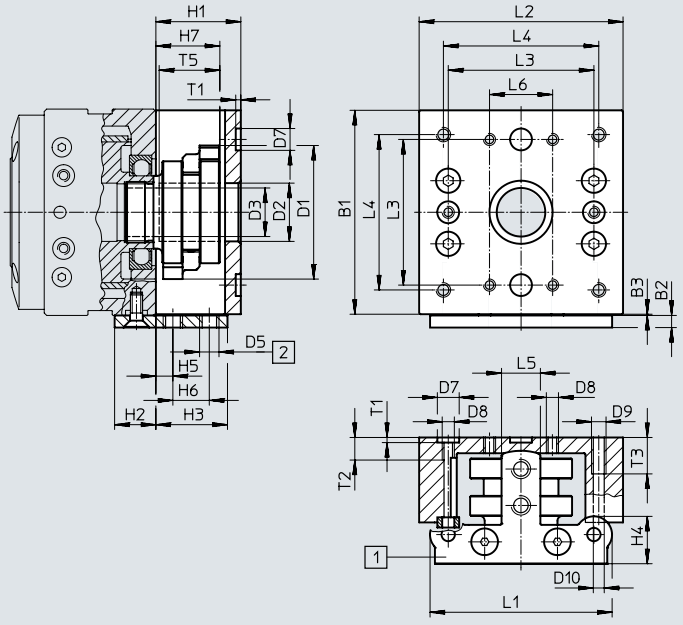
Dimensions Download CAD data ➔ www.festo.com

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



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

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

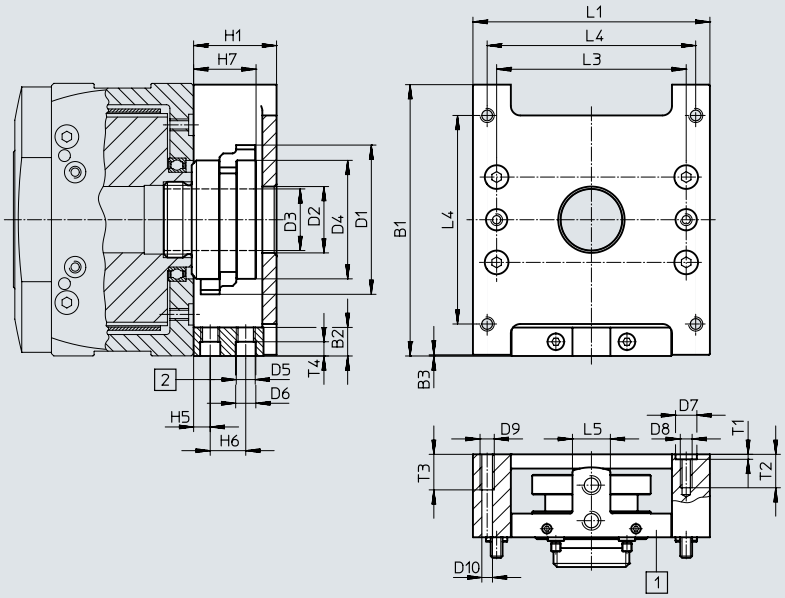


* Tolerance between the centring holes ±0.02 mm
[1] Sensor bracket for proximity switches SIEN-M8B
[2] Thread for proximity switch SIEN-M8B

Data sheet

Dimensions Download CAD data ➔ www.festo.com

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



* Tolerance between the centring holes ±0.02 mm

[1] Sensor bracket for proximity switches SIEN-M8B

[2] Thread for proximity switch SIEN-M8B

Size	B1	B2	B3	D1 Ø	D2 Ø	D3 Ø	D4 Ø	D5	D6 Ø	D7 Ø H7
20	64	5	0.5	55	24	16	–	M8x1	–	9
25	84	5	0.5	55	24	20	–	M8x1	–	9
32	114.5	12	0.5	63	28	26	50	M8x1	8.5	9

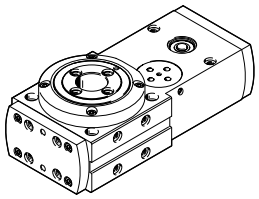
Size	D8	D9	D10 Ø	H1	H2	H3	H4	H5	H6	H7
20	M5	–	4.2	35	17	29.5	19.5	7	15	26.35
25	M5	M6	5.2	35	17	29.5	19.5	7	15	26.35
32	M5	M6	5.2	35	–	–	–	7	15	26.35

Size	H8	L1	L2	L3[1)]	L4 ±0.1	L5 ±0.1	T1 ±0.1	T2	T3	T4	T5
20	23.5	75	71	60	–	16	2.1	12	–	–	–
25	–	75	84	60	–	16	2.1	9.3	15	–	25
32	–	100	–	80	88	16	2.1	14.1	15	6	–

1) Tolerance for centring hole ±0.02 mm
Tolerance for thread ±0.1 mm

Data sheet and accessories

Ordering data

	Size	Part no.	Type
	20	**552706**	**ERMB-20**
	25	**552707**	**ERMB-25**
	32	**552708**	**ERMB-32**

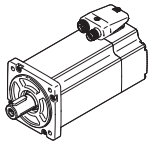
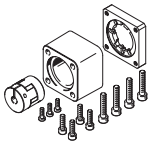
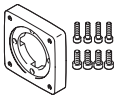
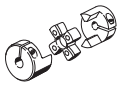
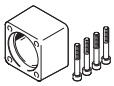
Accessories

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

Data sheets → Internet: eamm-a

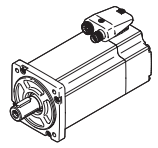
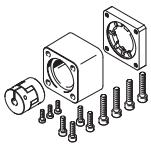
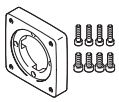
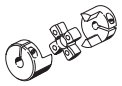
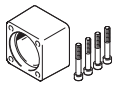
Motor[1]	Axial kit	Axial kit comprises:		
		Motor flange	Coupling	Coupling housing
				
Type	Part no. Type	Part no. Type	Part no. Type	Part no. Type
ERMB-20				
With servo motor				
EMME-AS-40-...	**2207441** **EAMM-A-D32-35A-40P**	**–**	**533708** **EAMC-30-32-6-8**	**2207509** **EAMK-A-D32-35A-40P**
EMMT-AS-60-..., EMME-AS-60-...	**1956054** **EAMM-A-D32-60P**	**1956846** **EAMF-A-44C-60P**	**1233256** **EAMC-30-32-6-14**	**551006** **EAMK-A-D32-44A/C**
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.

Accessories

Permissible axis/motor combinations with axial kit – Without gear unit

Data sheets → Internet: eamm-a

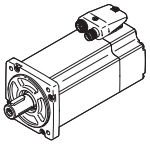
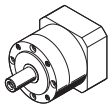
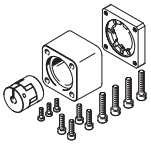
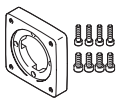
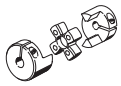
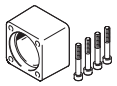
Motor[1]	Axial kit	Axial kit comprises:		
		Motor flange	Coupling	Coupling housing
				
Type	Part no. Type	Part no. Type	Part no. Type	Part no. Type
ERMB-25				
With servo motor				
EMMT-AS-60-..., EMME-AS-60-...	**1977000** **EAMM-A-D40-60P**	**1956846** **EAMF-A-44C-60P**	**562682** **EAMC-30-32-8-14**	**552157** **EAMK-A-D40-44A/C**
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**
EMMS-ST-87-...	**550982** **EAMM-A-D40-87A**	**530082** **EAMF-A-44A/B-87A**	**551004** **EAMC-30-32-8-11**	**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				
EMMT-AS-80-..., 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**
EMMT-AS-100-..., 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**
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.

Accessories

Permissible axis/motor combinations with axial kit – With gear unit

Data sheets → Internet: eamm-a

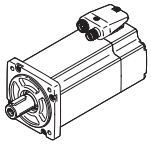
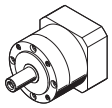
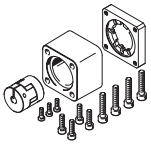
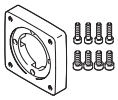
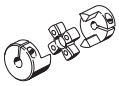
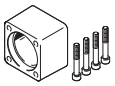
Motor[1]	Gear unit	Axial kit	Axial kit comprises:		
			Motor flange	Coupling	Coupling housing
					
Type	Type	Part no. Type	Part no. Type	Part no. Type	Part no. Type
ERMB-20					
With servo motor					
EMME-AS-40-...	**EMGA-40-P-G...-EAS-40**	**1454238** **EAMM-A-D32-40G**	**1460095** **EAMF-A-44C-40G-S1**	**562681** **EAMC-30-32-6-10**	**551006** **EAMK-A-D32-44A/C**
EMMT-AS-60-..., **EMME-AS-60-...**	**EMGA-60-P-G...-EAS-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**
With stepper motor					
EMMS-ST-42-...	**EMGA-40-P-G...-SST-42**	**1454238** **EAMM-A-D32-40G**	**1460095** **EAMF-A-44C-40G-S1**	**562681** **EAMC-30-32-6-10**	**551006** **EAMK-A-D32-44A/C**
EMMS-ST-57-...	**EMGA-60-P-G...-SST-57**	**2946758** **EAMM-A-D32-60G**	**1460105** **EAMF-A-44C-60G/H-S1**	**3187577** **EAMC-30-32-6-11**	**551006** **EAMK-A-D32-44A/C**
With integrated drive					
EMCA-EC-67-...	**EMGC-40-...**	**1454238** **EAMM-A-D32-40G**	**1460095** **EAMF-A-44C-40G-S1**	**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**

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

Accessories

Permissible axis/motor combinations with axial kit – With gear unit

Data sheets → 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-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**
		2256398 **EAMM-A-D40-40G-G2[2]**	**1460095** **EAMF-A-44C-40G-S1**	**558029** **EAMC-30-32-8-10**	**552157** **EAMK-A-D40-44A/C**
EMMT-AS-60-..., **EMME-AS-60-...**	**EMGA-60-P-G...-EAS-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**
With stepper motor					
EMMS-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**
EMMS-ST-57-...	**EMGA-60-P-G...-SST-57**	**2256400** **EAMM-A-D40-60G**	**1460105** **EAMF-A-44C-60G/H-S1**	**551004** **EAMC-30-32-8-11**	**552157** **EAMK-A-D40-44A/C**
With integrated drive					
EMCA-EC-67-...	**EMGC-40-...**	**560282** **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[2]**	**1460095** **EAMF-A-44C-40G-S1**	**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**

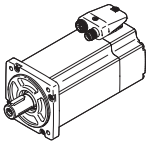
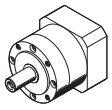
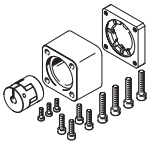
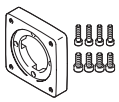
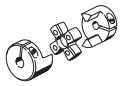
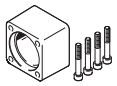
1) The input torque must not exceed the maximum permissible transferable torque of the axial kit.

2) The axial kit can be retrofitted from IP40 to IP65 with the help of a seal set EADS-F. Additional information → eamm-a

Accessories

Permissible axis/motor combinations with axial kit – With gear unit

Data sheets → 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-32					
With servo motor					
EMMT-AS-60-..., EMME-AS-60-...	**EMGA-60-P-G...-EAS-60**	**1454245 EAMM-A-D60-60H**	**2256289 EAMF-A-64B-60G/H-S1**	**1455671 EAMC-42-50-12-14**	**552160 EAMK-A-D60-64B**
EMMT-AS-80-..., EMME-AS-80-...	**EMGA-80-P-G...-EAS-80**	**1499402 EAMM-A-D60-80G**	**2843290 EAMF-A-64C-80G-S1**	**2138701 EAMC-42-50-12-20**	**551007 EAMK-A-D60-64C**
EMMT-AS-100-..., EMME-AS-100-...	**EMGA-80-P-G...-SAS-100**	**1499402 EAMM-A-D60-80G**	**2843290 EAMF-A-64C-80G-S1**	**2138701 EAMC-42-50-12-20**	**551007 EAMK-A-D60-64C**
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**
		2256696 EAMM-A-D60-60G-G2[2]	**2256289 EAMF-A-64B-60G/H-S1**	**543424 EAMC-42-50-11-12**	**552160 EAMK-A-D60-64B**
EMMS-ST-87-...	**EMGA-80-P-G...-SST-87**	**1499402 EAMM-A-D60-80G**	**2843290 EAMF-A-64C-80G-S1**	**2138701 EAMC-42-50-12-20**	**551007 EAMK-A-D60-64C**
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) The axial kit can be retrofitted from IP40 to IP65 with the help of a seal set EADS-F. Additional information → eamm-a

Note

Note the maximum permissible driving torque of the ERMB.

The motor current may need to be limited.

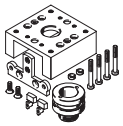
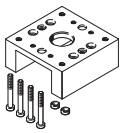
Accessories

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	**8146544**	**ZBH-7-B**	10
	25, 32		2	**8137184**	**ZBH-9-B**	
			4			

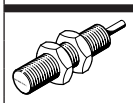
1) Packaging unit

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 mounting proximity switches on 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 switches, inductive

Data sheets → Internet: sien

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

Ordering data – Connecting cables

Data sheets → 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**

Accessories

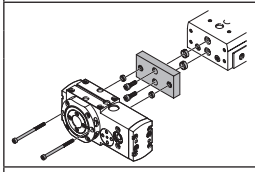
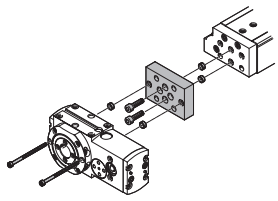
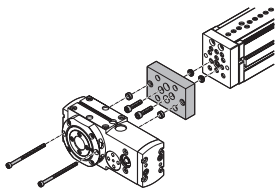
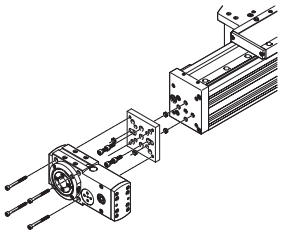
Adapter kit
HAPB

Material:
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 Size	[2] Drive Size	Adapter kit CRC[1]	Part no.	Type
DGST/ERMB	**DGST**	**ERMB**	**DHAA**		
	20	20	2	**8162108**	**DHAA-D-G8-20-R1-20**
	25	25		**8162109**	**DHAA-D-G8-25-R1-25**
DGSL/ERMB	**DGSL**	**ERMB**	**HAPB**		
	16, 20, 25	20	2	**558306**	**HAPB-38**
	20, 25	25		**558307**	**HAPB-39**
	25	32		**558308**	**HAPB-40**
EGSL/ERMB	**EGSL**	**ERMB**	**HAPB**		
	45, 55, 75	20	2	**558306**	**HAPB-38**
	75	25		**558307**	**HAPB-39**
	75	32		**558308**	**HAPB-40**
ELCC/ERMB	**ELCC**	**ERMB**	**HAPB**		
	60, 70	20	2	**558306**	**HAPB-38**
	70, 90	25		**558307**	**HAPB-39**
	90, 110	32		**558308**	**HAPB-40**

1) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

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153269 DSBC-32-50-D3-PPVA-N3 SNC-63 VMPA2-M1BH-J-PI NPQP-LQ-R18-Q8-FD-P10 NPQP-T-Q8-E-FD-P10 NPQP-Y-R12-Q12-FD MSFW-110-50/60-DS NPQP-Y-Q6-E-FD-P10 NPQR-Y-Q4-E PUN-H-4X0,75-TBL QS-1/2-16 SPTE-V1R-Q3-V-2.5K VABM-L1-18W-G38-8-G DFM-63-100-P-A-KF DSBC-50-20-D3-PPSA-N3 DSBC-80-250-D3-PPSA-N3 DSBC-80-320-D3-PPVA-N3 NPQH-T-Q14-E-P10 QSML-6 DSBC-63-320-D3-PPVA-N3 DSNU-12-60-P-A NPQP-LQ-R18-Q4-FD-P10 DSBC-32-40-D3-PPVA-N3 NPQH-T-G38-Q8-P10 NPQP-D-Q4-S8-FD-P10 VBQF-U-G14-E CRVZS-0.4 NPQP-L-Q10-E-FD-P10 QSS-8-F